FONF EXPANSION/SABRE PARK BCP

TOWN OF NIAGARA, NEW YORK

Alternative Analysis Report

NYSDEC BCP Number: C932162

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CERTIFICATION

I Joel Landes certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Alternatives Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

NYS Professional Engineer #	Date	Signature
	10/9/13	

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

ALTERNATIVES ANALYSIS REPORT

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LIST OF ACRONYMS

Acronym	Definition
AAR	Alternatives Analysis Report
AOC	Area of Concern
AWQS/GV	Ambient Water Quality Standards/Guidance Values
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
COC	Contaminant of Concern
DER	Department of Environmental Remediation
EC/IC	Engineering Control / Institutional Control
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
ESI	Environmental Site Investigation
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
HAZWOPER	Hazardous Waste Operations Emergency Response
IHWDS	Inactive Hazardous Waste Disposal Site
IRM	Interim Remedial Measures
IRMWP	Interim Remedial Measures Work Plan
NAVD	North American Vertical Datum
NWI	National Wetlands Inventory
NYCRR	New York Codes Rules and Regulations
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
O&M	Operations & Maintenance
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photoionization Detector

Acronym	Definition
QEP	Qualified Environmental Professional
RAOs	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
SCOs	Soil Cleanup Objectives
SCGs	Standards, Criteria and Guidance
SEQR EAF	State Environmental Quality Review Environmental Assessment Form
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
TOGS	Technical & Operational Guidance Series
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
XRF	X-Ray Fluorescence

ALTERNATIVES ANALYSIS REPORT

1.0 INTRODUCTION

This Alternatives Analysis Report (AAR) was prepared by Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C. (Langan) on behalf of Fashion Outlets II, LLC (FO II, LLC) and Macerich-Niagara, LLC (collectively "Macerich" for the purpose of this report). Macerich has entered into the Brownfield Cleanup Program (BCP No. C932162) with the New York State Department of Environmental Conservation (NYSDEC) as a "Volunteer", to investigate and, where necessary, remediate contaminated soil, groundwater, and soil gas encountered during expansion of the approximate 47.8-acre Fashion Outlets of Niagara Falls mall (the Site). Macerich is proposing a 225,000 square foot expansion that would include 175,000 square feet of new enclosed gross leasable area to the existing mall. The expansion would include 50 new stores and dedicated public common space, additional asphalt paved parking areas, stormwater detention ponds, and landscaped areas. The Remedial Investigation (RI) was conducted by Langan between 23 June 2013 and 3 July 2013, and the results of the investigation are described in detail in the Remedial Investigation Report (RIR) dated 16 August 2013, prepared by Langan.

The objective of this AAR is to identify one or more alternatives that address the contaminants of concern (COCs) present at the Site and evaluate the effectiveness of each with respect to Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10: Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

1.1 SITE LOCATION AND DESCRIPTION

The Site subject to the Brownfield Cleanup Agreement (BCA), encompasses approximately 47.8-acres within the Town of Niagara and includes the following parcels:

- ±34-acres former Sabre Park Mobile Home Community located at 1705 Factory Outlet Boulevard (a/k/a Fashion Outlet Boulevard, a/k/a Third Avenue Extension, a/k/a Connection Boulevard - Assessor's Parcel Numbers 160.08-1-2, 160.08-1-6 and 160.08-1-7);

- ±10.35-acre parcel located on the southern portion of the larger approximately ±41.3-acre Fashion Outlets of Niagara Falls (Fashion Outlets) property located at 1900 Military Road, (specifically, a portion of Assessor's Parcel Number 145.20-1-15); and,

- ±3.45-acres on the western side of the Site located at 1755 Factory Outlet Boulevard (a/k/a Fashion Outlet Boulevard, a/k/a Third Avenue Extension, a/k/a Connection Boulevard - Assessor's Parcel Number 160.08-1-1).

A metes and bounds description of the Site is included in Appendix A and a Site Location Map is provided as Figure 1 in Appendix B.

The Sabre Park parcel was previously occupied by 278 mobile home lots from approximately 1972 to 2013. Demolition of the trailers commenced in March 2013 and is expected to be completed by September 2013. The majority of the Site currently consists of asphalt/gravel parking areas, asphalt driveways, and vegetated areas. The Fashion Outlets parcel consists of an asphalt parking lot and associated roadways. The parcel located at 1755 Factory Outlet Boulevard is currently improved with a Secure Storage facility and associated asphalt parking.

The Site is bounded by Factory Outlet Boulevard/Route 190 to the west/northwest, the existing Fashion Outlets of Niagara Falls to the east, and National Grid power lines to the south. A site plan depicting the existing conditions is provided as Figure 2 of the RIR, included in Appendix B.

1.2 PROPOSED REDEVELOPMENT PLAN

The 225,000 square foot expansion will include 175,000 square feet of additional enclosed gross leasable area to the existing Fashion Outlets of Niagara Falls mall, which will accommodate 50 new stores and dedicated public common space. The expansion will include an additional 1,720,000 square feet of asphalt paved parking areas, 225,000 square feet of clay lined stormwater detention ponds, and 273,750 square feet of landscaping.

The Secure Storage facility currently located on the Site would be demolished and reconstructed in the southwest corner of the Site. A site plan depicting the proposed development is provided as Figure 3 of the RIR, included in Appendix B.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The Site is located in an urban setting, occupied by residential and commercial buildings. The Site is bounded to the north by the Fashion Outlets of Niagara Falls, to the east by Wal-Mart, to the west by commercial properties, followed by Factory Outlet Boulevard, Route 190, and a solid waste landfill (Allied Waste Service Niagara Falls Landfill), and to the south by the National Power Grid power lines and vacant land, followed by commercial buildings.

Based on a State Environmental Quality Review Environmental Assessment Form (SEQR EAF) prepared for the Site by Stantec Consulting Services, Inc. of Rochester, New York (Stantec), the nearest ecological receptor is a 4.3-acre NYSDEC regulated wetland located within 100 feet of

the southwestern corner of the Site and potentially down gradient.

1.4 SITE HISTORY

Numerous previous environmental reports have been completed (by Langan and others) for the Sabre Park and Fashion Outlets of Niagara Falls parcels. Historic remedial actions have also been performed at the parcels. Previous reports and historic remedial actions are discussed in detail in the 5 July 2011 Phase I Environmental Site Assessments (ESAs) prepared by Langan and will not be discussed in detail in this report; however, a brief summary is presented below.

1.4.1 Summary of Previous Environmental Investigations by Others

Sabre Park Property

According to a review of title records for the Site, Sabre Park was owned by Union Carbide Corporation from 1949 until 1969. According to the EDR Report, during expansion of the mobile home community to the south in 1978, fill with elevated level of organic chemicals was discovered; however, information regarding the source or quantity of this fill material was not provided. During a 1985 through 1986 soil sampling event conducted by the United States Environmental Protection Agency (USEPA), organic chemicals were not detected; however, the samples contained mercury. Mercury impacted soil was remediated via excavation and offsite disposal; however, elevated concentrations of mercury remain in on-site soils (maximum concentration = 766 mg/kg).

A follow-up field investigation of the extent of mercury contamination at the Sabre Park Trailer Park was conducted by NUS Corporation (NUS) in May 1988. A total of 424 soil samples were screened for total mercury using the Region 2 Fit X-Ray Fluorescence (XRF) system. In addition 125 split samples were sent to an EPA Contract Laboratory Program (CLP) for confirmation. Mercury was detected by XRF at concentrations greater than 40 mg/kg (up to 84 mg/kg) in 14 soil samples collected from the southwestern portion of the Site. Mercury was detected in 41 of 125 CLP samples at concentrations ranging from 0.14 to 54.4 mg/kg. Approximately 1,200 cubic–yards of mercury impacted soil was remediated in 1989 by excavation and off-site disposal as a D-listed (D009-mercury) hazardous waste at an off-site soil disposal facility.

During an August 1995 subsurface investigation conducted by Paragon Environmental Services (Paragon), total petroleum hydrocarbons (TPH) were detected in the soil and groundwater at concentrations ranging from 7 to 120 mg/kg in soil, and 0.4 to 0.72 mg/L in groundwater. As the NYSDEC has no criteria for TPH in subsurface media, Paragon was directed to use professional judgment to determine if the TPH concentrations posed a risk to human health or the

environment. It was Paragon's opinion that the TPH concentrations in the soil and groundwater at the Site did not pose a risk to human health and no further action was recommended on the Site.

Seven petroleum spills (heating oil, motor oil, non-PCB transformer oil, waste oil) were reported at the Sabre Park property from 1985 to 2010. These spills have all been closed according to the NYSDEC Spills Database.

Based on the historic dumping that occurred at the Sabre Park property, the NYSDEC identified the Site as an Inactive Hazardous Waste Disposal Site. Subsequent to several phases of remediation, the NYSDEC concluded that the Sabre Park property had been properly remediated and that "no further action" was required. In a letter dated March 21, 1995, the NYSDEC delisted Sabre Park from the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

Fashion Outlets of Niagara Falls Property

According to the 5 July 2011 Phase I ESA conducted by Langan for the Fashion Outlets property, the 1970 and 1980 city directory listings indicate historic uses of the Fashion Outlets property may have included a dry cleaner. The exact location of the former dry cleaner has not been confirmed.

The northwestern portion of the Property (grids 1 through 7 shown in Figure 4 of the RIR, included in Appendix B) was formerly occupied by the Walter Kozdranski Construction Company. This facility had a documented release of diesel fuel oil associated with a former leaking underground storage tank which was removed in July 1988. A spill report was issued for the property in July 1988 and 5,400 gallons of liquid were reportedly removed from the Site. The spill report is unclear if the liquids were tank related or in groundwater. The spill was closed by the NYSDEC on July 12, 1988. According to the 2004 Phase II Environmental Site Investigation conducted by IVI Due Diligence Services, Inc. (IVI), concentrations of petroleum related semi-volatile organic compounds (SVOCs), including benzo(a)anthracene, chrysene, and benzo(a)pyrene were detected in three of six soil borings locations at concentrations above the applicable NYSDEC numeric criteria. As the results of this investigation were similar to the information the NYSDEC had on the Kozdranski property when they closed the spill in 1988, no further investigation was recommended by IVI.

The Fashion Outlets property received contaminated fill in the late 1960's or early 1970's. A waste area approximately 0.5-acres in size was discovered in the parking area immediately west-northwest of the outlets. In October 1985, a yellow-tan waste material was discovered during the installation of stormwater piping in the northwestern property corner and investigation of the on-site waste material was initiated. The results of the investigations revealed the presence of volatile organic compounds (VOCs), SVOCs, inorganic compounds, and pesticide compounds. Elevated concentrations of N-nitrosodiphenylamine and 1,2,4-trichlorobenzene were detected in on-site soils in October 1985. Six different types of fill were identified on-site: including a yellow-tan resinous waste, white powder-like material, construction and demolition debris, ash and slag. Based on the described fill placement location, it does not appear that this contaminated material was placed within the BCP development Site boundary.

Approximately 12,879 tons of contaminated materials and 7,300 gallons of impacted wastewater were removed from the Fashion Outlets property between January and February of 1994. The results of post-remediation soil sampling activities indicate that elevated concentrations of 2-mercaptobenzothiazole were detected in four of the twenty-four soil samples at concentrations exceeding the applicable numeric soil criteria. Several metals and pesticides were also detected in soil at concentrations below the applicable criteria. The remediation was closed with a Record of Decision in December 1994, which required the property owner to file a deed restriction/covenant prohibiting future use of certain areas of the Site for residential purposes. In January 1995, the Site was delisted from the New York State Inactive Hazardous Waste Disposal Site (IHWDS) list (No. 932103).

During construction of the mall expansion in November 1994, a white powder waste was encountered while drilling caissons for the mall's foundation. A sample of the waste was collected and analyzed for TCLP, and found to exceed regulatory limits for vinyl chloride. This material was excavated from the site between February 2 and February 11, 1995 and temporarily staged on-site. Material staged on-site was screened and separated into hazardous and non-hazardous piles. After screening the excavated materials to separate drums and construction and debris material that could not be landfilled, the remaining material no longer exceeded TCLP for vinyl chloride. This material was reused beneath an on-site parking lot.

2.0 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

Langan conducted the RI field investigation between 23 June 2013 and 3 July 2013, in accordance with the procedures set-forth in the NYSDEC Remedial Investigation Work Plan (RIWP), dated 19 April 2013 (revised 14 June 2013), and approved by NYSDEC on 18 June 2013. The RI field program consisted of the installation of 62 soil borings, excavation of 84 test pits, construction of 8 groundwater monitoring wells, and installation of 10 soil vapor probes. A complete summary of findings and analytical results can be found in the Remedial Investigation Report (RIR) dated 16 August 2013, prepared by Langan. Summary data tables from the RIR are included in Appendix B. Below is a summary of the findings and conclusions of the RI activities:

1. Subsurface conditions at the Site consisted of fill ranging in thickness from 2 to 15 feet underlain by silty sand and clay. Fill material consisted of brown to dark gray and black fine to coarse grained sands with varying levels of silt, clay, gravel, organics (roots), brick, concrete, wood, glass, rubber, slag, and miscellaneous pieces of plastic and metal. The underlying clay appeared to be continuous and was observed to be dense with increased quantities of coarse sand and fine gravel at depths of 13 to 16 feet below grade or just prior to refusal.

2. Slag is prevalent throughout the development area and is associated with historic filling and dumping at the Site. A Ludlum Geiger counter confirmed that the slag did not exhibit radioactivity.

3. VOCs, SVOCs, Polychlorinated Biphenyls (PCBs), Pesticides and metals were identified in soil throughout the Site at concentrations exceeding the Unrestricted Use Soil Cleanup Objectives (SCOs). SVOCs, metals, and PCBs were identified in soil throughout the Site at concentrations exceeding the Restricted Commercial SCOs, and are likely attributed to the site-wide historic dumping and not a localized release.

4. Based on limited chromium Toxicity Characteristic Leaching Procedure (TCLP) analysis, samples from LSB-23-A and LSB-23-S exceeded the Resource Conservation and Recovery Act (RCRA) Hazardous Waste Criteria. These two samples were collected from an anomalous material that was easily identifiable in the field from the surrounding fill material and exhibited a yellowish color. As discussed in the 16 August 2013 RIR, this material was visually delineated with a Geoprobe to determine the horizontal and vertical extents of the material. During the proposed development, this material would be excavated and disposed of in accordance with state and federal regulations, as addressed in the Materials Management Plan (MMP).

5. Overburden groundwater observed at the Site is likely perched water within the fill layer, confined by the underlying clay layer. pH in groundwater ranged from 6.29 to 12.11. Hexavalent chromium and total chromium were detected in four samples (LMW-5 through LMW-8) at concentrations exceeding the 6 New York Codes, Rules and Regulations (NYCRR) Part 703 Ambient Water Quality Standards (AWQS) of 50 ug/L. Impacts to groundwater at the Sabre Park parcel are likely a result of perched water mixing with slag and fill material. The impacted slag and elevated metal concentrations are likely causing the pH of groundwater to rise to the levels observed in the field.

6. VOC impacts in soil gas were identified at concentrations exceeding the New York State Department of Health (NYSDOH) Upper Fence Values, at locations within the footprint of the proposed expansion. A sub-slab vapor intrusion mitigation system will be incorporated into the construction of the expansion.

Soil, groundwater, and soil vapor sample locations and exceedances are shown on Figures 4 through 8, and analytical results are summarized in Tables 2 through 5 of the RIR, included as Appendix B.

2.1 HYDROGEOLOGICAL CONDITIONS

2.1.1 Topography

The elevation of the Site ranges from 571.63 feet to 575.62 feet above mean sea level, measured in accordance with the North American Vertical Datum of 1988 (NAVD 88). The topography of the Site and the surrounding area slopes gently to the south towards the Niagara River (approximately 1.5 miles away).

2.1.2 Geology

Geological surface features (e.g., rock outcroppings) were not observed at the Site. Based on the Geologic Map of New York, Niagara Sheet (1970), bedrock beneath the Site is classified as the Lockport Group, consisting primarily of dolostone with incidental amounts of limestone. Bedrock is approximately 210-ft thick and overlies the Rochester shale.

According to a Preliminary Geotechnical Report, dated January 31, 2012, prepared by Baron and Associates P.C. of Clarence, New York, surficial materials in the northern portion of the Site generally consist of 1-2 feet of granular fill, with trace amounts of brick and asphalt. Beneath the fill is a layer of sandy silt, silty clay, with trace amounts of gravel and fine to coarse sand. Glacial till was also encountered at select locations. Bedrock was encountered from approximately 10.5 to 14 feet below grade.

During the RI drilling and test pitting activities, Langan observed the following geology:

Fill Material

Fill material consisted of brown to dark gray and black fine to coarse grained sands with varying levels of silt, clay, gravel, organics (roots), brick, concrete, wood, glass, rubber, slag, and miscellaneous pieces of plastic and metal, was observed at the surface throughout the Sabre Park portion of the property, and just below surface features at the Fashion Outlet and Secure Storage facility parcels. Fill generally extends to an average depth of 5 feet below grade, with a maximum depth of approximately 15 feet below grade at limited locations to the south.

The slag was observed at over 29 locations throughout the site and generally consisted of a hard, porous, chromium rich material. At select test pit locations Langan observed pieces of slag up to 2 feet in diameter. A Ludlum Geiger counter was utilized to assess the potential radioactivity of the slag; however, no readings were observed above background (0.05 millirems/hour).

Silty Sand/Silty Clay Unit

At limited locations, Langan observed silty fine sand beneath the fill layer ranging in thickness from 2 to 4 feet below the fill. A silty/clay layer was observed underlying the fill and/or silty sand layers, encountered at depths of 2 to 12 feet and extended to 16 feet below grade or the boring/test pit termination depth.

Clay Unit

The clay was observed to vary in color from brown, gray and reddish-brown, and contained trace quantities of silt and fine sand. The clay was observed to be dense with increased quantities of coarse sand and fine gravel at depths of 13 to 16 feet below grade or just prior to refusal. Boring refusal was encountered at depths ranging from 10.3 to 15.9 feet below grade, and was generally limited to locations throughout the Fashion Outlets parking lot, Secure Storage facility, and a few locations in the northern section of Sabre Park.

2.1.3 Hydrogeology

Historic geotechnical and groundwater sampling conducted at the Site identified groundwater at depths ranging from 2 to 12 feet below grade. The overburden deposits typical to the project area can have low to moderate hydraulic conductivities. The bedrock is relatively impermeable except where concentrations of fractures, faults or joints are present. Preferential flow occurs through the more permeable zones of the overburden, such as individual sand or gravel layers, and through bedrock fractures and joints.

Langan installed eight (8) permanent monitoring wells throughout the site to determine groundwater depth, flow direction, and water quality. Based on the monitoring well gauging events performed on 2 July 2013 and 23 July 2013, perched groundwater was encountered at

depths ranging from 1.8 to 4.39 feet below grade (elevations 572.50 to 567.23 NAVD 88). A groundwater contour map, Figure 9 of the RIR included in Appendix B, was created based on these elevations, indicating that the perched groundwater flows to the north. Bedrock monitoring wells have not been installed at the Site.

Site groundwater is not used as a potable (drinking) water source. Area residents receive their drinking water supply from surface reservoirs located in the Niagara River.

2.1.4 Wetlands

Based on the Niagara County, New York On-Line Mapping System, NYSDEC and National Wetland Inventory (NWI), approximately 4.3-acres of NYSDEC regulated wetland areas are depicted near the southern and eastern portions of the Site. This wetland area is located on the adjacent National Grid utility corridor within 100 feet of the southwest property line.

2.2 CONTAMINATION CONDITIONS

This section describes the distribution of contaminants, on and off-Site.

2.2.1 Conceptual Model of Site Contamination

2.2.1.1 On-Site Contamination

- **Soil –** Slag is prevalent throughout the development area and is associated with historic filling/dumping at the Site. A Ludlum Geiger counter confirmed that the slag did not exhibit radioactivity. VOCs, SVOCs, PCBs, Pesticides and metals were identified in soil throughout the Site at concentrations exceeding the Unrestricted Use SCOs. SVOCs, metals, and PCBs were identified in soil throughout the Site at concentrations exceeding the Restricted Commercial SCOs, and are likely attributed to the result of site-wide historic dumping and not a localized release. Based on limited chromium TCLP analysis, samples from LSB-23-A and LSB-23-S exceed the RCRA Hazardous Waste Criteria. During the proposed development, this material would be handled in accordance with RCRA regulations, as addressed in the IRMWP.
- **Groundwater** – Overburden groundwater observed at the Site is likely perched water within the fill layer, confined by the underlying clay layer. pH in Groundwater ranged from 6.29 to 12.11, and is likely the result of high concentrations of dissolved metals within the fill material. Impacts to groundwater at the Sabre Park parcel are likely a result of perched water mixing with slag and fill material. The impacted slag and elevated metal concentrations are likely causing the pH of groundwater to rise to the levels observed in the field.

- **Soil Vapor –** VOC impacts in soil gas were identified at concentrations exceeding the NYSDOH Upper Fence Values, at locations within the footprint of the proposed expansion. A sub-slab vapor intrusion mitigation system will be incorporated into the construction of the expansion.

2.2.2 Description of Areas of Concern

Based on Site observations, the development history of the Site and the findings of the previous reports outlined above, the areas of concern (AOCs) investigated during the remedial investigation are as follows:

Historic Site Use – The northern portion of Site was historically owned by the Walter Kozdranski Construction Company. As indicated above, this facility had a documented release of diesel fuel oil associated with a former leaking underground storage tank removed in July 1988. During a 2004 Phase II Environmental Site Investigation (ESI) conducted by IVI, concentrations of petroleum related SVOCs, including benzo(a)anthracene, chrysene, and benzo(a)pyrene were detected in soil above the applicable NYSDEC numeric criteria:

Historic Site Use (On-site Dumping) – The northern portion of the Site received contaminated fill in late 1960's or early 1970's. A waste area approximately 0.5-acres in size was discovered in the parking area immediately west-northwest of the current outlet building. The results of the investigations revealed the presence of VOCs, SVOCs, inorganic compounds, and pesticide compounds. Elevated concentrations of N-nitrosodiphenylamine and 1,2,4-trichlorobenzene were detected in on-site soils in October 1985. Six different types of fill were identified on-site: including a yellow-tan resinous waste, white powder-like material, construction and demolition debris, ash and slag. Although identified as an on-site AOC, the proposed development plan does not incorporate this area, and therefore no RI activities we conducted in this area.

Historic Site Use (Former Sabre Park Parcel) – According to a review of title records the former Sabre Park Parcel was owned by Union Carbide Corporation. During expansion of the mobile home community to the south in 1978, fill material with elevated levels of organic chemicals was discovered. This fill material (approx. 1,200 cubic–yards) was subsequently removed from the southern portion of the property and disposed of as a D-listed (D009) hazardous waste at an offsite soil disposal facility in 1989. During a 1985/1986 soil sampling event conducted by the USEPA, organic chemicals were not detected in soil samples collected from the property; however, the samples contained elevated levels of mercury. Mercury impacted soil was remediated via excavation and offsite disposal; however, elevated concentrations of mercury remain in onsite soils (maximum concentration = 766 mg/kg).

During an August 1995 subsurface investigation conducted by Paragon, TPH was detected in the soil and groundwater beneath the Site; however, no chemical concentrations or sampling locations were provided. The NYSDEC has no criteria for TPH in subsurface media, and no further action was recommended on the Site by Paragon.

2.2.3 Identification of Standards, Criteria and Guidance

Site characterization of soils and remedy selection for soil cleanup would be accomplished under 6 NYCRR Part 375, with reference to 6 NYCRR Subpart 375-3 Brownfield Cleanup Program and Subpart 375-6 Remedial Program Soil Cleanup Objectives. The following additional Standards, Codes and Guidance (SCGs) would apply to site remediation:

- New York State Groundwater Quality Standards – 6 NYCRR Part 703;
- NYSDEC Ambient Water Quality Standards and Guidance Values – Technical & Operational Guidance Series (TOGS) 1.1.1;
- NYSDEC Draft Brownfield Cleanup Program Guide – May 2004;
- NYSDOH Generic Community Air Monitoring Plan;
- NYS Waste Transporter Permits – 6 NYCRR Part 364;
- NYS Solid Waste Management Requirements – 6 NYCRR Part 360 and Part 364;
- Department of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10);
- DER Presumptive/Proven Remedial Technologies (DER-15);
- CP-51 – Soil Cleanup Guidance;
- DER Citizen Participation Handbook for Remedial Programs (DER 23);
- DER Green Remediation (DER 31);
- DER Institutional Controls (DER 33).

The following SCGs would apply to the removal of hazardous lead contaminated soil:

- 29 Code of Federal Regulations (CFR) Part 1910.120 - Hazardous Waste Operations and Emergency Response (HAZWOPER);
- 29 CFR Part 1916 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998);

- 6 NYCRR Part 375 – Identification and Listing of Hazardous Wastes;
- 6 NYCRR Part 376 – Land Disposal Restrictions.

Site characterization of groundwater was in accordance with TOGS 1.1.1 – Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations and Guidance Values for Class GA groundwater (Groundwater Quality Standards Part 703). Closure of on-site wells would be conducted in accordance with the CP-43 – Groundwater Monitoring Well Decommissioning if necessary.

Site characterization of soil vapor and soil vapor mitigation measures was implemented in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. A list of SCGs that apply for site characterization and remedial investigation, remedy selection, underground storage tank closure, remedial action, and site management is included as Appendix C.

2.2.4 Soil/Fill Contamination

The contaminants of concern (COC) identified in soil at the Site are associated with historical dumping of fill, which extends to a depth of approximately 15 feet bgs. The COCs include SVOCs, metals (specifically chromium) and PCBs.

2.2.4.1 Summary of Soil/Fill Data and Comparison with SCGs

A summary of the findings of the soil investigation is provided below:

One or more aromatic and/or halogenated VOCs were detected in 160 of 280 soil samples collected. Of the 160 soil samples, acetone, a common laboratory contaminant was detected in 15 samples exceeding the Unrestricted Use SCO. No other VOCs were detected exceeding the Unrestricted Use SCO. No detected VOCs exceeded the Restricted Commercial SCOs;

One or more SVOCs (polycyclic aromatic hydrocarbons (PAHs) only) were detected in 162 of 295 soil samples collected. SVOCs were detected in 31 samples at concentrations exceeding the exceeded the Unrestricted Use SCOs, and 16 samples at concentrations exceeding the Restricted Commercial SCOs;

One or more total metals were detected in each of the 295 soil samples collected. One or more metals were detected in 187 samples at concentrations exceeding the Unrestricted Use SCOs. One or more metals were detected in 27 samples at concentrations exceeding the Restricted Commercial SCOs. Trivalent chromium was identified in 21 of 27 samples exceeding the Restricted Commercial SCOs, at concentrations ranging from 1,500 mg/kg to 6,560 mg/kg.

Hexavalent chromium exceeded the Restricted Commercial SCOs in 2 of 27 samples, with concentrations of 486 mg/kg to 506 mg/kg;

Due to site-wide exceedances of the Restricted Commerical SCOs for chromium, select samples were analyzed for chromium using the TCLP. Chromium was detected in two samples (LSB-23-A and LSB-23-S), at concentrations exceeding the RCRA Hazardous Waste Criteria of 5 mg/L. These two samples were collected from an anomolous material that was easily identifiable in the field from the surrounding fill material and exhibited a yellowish color. As discussed in the 16 August 2013 RIR, this material was visually delineated with a Geoprobe to determine the horizontal and vertical extents of the material. This material is being considered a hot spot and would be handled and disposed of offsite in accordance with the IRMWP and requirements of the BCP;

One or more organochlorine pesticides were detected in 34 of the 295 soil samples collected. Pesticides were detected in 18 samples at concentrations exceeding the Unrestricted Use SCOs. Organochlorine pesticides were not detected at concentrations exceeding the Restricted Commercial SCOs;

The herbicide Silvex (2,4,5-TP) was detected in 1 of the 295 soil samples (LSB-32-B) at a depth of 6 to 8 ft, at a concentration of 0.0477 mg/kg, below the Unrestricted Use and Restricted Commercial SCOs; and,

One or more PCBs were detected in 43 of the 295 soil samples collected. PCBs were detected in 30 samples at concentrations exceeding the Unrestricted Use SCOs. PCBs were detected in 5 samples at concentrations exceeding the Restricted Commercial SCOs. Soil associated with a sample collected from investigation test pit, LTP-46-B, are being considered a hot spot due to elevated concentrations of PCBs (23 mg/kg) exceeding the site-specific criteria of 10 mg/kg, and will handled and disposed of offsite in accordance with the IRMWP and requirements of the BCP.

Soil sample analytical results are summarized and compared with Restricted Commercial SCOs in Table 2, and the results exceeding the SCOs are shown on Figure 6 of the RIR, both included in Appendix B.

2.2.5 On-Site and Off-Site Groundwater Contamination

2.2.5.1 Summary of Groundwater Data and Comparison with SCGs

Groundwater samples were collected for laboratory analysis from all eight newly installed

monitoring wells. A summary of the findings of the groundwater investigation is provided below:

One or more aromatic and/or halogenated VOCs were detected in all 9 groundwater samples collected. The VOCs (cis)1,2-dichloroethylene, trichloroethylene (TCE), and vinyl chloride were detected in one sample (LMW-1) at concentrations exceeding the AWQS for these compounds of 5 ug/L, 19, ug/L, and 13 ug/L, respectively. Acetone, a common laboratory contaminant was detected in all 9 groundwater samples at concentrations below all applicable criteria;

One or more SVOCs (PAHs only) were detected in all 9 groundwater samples collected. Benzo(k)fluoranthene was detected in one sample (LMW-8) at a concentration of 0.0526 ug/L, exceeding the AWQS of 0.002 ug/L;

One or more total metals were detected in all nine groundwater samples collected. Hexavalent chromium and total chromium were detected in four samples (LMW-5 through LMW-8) at concentrations exceeding the AWQS of 50 ug/L. Manganese was detected in four samples (LMW-1 through LMW-4) at concentrations exceeding the AWQS for manganese of 300 ug/L. Selenium was detected in two samples (LMW-3 and LMW-4) at concentrations exceeding the AWQS for selenium of 10 ug/L;

Pesticides and herbicides were not detected in any of the groundwater samples at concentrations above the applicable NYSDEC criteria; and,

PCBs were not detected in any of the groundwater samples at concentrations above the laboratory analytical method detection limits.

Groundwater sample analytical results are summarized and compared to SCGs in Table 3, and the results exceeding the SCOs are shown on Figure 7 of the RIR, both included in Appendix B.

2.2.6 On-Site and Off-Site Soil Vapor Contamination

2.2.6.1 Summary of Soil Vapor Data and Comparison with SCGs

Due to water infiltration into the soil gas probes, only 3 of 10 soil gas samples could be collected (LSV-2, LSV-5, and LSV-9) and analyzed for the Target Organic-15 (TO-15) list of compounds. A summary of the soil vapor samples collected during the RI is presented below:

Various chlorinated and petroleum related VOCs were detected in all three of the soil gas samples. VOCs detected in ambient air samples were generally lower than the soil gas samples.

Soil vapor sample analytical results are summarized and compared to SCGs in Table 4, and the results exceeding the SCOs are shown on Figure 8 of the RIR, both included in Appendix B.

2.3 ENVIRONMENTAL AND PUBLIC HEALTH ASSESSMENTS

2.3.1 Qualitative Human Health Exposure Assessment

An assessment of human health exposure was conducted for both current and future conditions in accordance with Appendix 3B of the NYSDEC Draft DER-10, Technical Guidance for Site Investigation and Remediation, dated May 2010. The assessment included an evaluation of potential exposure media, receptor populations, and pathways of exposure to Site-related COCs. Complete exposure pathways have the following five elements: 1) a contaminant source; 2) contaminant release and transport mechanism; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population.

Conceptual Site Model

A conceptual site model has been developed based on the findings of the Site subsurface investigations. The purpose of the conceptual site model is to develop a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways, as discussed below.

Potential Sources of Contamination

Sources of contamination at the Site primarily include contaminants from documented historic fill material (some containing slag) which was historically placed at the Site to raise grade for development. Additional sources, such as historical releases or spills have not been identified.

Exposure Media

The media that may have been impacted by the above sources include soil, groundwater, and soil gas. Site soil may have been impacted by any of the former historical operations and/or the nature of the historic fill. Analytical data collected to date indicates that the historic fill underlying the Site is contaminated with VOCs (low-level), PAHs, PCBs, pesticides, and metals. Exceedances in groundwater and soil gas are likely attributable to on-Site source(s).

Receptor Populations

The human receptors for current Site conditions include workers, visitors, and trespassers.

Trespassers may be comprised of children, adolescents, and adults, whereas construction workers would be limited to adults. During construction and remediation activities, receptors would include construction and remediation workers. Under future conditions, receptors would likely include workers and visitors.

Potential Exposure Pathways – On-Site

Potential pathways to human receptors include direct contact (dermal absorption), ingestion, and inhalation of identified COCs. An evaluation of potential exposure pathways is provided below.

It should be noted that, the Site and surrounding areas are serviced by municipal water as required by the Town of Niagara Zoning Law Article VII, Chapter 135, Section 95 – Use of Town water required, which states that all premises within the Town requiring the use of water shall have connection with and exclusively use Town water. Use of groundwater at the Site for drinking would be further prohibited through filing of an Environmental Easement.

The proposed development plan includes the installation of stormwater sewers at depths below the observed perched groundwater table. Due to these conditions there is the potential for water to infiltrate the stormwater system and flow into the stormwater detention ponds. Although this presents a potential future exposure pathway to COCs in the perched groundwater, watertight fittings will be specified for the stormwater system in order to mitigate the potential for groundwater infiltration, therefore minimizing the exposure pathway.

Current Site Conditions

Site soil is currently covered by grass or covered by existing impervious cover (asphalt pavement and concrete). Therefore, a potential exposure pathway from COCs in soil to human receptors exists under current conditions.

The Site and surrounding areas obtain their drinking water supply from municipal sources, and not from Site groundwater. Therefore, a potential exposure pathway from groundwater to human receptors does not exist.

A potential exposure pathway from COCs in soil gas to human receptors does exist for current Site conditions.

Construction/Remediation Activities

Future construction and remediation activities at the Site would include demolition of the paved areas, and excavation and removal of some impacted soil. Therefore, the potential exists for

exposure of soil COCs to construction workers via dermal absorption, ingestion, and inhalation. The future construction activities may result in exposure to the public and construction workers of Site soil gas COCs through volatilization of vapors into the air and Site soil COCs through the generation and off-Site migration of dust. However, such exposures would be of short duration limited only to intrusive activities. Working in accordance with a Health and Safety Plan, a Soil Management Plan, and a Community Air Monitoring Plan, as well as donning personal protective equipment, and applying vapor and dust suppression measures to prevent off-Site migration of contaminants during construction would make this potential migration pathway incomplete.

Future/Post-Construction Conditions

Upon completion of the proposed construction activities, the Site would primarily be covered by buildings, parking lots, and roads. These structures would prevent direct human exposure to any contaminated materials that may be left in place. After the buildings are constructed, a complete exposure pathway via potential inhalation of subsurface soil gas should not exist as long as the existing building slabs are sealed. However, vapor intrusion to indoor air presents a low but potential exposure pathway that would be addressed by a soil vapor barrier and sub slab depressurization system.

As previously discussed, there is the potential for water to infiltrate the proposed stormwater system and flow into the stormwater detention ponds. Although this presents a potential future exposure pathway to COCs in the perched groundwater, watertight fittings will be specified for the stormwater system in order to mitigate the potential for groundwater infiltration, therefore minimizing the exposure pathway.

Potential Exposure Pathways – Off-Site

It should be noted that, the Site and surrounding areas are serviced by municipal water and the use of municipal water is required by the Town of Niagara Zoning Ordinance Chapter 135 Article VII Section 135-95 (Use of Town Water Required) and also required in the City of Niagara Falls under Local Law #4 of 2010. Therefore, current and future potential pathways for groundwater are not complete for off-site areas based on current legal restrictions of groundwater use.

Bedrock groundwater conditions have not been assessed.

Evaluation of Human Health Exposure

According to DER-10, Appendix 3B, a complete exposure pathway to human receptors requires all of the following five elements: 1) a contaminant source; 2) contaminant release and transport mechanisms; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. If any of the above five elements do not exist for current or future Site conditions, then a complete exposure pathway does not exist.

Current Conditions

The conceptual Site model identified a contaminant source (element 1) and a human receptor population (element 5). Also, a point of exposure (element 3) exists/may exist for potential exposure media for soil and groundwater COCs for current Site conditions, and a point of exposure exists for soil gas COCs in select portions of the Site.

Construction/Remediation Activities

Contaminant sources and contaminant release and transport mechanisms are those identified for the current conditions. Points of exposure during construction/remediation activities include the disturbed and exposed contaminated soil during excavation and contaminated dust and organic vapors arising from the excavation activities. Points of exposure would exist for groundwater COCs because excavation extends into groundwater (perched water). Routes of exposure include ingestion and dermal absorption of contaminated soil or groundwater, inhalation of organic vapors arising from contaminated soil and groundwater, and inhalation of dust arising from contaminated soil. The receptor population includes the construction and remediation workers and, to a lesser extent, the local population. All five elements exist; therefore, completed exposure pathways are present. However, the temporary risk would be minimized by applying appropriate health and safety measures, such as monitoring the air for organic vapors and dust, using vapor and dust suppression measures, maintaining site security, and wearing the appropriate personal protective equipment.

Future (Post-Construction) Conditions

Although post-construction conditions would be characterized by a contaminant source (element 1) and a human receptor population (element 5), a point of exposure (element 3) would not exist for potential exposure media for soil and groundwater COCs. After the structures are constructed, a complete exposure pathway via potential inhalation of subsurface vapors should not exist as long as the existing building slab is sealed and a sub-slab depressurization system is installed.

As discussed above, infiltration into the proposed stormwater system presents a potential future exposure pathway to COCs in the perched groundwater. Watertight fittings will be specified for the stormwater system in order to mitigate the potential for groundwater infiltration, minimizing the exposure pathway.

Potential Ecological Risks

The Site is a former urban fill site located within a highly developed, urban area in the Town of Niagara. The future Site use is commercial with the majority of the Site covered by buildings, concrete sidewalks and asphalt, providing little or no wildlife habitat or food value. As such, no unacceptable ecological risks are anticipated under the current or reasonably anticipated future use scenario.

The NYSDEC's decision key contained in Appendix 3C of DER-10 (NYSDEC, 2010) was utilized to evaluate whether or not performance of a Fish and Wildlife Resources Impact Analysis was needed. The RI demonstrated that there is evidence that COPCs were released into the environment at the Site. Therefore, the Site can be considered to have been affected by one or more discharge or spill events.

The Site currently contains ecological resources consisting of grassy fields and shrubby areas. Other ecological resources may also be present.

Review of the NYSDEC's internet-based Environmental Resources Management Resource Mapper suggests that the Site and adjacent properties may contain state-regulated freshwater wetlands and rare plants and/or rare animals. However, evidence of significant on-Site ecological resources was not observed during the RI. Additionally, there is no evidence that contamination present at the Site has the potential to migrate to and impact potential off-Site ecological resources. Therefore, a Fish and Wildlife Resources Impact Analysis was not needed based on our interpretation of NYSDEC guidance (DER-10 Appendix 3C).

2.4 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) have been identified for this Site.

2.4.1 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards; and,

- Prevent leaching of chromium from characteristically hazardous soil to groundwater.

RAOs for the Environment

- Prevent discharge of groundwater that would results in surface water contamination.

2.4.2 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with soil that poses a risk to public health and the environment given the current and future intended use of the Site; and,
- Prevent inhalation of or exposure to, contaminants volatilizing from contaminated soil.

RAOs for the Environment

- Prevent migration of contaminants that would results in groundwater or surface water contamination.
- Remove characteristically hazardous soil/fill

2.4.3 Soil Vapor

RAOs for Public Health Protection

- Prevent exposure to contaminants in soil vapor; and,
- Prevent migration of soil vapor into occupied structures.

2.5 DESCRIPTION AND EVALUATION OF PROPOSED REMEDIAL MEASURES

This section provides an analysis of the selected remedial approaches by media using the Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10: Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010).

As described in Section 4.1 of the Guidance Document, "the goal of the remedy selection process in the BCP is to select a remedy for a site that is fully protective of public health and the environment, taking into account the current, intended, and reasonably anticipated future land use of the site." In order to achieve this goal, the Guidance Document divides remedial actions into four Cleanup Tracks (Tracks 1 through 4). Each cleanup track can result in a remedy that is protective of public health and the environment, but the remedies for each track would differ in respect to extent of the cleanup, restrictions on future site use, the application of institutional and/or engineering controls, and the amount of site specific information required to support the

remedy selection process.

Track 1 Cleanup

A Track 1 cleanup would achieve a cleanup level that would allow the site to be used for any purpose without any restrictions on the use of the Site. It would also achieve a cleanup level that does not rely on the implementation of long term institutional and engineering controls (except if a groundwater use restriction is placed upon the site) The soil cleanup must achieve the 6 NYCRR Part 375 Unrestricted Use criteria at any depth above bedrock and the backfill used must meet the unrestricted use criteria.

Track 2 Cleanup

A Track 2 restricted-residential, residential, commercial, or industrial cleanup allows for the use of the generic soil criteria presented in Part 375. The remedy must address contaminants of concern in soils at any depth above bedrock to meet the appropriate restricted use criteria. The requirement to achieve the appropriate restricted use criteria for all soils above bedrock may not apply to soils at a depth greater than 15 feet below ground surface, provided that:

- The soils below 15 feet do not represent a source of contamination;
- The environmental easement for the Site requires that any contaminated soils remaining at depth would be managed along with other site soils, pursuant to a site management plan;
- Off-site groundwater does not exceed standards; and
- On-site groundwater use is restricted.

The soil portion of the remedy must meet the lowest of the relevant restricted use criteria for protection of human health or the criteria for protection of groundwater or the protection of ecological resources presented in Part 375 (unless the criteria for protection of groundwater and protection of ecological resources are determined not to apply). If offsite material is required to be imported for the remedy, it must meet requirements of Appendix 5 (Allowable Constituent Levels for Imported Fill or Soil for Commercial Use) in the NYSDEC's guidance document DER-10. The remedy may not rely on the implementation of long term institutional and engineering controls to address soil impacts. Long term institutional or engineering controls can be implemented to address contamination related to other media including, but not limited to, groundwater and soil gas.

Track 3 Cleanup

A Track 3 cleanup must satisfy the provisions for a Track 2 remedial program; however, the NYSDEC may approve the modification of one or more of the contaminant-specific soil cleanup objectives set forth in Table 375-6.8(b) based upon site-specific data. Any modification of criteria must be performed in accordance with Section 375-6.9.

Track 4 Cleanup

A Track 4 cleanup utilizes site-specific information and guidance to identify soil cleanup objectives to achieve a restricted use remedy. Track 4 allows the use of the generic soil cleanup objectives table for the particular land use scenario, or allows for the development of site-specific criteria. To achieve a Track 4 remedy, restrictions would be placed on the use of the property and upon groundwater use. Track 4 would utilize institutional/engineering controls to prevent exposure to soil contamination (capping and containment) and all other media. For commercial use, the top one foot must meet the lowest of the respective restricted use criteria for protection of human health or the criteria for protection of groundwater or the protection of ecological resources presented in Part 375 (unless the criteria for protection of groundwater and protection of ecological resources are determined not to apply). If offsite material is required in the top one foot of soil, it shall meet requirements of Appendix 5 (Allowable Constituent Levels for Imported Fill or Soil for Commercial Use) in the NYSDEC's guidance document DER-10.Consistent with the Guidance Document, the proposed remedy for the Site would be fully protective of public health and the environment, taking into account the current, intended, and potential future land use.

According to section 4.4 of DER-10, the alternatives analysis for a BCP site must develop two or more alternatives, as long as the proposal is for restricted use where:

- One alternative would achieve unrestricted use relative to soil contamination, without the use of institutional/engineering controls; and

- Such other alternatives proposed by the remedial party which would achieve the cleanup Track and intended us identified for the site.

Accordingly, the following two alternatives for the Site were evaluated:

- The first alternative would achieve unrestricted use relative to soil contamination via excavation and off-site disposal (soil exceeding Unrestricted Use criteria), without the use of institutional/engineering controls, under a Track 1 scenario;

- The second alternative would include the implementation of hot spot excavation for PCB-impacted (>10 mg/kg) soil and characteristically hazardous chromium-impacted soil, installation of a cover system consisting of one foot soil cap (below Allowable Constituent Levels for Imported Fill or Soil for Commercial Use) in landscaped areas and 6-inches of clay lining the detention ponds, an impermeable capping system consisting of asphalt pavement, building slabs and foundations, and the use of institutional/engineering controls, under a Track 4 scenario.

Detailed descriptions of these alternatives are given in Sections 2.5.1 and 2.5.2.

The remedial program will be selected based upon due consideration of the following factors listed in Section 27-1415 of the new BCP law (Article 27, Title 14 of the Environmental Conservation Law):

- Protection of human health and the environment;
- Compliance with standards, criteria, and guidance (SCGs);
- Short-term effectiveness and impacts;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume of contamination;
- Implementability;
- Cost effectiveness;
- Community Acceptance; and,
- Land use.

Each of these factors is evaluated below for the selected remedy.

2.5.1 Unrestricted Use Alternative

An Unrestricted Use alternative would necessitate remediation of all soil/fill where concentrations exceed the unrestricted use SCO per 6 NYCRR Part 375 (see Table 1 and Figure 3 of the RIR included in Appendix B). This alternative would require the excavation and disposal all of the soil and fill located at the Site to a depth of up to 15-feet below ground surface. For Unrestricted Use scenarios, excavation and off-site disposal of impacted soil/fill is

generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. As such, the Unrestricted Use alternative assumes that the estimated total volume of impacted soil/fill that would be removed from these areas is approximately 310,000 cubic yards. This alternative assumes that groundwater remediation would be required during the removal of all impacted soil/fill. Due to the existing groundwater quality, all perched groundwater at the Sabre Park portion of the Site would be containerized and shipped off-site for disposal; however, the feasibility of treating the groundwater using an on-site treatment facility prior to disposal off-site or permitted discharge to the local sanitary sewer would be being evaluated.

Overall Protection of Public Health and the Environment

The Unrestricted Use alternative would be protective of public health and the environment in accordance with Part 375 SCOs, through the removal of all contaminated soil/fill from the Site. As such, future exposures to site-related contaminants would be eliminated; resulting in unrestricted future Site use and the Site RAOs would be met.

Other than the need for mitigation measures for residual soil vapors potentially generated from deep vadose zone soils, the Track 1 alternative would result in the elimination of all pathways of exposure from on-site contaminated media through complete removal of the material. The public health during remediation activities would be protected by implementing dust, odor, and organic vapor control and monitoring procedures as needed. The environment would be protected by implementing the selected soil erosion plans.

Compliance with SCGs

The Unrestricted Use alternative would meet the RAOs for the site, as well as all SCGs, as all contamination would be removed. There would be no need for engineering/institutional controls or environmental easements.

Short-Term Effectiveness

Implementation of the Unrestricted Use alternative would result in significant short-term impacts given the extensive volume of contaminated soil that would be excavated and removed from the site. Greater potential risks would occur to on-site workers for this alternative than the Track 4 Alternative, through direct contact with contaminated soil. Potential risks may occur to on-site workers and the surrounding community through exposure to dust and increased vehicular traffic in the area.

Other potential impacts to the community could include construction-related noise and construction-related vehicular traffic associated with removal of soils from the site. The soil to be excavated from the Site under this alternative would require removal of approximately 310,000 cubic yards of material. Considered together, the large truck volume would result in an increase in diesel emissions, increase in traffic and wear and tear to the local roadways.

Long-Term Effectiveness and Permanence

The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill; therefore, no soil/fill exceeding the unrestricted use SCOs would remain on the Site. As such, the Unrestricted Use alternative would provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume with Treatment

Through removal of all impacted soil/fill, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of Site contamination in soil and eventually groundwater (perched water).

Implementability

This alternative can be implemented using standard construction methods and equipment (e.g., hydraulic excavators). No technical implementability issues would be encountered in construction of the Unrestricted Use alternative. However, implementation of this alternative would be extremely challenging since it involves removal of historic fill present everywhere on the Site.

The work under this alternative would likely disrupt local traffic patterns as well as commercial businesses in the area. The potential for community opposition due to the closer proximity of this remediation to the nearby residential neighbors, as well as environmental impacts exists due to the expected volume of diesel emissions, traffic congestion, and other dangers these trucks pose. These factors may lessen the probability that local approvals would be granted or could result in restrictions that could increase the cost of the remedy and/or the length of the remedy construction process.

The SSD systems design is a standard, presumptive remedy in the industry. These systems can easily be incorporated into the new building design for this alternative. The SSDS sumps require access at the surface, and may be located within the buildings outside of the retail areas (e.g., maintenance closet or corridor). The piping would be routed beneath the floor slab and joined to the roof air treatment train.

Cost

The environmental capital cost of implementing an Unrestricted Use alternative is estimated at $73,080,000 which is the cost of the unrestricted use cleanup plus the environmental capital costs remedial measures completed.

As the site would be remediated to an unrestricted-use level under this alternative, there are no associated O&M costs, with the exception of maintaining the SSD Systems. A breakdown of costs associated with this alternative is included as Table 1.

Community Acceptance

This alternative should be acceptable to the community once the remedy is completed, because all of the on-site contaminated soil would be removed. However, this alternative would likely meet with community opposition and complaints during implementation given the extended construction time period and disruption to traffic patterns due to the significantly increased truck traffic

The AAR would be advertised and made available for public comment for a duration of 45 days. Community acceptance would be evaluated based on comments received from the public in response to Fact Sheets and other planned Citizen Participation activities.

Land Use

The following land use factors that were required to be analyzed in the BCP application materials are reproduced here. First, the current, intended, and reasonably anticipated future land use of the site and its surroundings are compatible with the selected remedy. The proposed use is commercial/retail, and the remedial alternatives are designed to meet Track 1 Unrestricted Use criteria. The reasonably anticipated future use of the site and its surroundings was documented by the applicant in the BCP application, which led to the following conclusions:

- The planned future use of the Site conforms to applicable zoning laws or maps or the reasonably anticipated future use of the Site. The Sabre Park parcel is currently zoned as property class 416 (Commercial), which is consistent with the proposed future property use.

- The proposed use conforms to the current use and historical and/or recent development patterns in the area.

- The Site is located in a mixed commercial and residential area, but the discovered

contamination is not believed to be impacting any off-site properties.

- The Site is accessible to existing infrastructure.

2.5.2 Hot Spot/Excess Contaminated Fill/Groundwater Removal and Institutional/Engineering Controls

The Track 4 approach presented below is a technical description of the proposed remedy in accordance with the BCP statute and the DER-10 draft regulations.

Short Description

- Excavation and removal of soil containing PCBs exceeding concentrations of 10 mg/kg;
- Excavation and removal of soil containing characteristically hazardous concentrations of chromium (>5 mg/L), as determined by TCLP analysis;
- Excavation and offsite disposal of upwards of approximately 8,000 cubic-yards of construction related spoils, exceeding the restricted commercial SCOs;
- Collection and offsite disposal of approximately 1,000,000-gallons of perched, contaminated groundwater exceeding Part 703 GA criteria.
- Engineering controls consisting of a cap/cover system throughout the Site, and vapor barriers with active sub-slab depressurization systems (SSDS) under the proposed Fashion Outlets expansion structure and proposed Secure Storage facility office building. The cap/cover system would eliminate the exposure risk of direct contact with impacted subsurface media, while the increase of impervious area at the Site would reduce subsurface water infiltration and contaminant migration. Installation of a vapor barrier and SSDS at each occupied structure would prevent the potential exposure to contaminants volatilizing from impacted soil and groundwater. The engineered cap/cover system would consist of the following:

    - Approximately 11.7-acres or landscaped area with a minimum of one-foot of material meeting the requirements of Appendix 5 (Allowable Constituent Levels for Imported Fill or Soil for Commercial Use) in the NYSDEC's guidance document DER-10, and a minimum of six inches of clay lining the detention ponds,

    - Approximately 28.9-acres of pavement with varying depths of subbase in the parking lots and drive aisles; and,

    - Approximately 7.2-acres of structural foundations at the proposed building

locations.

- An Institutional Controls Plan. Institutional controls at the Site would include groundwater use restrictions and a use restriction allowing commercial/industrial use of the Site, but preventing less restrictive land use (i.e., unrestricted or residential use);
- Waste characterization and off-Site disposal of excess fill/soil generated during construction activities associated with the proposed development.

Overall Protection of Public Health and the Environment

Under the Track 4 alternative, the potential for future exposure to contamination would be for utility, construction, or Site maintenance workers who could contact contaminated soil during excavation for site improvements or installation or repair of subsurface utilities. This alternative would reduce the potential for exposure of these workers through institutional controls, which would require notification of planned intrusive work to NYSDEC and monitoring and use of appropriate health and safety measures.

Although contaminated soil exceeding 6 NYCRR Part 375 Restricted Commercial SCOs would remain under this alternative, engineering controls in the form of surface barriers (e.g., buildings, soil cover, asphalt, and concrete) and installation of SSD Systems, and the implementation of institutional controls would preclude exposure to the remaining contamination.

Compliance with SCGs

The Track 4 alternative would be performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria. This alternative would include the excavation and off-site disposal of characteristically hazardous materials, PCBs in excess of 10 mg/kg, and implementation of institutional and engineering controls. The placement of impacted subsurface soils beneath a one foot soil cover, asphalt or concrete cap meets the requirements for Track 4 cleanups for commercial used sites, in accordance with Section 5.4 of the DER-10 guidance document. The Site Management Plan would include an excavation work plan to address any impacted soil/fill encountered during post-development maintenance activities, and a Site-wide inspection program to assure that the Institutional and Engineering controls placed on the Site have not been altered and remain effective.

Short-Term Effectiveness

The Track 4 alternative would be effective on a short-term basis, because only limited contaminated soil is removed from the ground, and a minimal volume would be transported off-

site. Potential short-term impacts would be associated with the excavation of contaminated soil, generation of dust, and increased truck traffic to remove excess soil from the Site.

For this alternative, potential exposures could occur to on-site workers through direct contact with contaminated soil, and to onsite workers and the surrounding community through exposure to dust. The excavated soil under this alternative would be significantly more manageable than the Track 1 alternative, and could conceivably be placed adjacent to the excavations and covered until backfilling, resulting in minimal handling of these soils, with minimal potential exposure, and minimal dust generation. The use of effective dust control measures and truck tarping would minimize short-term impacts from dust generation.

The time period for completing remedial construction for the Track 4 alternative would be significantly shorter than the Track 1 alternative, resulting in a shorter period for potential short-term impacts to occur to workers and the community.

Temporary safety construction fencing would be placed around the outer perimeter of the Site work area to distinguish the work zone and discourage trespassing. During soil/fill excavation and loading activities, dust monitoring would be performed to assure conformance with NYSDOH-approved community air monitoring action levels. The potential for chemical exposures and physical injuries would be reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures.

Long-Term Effectiveness and Permanence

The Track 4 alternative would include the excavation and off-site disposal of characteristically hazardous materials, PCBs in excess of 10 mg/kg, and implementation of institutional and engineering controls. Post-excavation confirmatory samples would be collected to show excavation sidewalls and bottoms meet site-specific PCB and/or NYSDEC restricted commercial SCOs, and the federal Resource Conservation and Recovery Act (RCRA) Hazardous Waste Criteria, respectively. The removal of excess contaminated soil/fill generated during construction activities would further enhance remaining on-site conditions. Impacted soils remaining on-site would be placed beneath an engineered cap/cover or the proposed buildings, preventing direct contact. Impacted groundwater would be addressed by placing an institutional control on the Site, prohibiting use of groundwater. The institutional control would also restrict the property to commercial or industrial use. The Site Management Plan would include an excavation work plan to address any residual impacted soil/fill encountered during post-development maintenance activities, and a Site-wide Inspection program to assure that the Institutional controls placed on the Site are maintained.

Reduction of Toxicity, Mobility, or Volume with Treatment

The Track 4 alternative would reduce the toxicity, mobility, and volume of Site contamination through removal of PCB-impacted soil/fill exceeding the site-specific SCO (10 mg/kg) and characteristically hazardous chromium-impacted soil/fill exceeding the RCRA Hazardous Waste Criteria, off-site disposal of excess contaminated soil/fill generated during construction activities, and the off-site disposal or on-site treatment of impacted groundwater. The proposed development significantly increases the impervious surface area at the Site and incorporates detention basins that would be lined with clay, which would greatly reduce the subsurface water infiltration and contaminant mobility. However, contaminated soil would still remain on the Site (in the historic fill) through this alternative.

The presence of surface barriers throughout the Site and installation of SSD systems would permanently reduce the mobility of Site-related COCs.

Implementability

This alternative would consist mostly of limited excavation of soil with standard bucket excavators for construction purposes, on-site soil management, either re-use or off-site transport and disposal, and the backfilling, grading, paving, and construction of the cap/cover system. No technical or action-specific administrative implementability issues are associated with implementation of this alternative or the SMP. All necessary experienced labor, equipment and supplies are readily available. Permits associated with this alternative should be easily obtained. There is sufficient capacity at disposal and treatment facilities in the region to receive the limited volumes of contaminated materials removed from the Site. An Environmental Easement would be filed with the Town of Niagara documenting the controls placed on the Site.

The SSD systems design is a standard, presumptive remedy in the industry. These systems can easily be incorporated into the new building design for this alternative. The SSDS sumps require access at the surface, and may be located within the buildings outside of the retail areas (e.g., maintenance closet or corridor). The piping would be routed beneath the floor slab and joined to the roof air treatment train.

Cost

The environmental capital cost of this remedial approach would be approximately $10,410,000. O&M costs would include maintenance of the site wide composite capping/cover system and maintaining the SSD Systems. A breakdown of costs associated with this alternative is included as Table 2.

Community Acceptance

This alternative should be equally acceptable to the community because they would have minimal impacts to the community during implementation, the potential for human exposure to on-site contamination would be minimized, and the site would be redeveloped into an attractive use.

The AAR would be advertised and made available for public comment for a duration of 45 days. Community acceptance would be evaluated based on comments received from the public in response to Fact Sheets and other planned Citizen Participation activities.

Land Use

The following land use factors that were required to be analyzed in the BCP application materials are reproduced here. First, the current, intended, and reasonably anticipated future land use of the site and its surroundings are compatible with the selected remedy. The proposed use is commercial/retail, and the remedial alternatives are designed to meet Track 4 Site-specific and NYSDEC Part 375 Restricted Commercial criteria. The reasonably anticipated future use of the site and its surroundings was documented by the applicant in the application, which led to the following conclusions:

- The planned future use of the Site conforms to applicable zoning laws or maps or the reasonably anticipated future use of the Site. The Sabre Park parcel is currently zoned as property class 416 (Commercial), which is consistent with the proposed future property use.
- The proposed use conforms to the current use and historical and/or recent development patterns in the area.
- The Site is located in a mixed commercial and residential area, but the discovered contamination is not believed to be impacting any off-site properties.
- The Site is accessible to existing infrastructure.

3.0 RECOMMENDED REMEDIAL ALTERNATIVE

Based on the evaluation of the remedial alternatives described above, both alternatives would be protective of human health and the environment and meet the remedy selection criteria. Implementation of the Track 1 alternative provides for removal of all shallow on-site soil/fill contamination, and would not rely on long-term engineering or institutional controls. However,

unacceptable short-term impacts to the surrounding community would occur for this alternative, from the extended period of excavation, increased truck traffic, construction noise, and potential for exposure to contaminated dust associated with the removal of significantly greater volume of soil. Additionally, the cost for the Track 1 alternative is prohibitive compared to the Track 4 alternative.

The Track 4 alternative can be implemented in conjunction with proposed site development. A significant component of the remedy, i.e., engineering controls in the form of construction of new impermeable surface cover/cap, is already incorporated into the construction documents. The SSD systems can be operated efficiently, safely, and with little disruption to the commercial operations. The SSD systems would facilitate mitigation of the long-term source of sub-slab vapors, thereby resulting in earlier termination of the SSDS operation.

The Track 4 alternative can be implemented in a cost-effective and safe manner using established methods and providing for the long-term and short-term protection of human health and the environment.

The Track 4 alternative is the recommended remedial alternative for this Site.

TABLES

TABLE 1: REMEDIATION COST ESTIMATE
Alternative I - Unrestricted Use Alternative
Fashion Outlets of Niagara Falls

Item No.	Description	Estimated Quantity	Unit	Unit Price	Cost
1	Mobilization, Demobilization, & Permits	1	Lump Sum	$10,000	$10,000
2	Soil Excavation, Stockpile and Loading	310,000	Cubic Yard	$20	$6,200,000
3	Transport and Disposal of Contaminated, Hazardous Material	1,480	Tons	$200	$296,000
4	Transport and Disposal of Non-Hazardous Material	500,000	Tons	$50	$25,000,000
5	Endpoint Sampling	2,500	Samples	$600	$1,500,000
6	Dewatering / Fluid Treatment	10,325,000	Gallon	$1.50	$15,487,500
7	Backfill/ Compact with Gravel	310,000	Cubic Yard	$40	$12,400,000
				Total Capitol Cost	$60,893,500
				Administration, Insurance, & Engineering (20%)	$12,178,700
				Total Estimated Cost for Remediation	**$73,080,000**

Line Item Notes

1 Includes items such as mobilization and demobilization of all labor, equipment, and materials necessary to excavate, transport, and dispose the targeted soil. Also includes any project related permit or regulation fees (excludes potential hazardous waste fees).

2 Soil Excavation assumes excavation/handling costs for the Niagara Falls area. Based on an average depth of excavation of 4 feet across the site (48 acres).

3 Contaminated, Hazardous material transport and disposal assumes union disposal costs for the Niagara Falls area. Density factor of 1.6 tons per CY. Assumed 60% of excavated material falls into this category.

4 Contaminated, Non-hazardous material transport and disposal assumes union disposal costs for the Niagara Falls area. Density factor of 1.6 tons per CY. Assumed 40% of excavated materials falls into this category.

5 Soil endpoint characterization costs includes sample collection and analysis of endpoint samples. Assume endpoint sample frequency will be 1 samples per 20 linear foot of sidewall and 1 sample per 900 square foot of excavation base plus quality control samples.

6 Accounts for containerizing and off-site transporation & disposal of groundwater encountered during site-wide excavation. Volume based on area side (48 acres), fill porosity of 30%, and 2 feet of water within the excavation.

7 Backfill import, preparation and placement with clean gravel.

TABLE 2: REMEDIATION COST ESTIMATE
Alternative II - Track 4 Remediation
Fashion Outlets of Niagara Falls

Item No.	Description	Estimated Quantity	Unit	Unit Price	Cost
1	Mobilization, Demobilization, Permits, Maintain Site	1	Lump Sum	$50,000	$50,000
2	Soil Excavation, Stockpile and Loading	35,000	Cubic Yard	$20	$700,000
3	Transport and Disposal of Hazardous Material (Chromium >5 mg/L)	1,480	Tons	$275	$407,000
4	Transport and Disposal of Contaminated Material (PCBs >10 mg/kg)	835	Tons	$195	$162,825
5	Transport and Disposal of Non-Hazardous Contaminated Soil/Fill	12,000	Tons	$50	$600,000
6	Endpoint Sampling	30	Samples	$600	$18,000
7	Waste Characterization	1	Lump Sum	$100,000	$100,000
8	Backfill/ Compact with Gravel	1,500	Cubic Yard	$40	$60,000
9	Dewatering / Fluid Treatment	1,000,000	Gallon	$1.50	$1,500,000
10	Vapor Barrier	1	Lump Sum	$476,000	$476,000
11	Subslab Depressurization Systems	1	Lump Sum	$400,000	$400,000
12	Composite Capping/Cover System - Concrete/Asphalt/Landscaping	1	Lump Sum	$4,200,000	$4,200,000
				Total Capitol Cost	$8,673,825
				Administration, Insurance, & Engineering (20%)	$1,734,765
				Total Estimated Cost for Remediation	**$10,410,000**

Line Item Notes

1 Includes items such as mobilization and demobilization of all labor, equipment, and materials necessary to excavate, transport, and dispose the targeted soil. Also includes any project related permit or regulation fees (excludes potential hazardous waste fees).

2 Soil Excavation assumes excavation/handling costs for the Niagara Falls area. Based on removal of PCB-impacted soil above 10mg/kg, and assumed excavation depth of 10 feet below grade and a footprint of 50 feet by 50 feet; removal of characteristically hazardous chromium-impacted soil above RCRA Hazardous Waste Criteria, and assumed excavation depth of 10 feet below grade and a footprint of 75 feet by 20 feet. Also includes surplus soil generated during construction of proposed development (upwards of approximately 8,000 CY), and additional fill/soil reuse (assumed 14,000 CY $\pm$)

3 Hazardous chromium-contaminated material transport and disposal assumes union disposal costs for the Niagara Falls area. Density factor of 1.6 tons per CY.

4 Non-hazardous PCB-contamianted material transport and disposal assumes union disposal for the Niagara Falls area. Density factor of 1.6 tons per CY

5 Accounts for off-site disposal of surplus soil generated during construction of proposed development. Assumes upwards of approximately 8,000 cubic yards, and non-hazardous material. Density factor of 1.5 tons per CY

6 Soil endpoint characterization costs includes sample collection and analysis of endpoint samples. Assume endpoint sample frequency will be 1 samples per 20 linear foot of sidewall and 1 sample per 900 square foot of excavation base plus quality control samples.

7 Waste characterization sampling to support disposal or soil/fill.

8 Backfill import, preparation and placement with clean gravel (for hot spot excavations)

9 Accounts for containerizing and off-site transporation & disposal of groundwater encountered during construction. Volume based on area of ponds (225,000 square feet), fill porosity of 30%, and 3 feet of water within the fill layer.

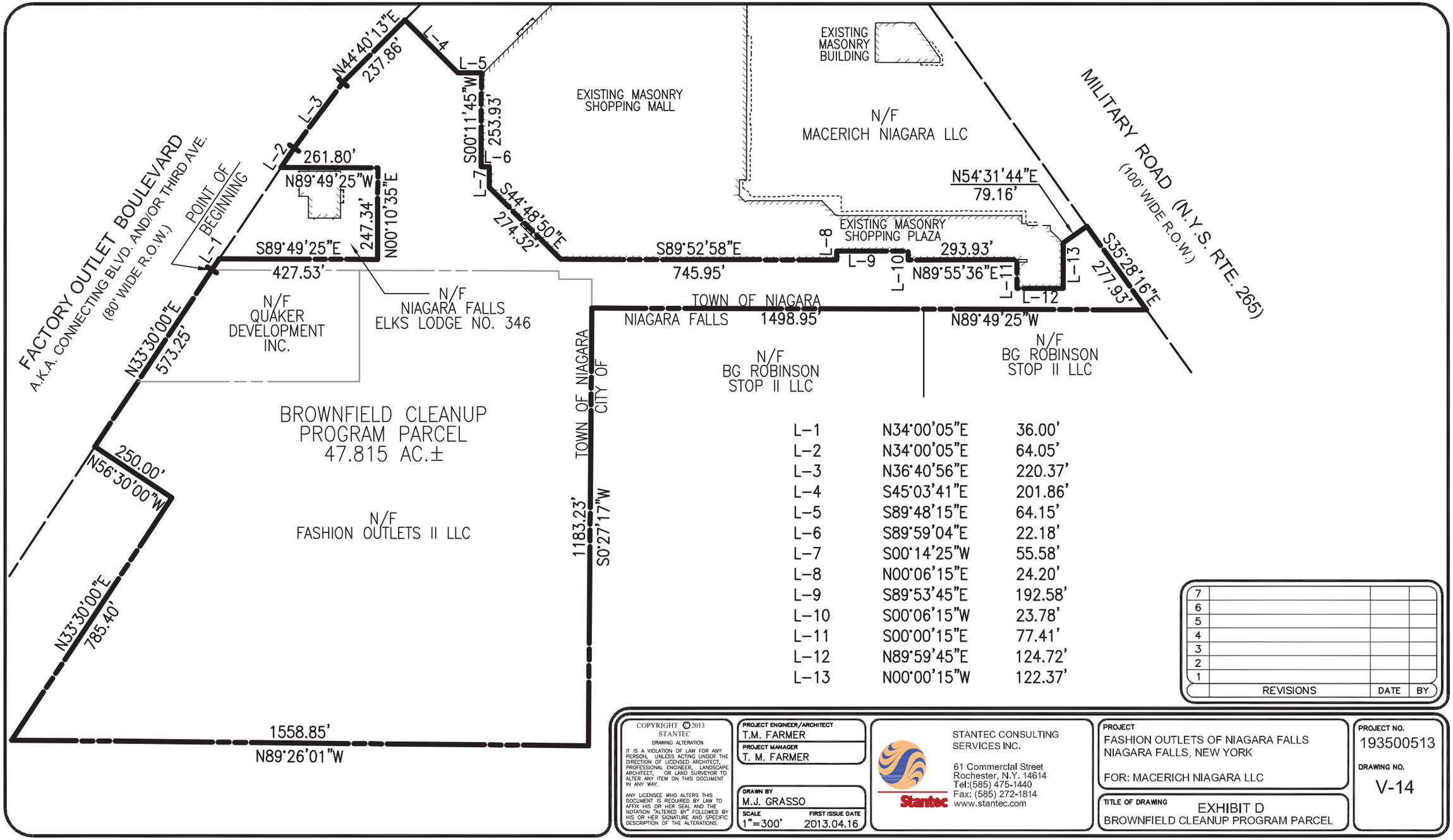
10 Accounts for the installation of a vapor barrier membrane at the interface of the concrete slab and the site sub-grade materials and on all sub-grade wall. Assume 225,000 sq ft of membrane for mall expansion, and 13,000 square feet for Secure Storage facility office at $2 per sq ft.

11 Accounts for installation of subslab depressurization systems (SSDS) beneath vapor barrier at mall expansion and Secure Storage facility office. Assumes $250,000 for mall expansion SSDS, and $150,000 for Secure Storage facility office

12 Estimated costs provided by contractors bidding on the project.

APPENDIX A

METES AND BOUNDS



L-1	N34°00'05"E	36.00'
L-2	N34°00'05"E	64.05'
L-3	N36°40'56"E	220.37'
L-4	S45°03'41"E	201.86'
L-5	S89°48'15"E	64.15'
L-6	S89°59'04"E	22.18'
L-7	S00°14'25"W	55.58'
L-8	N00°06'15"E	24.20'
L-9	S89°53'45"E	192.58'
L-10	S00°06'15"W	23.78'
L-11	S00°00'15"E	77.41'
L-12	N89°59'45"E	124.72'
L-13	N00°00'15"W	122.37'

	REVISIONS	DATE	BY
7			
6			
5			
4			
3			
2			
1			

PROJECT ENGINEER/ARCHITECT: T.M. FARMER
PROJECT MANAGER: T. M. FARMER
DRAWN BY: M.J. GRASSO
SCALE: 1"=300'
FIRST ISSUE DATE: 2013.04.16

STANTEC CONSULTING SERVICES INC.
61 Commercial Street
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PROJECT: FASHION OUTLETS OF NIAGARA FALLS
NIAGARA FALLS, NEW YORK
FOR: MACERICH NIAGARA LLC

TITLE OF DRAWING: EXHIBIT D
BROWNFIELD CLEANUP PROGRAM PARCEL

PROJECT NO.: 193500513
DRAWING NO.: V-14

193500513
D010
April 16, 2013

EXHIBIT D

Description of Brownfield Cleanup Program Parcel

All that tract or parcel of land containing 47.815 acres, more or less, situate in the Town of Niagara, County of Niagara, State of New York, all as shown on a map entitled “Fashion Outlets of Niagara Falls, Brownfield Cleanup Program Parcel”, prepared by Stantec Consulting Services, Inc. dated April 16, 2013, having drawing number 193500513 V-14, and being more particularly bounded and described as follows:

Beginning at a point of intersection of the easterly line of Factory Outlet Blvd. a.k.a. Connecting Blvd and/or Third Avenue (80 feet wide) with the northerly line of lands now or formerly of Quaker Development, Inc. said line also being the southerly line of lands of Macerich Niagara LLC; thence

1. N 34^0 00’ 05” E ,along said easterly line of Factory Outlet Blvd., a distance of 36.00 feet to a point of intersection with the southerly line of lands now or formerly of the Niagara Falls Elks Lodge No. 346; thence
2. S 89^0 49’ 25” E, along the last mentioned southerly line, a distance of 427.53 feet to a point of intersection with the easterly line of said lands; thence
3. N 00^0 10’ 35” E, along the last mentioned easterly line a distance of 247.34 feet to the point at the northeasterly corner of said lands; thence
4. N 89^0 49’ 25” W, along the northerly line of said lands, a distance of 261.80 feet to a point of intersection with the aforementioned easterly line of Factory Outlet Blvd. ; thence the following three (3) courses along said easterly line
5. N 34^0 00’ 05” E, a distance of 64.05 feet to a point; thence
6. N 36^0 40’ 56” E, a distance of 220.37 feet to a point; thence
7. N 44^0 40’ 13” E, a distance of 237.86 feet to a point; thence the following fifteen (15) courses through said lands of Macerich Niagara LLC
8. S 45^0 03’ 41” E, a distance of 201.86 feet to a point; thence
9. S 89^0 48’ 15” E, a distance of 64.15 feet to a point; thence
10. S 00^0 11’ 45” W, a distance of 253.93 feet to a point; thence
11. S 89^0 59’ 04” E, a distance of 22.18 feet to a point; thence
12. S 00^0 14’ 25” W, a distance of 55.58 feet to a point; thence
13. S 44^0 48’ 50” E, a distance of 274.32 feet to a point; thence
14. S 89^0 52’ 58” E, a distance of 745.95 feet to a point; thence
15. N 00^0 06’ 15” E, a distance of 24.20 feet to a point; thence
16. S 89^0 53’ 45” E, a distance of 192.58 feet to a point; thence
17. S 00^0 06’ 15” W, a distance of 23.78 feet to a point; thence
18. N 89^0 55’ 36” E, a distance of 293.93 feet to a point; thence
19. S 00^0 00’ 15” E, a distance of 77.41 feet to a point; thence
20. N 89^0 59’ 45” E, a distance of 124.72 feet to a point; thence
21. N 00^0 00’ 15” W, a distance of 122.37 feet to a point; thence
22. N 54^0 31’ 44” E, a distance of 79.16 feet to a point of intersection with the southwesterly line of Military Road (100 feet wide); thence

23. S 35^0 28’ 16” E, along said southwesterly line, a distance of 277.93 feet to a point of intersection with the southerly line of the aforementioned lands of Macerich Niagara LLC; thence
24. N 89^0 49’ 25” W, along said southerly line, a distance of 1498.95 feet to a point of intersection with the easterly line of lands now or formerly of Fashion Outlets II LLC; thence
25. S 00^0 27’ 17” W, along said easterly line, a distance of 1183.23 feet to a point at the southeasterly corner of said lands; thence
26. N 89^0 26’ 01” W, along the southerly line of said lands, a distance of 1558.85 feet to a point; thence
27. N 33^0 30’ 00” E, along the westerly line of said lands, a distance of 785.40 feet to a point; thence
28. N 56^0 30’ 00” W, along the westerly line of said lands, a distance of 250.00 feet to a point of intersection with the aforementioned easterly line of Factory Outlet Blvd.; thence
29. N 33^0 30’ 00” E, along the aforementioned easterly line of Factory Outlet Blvd., a distance of 573.25 feet to the Point or Place of Beginning.

Subject to any easements or encumbrances of record.

APPENDIX B

SELECTED RI REPORT SUMMARY DATA TABLES AND FIGURES

Table 1
Sample Location Details
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LTP-1	Soil Boring	Sabre Park	1041865.509	1128531.474	572.459	6/28/2013	LTP-1A	1 - 3	13 (Refusal)
LTP-2	Soil Boring	Sabre Park	1042086.147	1128532.15	572.282	6/28/2013	LTP-2A	1 - 3	12.9 (Refusal)
							LTP-2B	4 - 6	
LTP-3	Soil Boring	Sabre Park	1042247.201	1128524.41	572.696	6/28/2013	LTP-3A	1 - 3	13.5 (Refusal)
LTP-13	Soil Boring	Sabre Park	1041656.243	1128246.457	573.053	6/26/2013	LTP-13A	2 - 4	14.3 (Refusal)
							LTP-13B	12 - 14	
LTP-45	Soil Boring	Sabre Park	1041138.362	1127591.569	574.222	7/2/2013	LTP-45A	1.5 - 3.5	16
							LTP-45B	6 - 8	
LSB-1	Soil Boring	Mall Parking Lot	1041894.931	1129158.118	574.33	6/27/2013	LSB-1A	2 - 4	13.8 (Refusal)
							LSB-1B	5.5 - 7.5	
LSB-2	Soil Boring	Mall Parking Lot	1041717.432	1128985.078	574.068	6/27/2013	LSB-2A	2 - 4	14.2 (Refusal)
							LSB-2B	10 - 12	
LSB-3	Soil Boring	Mall Parking Lot	1041876.121	1129071.41	573.68	6/27/2013	LSB-3A	1 - 3	12.5
							LSB-3B	6 - 8	
LSB-4	Soil Boring	Mall Parking Lot	1041811.096	1128982.859	574.284	6/27/2013	LSB-4A	4 - 4.67	16
							LSB-4B	4.67 - 6.67	
LSB-5	Soil Boring	Mall Parking Lot	1041917.061	1128968.103	572.904	6/27/2013	LSB-5A	2 - 4	11.8 (Refusal)
							LSB-5B	10 - 12	
LSB-6	Soil Boring	Mall Parking Lot	1042067.568	1129038.761	572.226	6/26/2013	LSB-6A	3 - 5	11.2 (Refusal)
							LSB-6B	10 - 12	
LSB-7	Soil Boring	Mall Parking Lot	1042067.715	1128963.508	572.469	6/26/2013	LSB-7A	3 - 5	10.5 (Refusal)
							LSB-7B	8 - 10	
LSB-8	Soil Boring	Mall Parking Lot	1041673.11	1128863.522	573.512	6/27/2013	LSB-8A	1.5 - 3.5	12.8 (Refusal)
							LSB-8B	6 - 8	
LSB-9	Soil Boring	Mall Parking Lot	1041817.221	1128839.774	573.841	6/27/2013	LSB-9A	4 - 6	13 (Refusal)
							LSB-9B	8 - 10	
LSB-10	Soil Boring	Mall Parking Lot	1041907.358	1128869.841	572.973	6/27/2013	LSB-10A	1.5 - 4	16
							LSB-10B	4 - 6	
LSB-11	Soil Boring	Mall Parking Lot	N/A[1]	N/A[1]	N/A[1]	6/24/2013	LSB-11A	1 - 3	12.5 (Refusal)
							LSB-11B	4 - 6	
LSB-12	Soil Boring	Mall Parking Lot	1042067.33	1128865.488	572.251	6/26/2013	LSB-12A	2 - 4	11.5 (Refusal)
							LSB-12B	6 - 8	
LSB-13	Soil Boring	Mall Parking Lot	1042064.082	1128729.344	571.843	6/26/2013	LSB-13A	3 - 4	10.8 (Refusal)
LSB-14	Soil Boring	Mall Parking Lot	1041672.459	1128547.147	572.338	6/27/2013	LSB-14A	1 - 3	13.6 (Refusal)
							LSB-14B	4 - 5.5	

Table 1
Sample Location Details
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LSB-15	Soil Boring	Mall Parking Lot	1041834.545	1128645.829	573.166	6/27/2013	LSB-15A	1 - 3	13.6 (Refusal)
							LSB-15B	5 - 7	
LSB-16	Soil Boring	Mall Parking Lot	1041939.052	1128644.132	572.489	6/27/2013	LSB-16A	2.5 - 4.5	12.2 (Refusal)
							LSB-16B	6 - 8	
LSB-17	Soil Boring	Mall Parking Lot	1042022.168	1128623.986	572.057	6/27/2013	LSB-17A	2 - 4	16
							LSB-17B	10 - 12	
LSB-18	Soil Boring	Mall Parking Lot	1042164.949	1128660.057	572.266	6/26/2013	LSB-18A	1 - 3	11.8 (Refusal)
							LSB-18B	9.5 - 11.5	
LSB-19	Soil Boring	Mall Parking Lot	N/A[1]	N/A[1]	N/A[1]	6/24/2013	LSB-19A	1 - 3	12
							LSB-19B	4 - 6	
LSB-20	Soil Boring	Storage Facility	N/A[1]	N/A[1]	N/A[1]	6/24/2013	LSB-20A	2 - 4	12
							LSB-20B	6 - 8	
LSB-21	Soil Boring	Storage Facility	1041336.998	1128473.958	573.236	6/26/2013	LSB-21A	2 - 4	13.9 (Refusal)
							LSB-21B	4 - 6	
LSB-22	Soil Boring	Storage Facility	1041498.829	1128471.633	573.808	6/26/2013	LSB-22A	2 - 4	13 (Refusal)
							LSB-22B	5 - 7	
LSB-23	Soil Boring	Storage Facility	1041480.178	1128296.948	574.122	6/26/2013	LSB-23A	2 - 4	15.6 (Refusal)
							LSB-23B	6 - 8	
			1041479.323	1128287.667	573.618	7/2/2013	LSB-23S	3 - 4	--
LSB-24	Soil Boring	Storage Facility	1041559.895	1128378.914	574.068	6/26/2013	LSB-24A	3 - 5	15.5 (Refusal)
							LSB-24B	5 - 7	
LSB-25	Soil Boring	Storage Facility	1041688.254	1128437.219	573.516	6/26/2013	LSB-25A	3 - 5	15.9 (Refusal)
							LSB-25B	10 - 12	
LSB-26	Soil Boring	Storage Facility	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LSB-26A	4 - 6	12
							LSB-26B	10 - 12	
LSB-27	Soil Boring	Sabre Park	1041893.141	1128312.015	573.491	6/25/2013	LSB-27A	2 - 4	16
							LSB-27B	14 - 16	
LSB-28	Soil Boring	Sabre Park	1042126.336	1128459.441	573.599	6/25/2013	LSB-28A	1 - 3	13.5 (Refusal)
							LSB-28B	4 - 5.5	
LSB-29	Soil Boring	Sabre Park	1042327.494	1128313.277	574.564	6/26/2013	LSB-29A	2 - 4	16
							LSB-29B	10 - 12	
LSB-30	Soil Boring	Storage Facility	1041236.26	1128251.141	573.068	6/26/2013	LSB-30A	4 - 6	16
LSB-32	Soil Boring	Storage Facility	1041444.138	1128237.969	573.728	6/26/2013	LSB-32A	3 - 5	16
							LSB-32B	6 - 8	

Table 1
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1705 Factory Outlet Boulevard
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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LSB-34	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/26/2013	LSB-34A	3 - 4.5	16
							LSB-34B	6 - 8	
LSB-35	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LSB-35A	2 - 4	12
							LSB-35B	4 - 5.5	
LSB-36	Soil Boring	Sabre Park	1042270.395	1128107.452	574.926	6/26/2013	LSB-36A	1 - 3	16
							LSB-36B	10 - 12	
LSB-40	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/26/2013	LSB-40A	4 - 6	16
							LSB-40B	6 - 8	
LSB-41	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/26/2013	LSB-41A	3 - 5	16
							LSB-41B	10 - 12	
LSB-42	Soil Boring	Sabre Park	1042323.619	1127963.308	573.992	6/26/2013	LSB-42A	3 - 5	16
							LSB-42B	10 - 12	
LSB-43	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LSB-43A	2 - 4	16
							LSB-43B	6 - 8	
LSB-46	Soil Boring	Sabre Park	1042039.727	1127904.792	575.055	6/26/2013	LSB-46A	2 - 4	16
							LSB-46B	4 - 6	
LSB-47	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LSB-47A	2 - 4	16
							LSB-47B	10 - 12	
LSB-48	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/28/2013	LSB-48A	4 - 6	16
							LSB-48B	6 - 7.5	
LSB-49	Soil Boring	Sabre Park	1041055.605	1127544.081	575.079	7/2/2013	LSB-49A	1.5 - 3.5	16
							LSB-49B	4 - 6	
LSB-57	Soil Boring	Sabre Park	1040955.147	1127416.234	575.682	7/2/2013	LSB-57A	2 - 4	16
							LSB-57B	5 - 7	
LSB-61	Soil Boring	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LSB-61A	1.5 - 3.5	16
							LSB-61B	6 - 8	
LSB-64	Soil Boring	Mall Parking Lot	1042440.888	1128475.239	572.008	6/28/2013	LSB-64A	1 - 3	12.3 (Refusal)
							LSB-64B	4 - 6	
LSB-65	Soil Boring	Mall Parking Lot	1042547.212	1128471.388	571.992	6/28/2013	LSB-65A	1 - 3	12.9 (Refusal)
							LSB-65B	5.75 - 7.75	
LSB-66	Soil Boring	Mall Parking Lot	1042650.391	1128486.888	571.947	6/28/2013	LSB-66A	1 - 3	11.5 (Refusal)
							LSB-66B	10 - 12	
LSB-67	Soil Boring	Mall Parking Lot	1042754.302	1128469.309	571.874	6/28/2013	LSB-67A	1 - 3	10.8 (Refusal)
							LSB-67B	5 - 7	

Table 1
Sample Location Details
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LSB-68	Soil Boring	Mall Parking Lot	1042797.453	1128486.647	572.087	6/28/2013	LSB-68A	1 - 2	10.3 (Refusal)
							LSB-68B	2 - 4	
LSB-69	Soil Boring	Mall Parking Lot	1042962.731	1128481.005	571.718	6/27/2013	LSB-69A	1 - 3	10.3 (Refusal)
							LSB-69B	5 - 7	
LSB-70	Soil Boring	Mall Parking Lot	1043147.772	1128556.277	572.003	6/27/2013	LSB-70A	0.42 - 1.25	10.5 (Refusal)
							LSB-70B	2 - 4	
LSB-71	Soil Boring	Mall Parking Lot	1043039.166	1128482.467	571.906	6/27/2013	LSB-71A	2 - 2.75	10.5 (Refusal)
							LSB-71B	4.75 - 5.8	
LSB-72	Soil Boring	Mall Parking Lot	1043198.156	1128484.987	572.036	6/27/2013	LSB-72A	1 - 3	11.3 (Refusal)
							LSB-72B	9 - 11	
LSB-73	Soil Boring	Mall Parking Lot	1043278.551	1128484.898	571.965	6/27/2013	LSB-73A	1 - 3	11.8 (Refusal)
							LSB-73B	6 - 8	
LSB-74	Soil Boring	Mall Parking Lot	1043372.684	1128487.227	572.241	6/27/2013	LSB-74A	1 - 3	13.5 (Refusal)
LSB-75	Soil Boring	Mall Parking Lot	1043471.591	1128481.159	572.356	6/27/2013	LSB-75A	1 - 3	13.8 (Refusal)
							LSB-75B	10 - 12	
LSB-76	Soil Boring	Mall Parking Lot	1043781.658	1128451.042	572.867	6/28/2013	LSB-76A	2 - 4	14.6 (Refusal)
							LSB-76B	4 - 6	
LSB-31	Test Pit	Sabre Park	1041275.997	1128153.488	574.108	6/27/2013	LSB-31A	0 - 2	10
							LSB-31B	2 - 4	
							MS/MSD-4	0 - 2	
LSB-33	Test Pit	Sabre Park	1041612.73	1128122.686	575.303	6/27/2013	LSB-33A	0 - 2	10
							LSB-33B	4 - 6	
LSB-37	Test Pit	Sabre Park	1041612.73	1128122.686	575.303	6/28/2013	LSB-37A	5 - 7	10
							LSB-37B	8 - 10	
							MS/MSD-5	5 - 7	
LSB-38	Test Pit	Sabre Park	1041363.382	1127999.215	574.157	6/28/2013	LSB-38A	0 - 2	8
							LSB-38B	2 - 4	
LSB-39	Test Pit	Sabre Park	1041545.967	1127896.955	575.175	7/3/2013	LSB-39A	3 - 5	10
							LSB-39B	6 - 8	
LSB-44	Test Pit	Sabre Park	1041450.697	1127832.006	574.45	7/3/2013	LSB-44A	1 - 3	8
							LSB-44B	5 - 7	
LSB-45	Test Pit	Sabre Park	1041639.572	1127692.17	575.455	7/2/2013	LSB-45A	1.1 - 3.3	8.8
							LSB-45B	3.3 - 4.3	

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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LSB-50	Test Pit	Sabre Park	1041229.616	1127624.649	574.648	7/1/2013	LSB-50A	2 - 4	10
							LSB-50B	5 - 7	
LSB-51	Test Pit	Sabre Park	1041372.409	1127464.492	575.283	7/1/2013	LSB-51A	0.5 - 1.5	8
							LSB-51B	1.5 - 3	
LSB-52	Test Pit	Sabre Park	1041640.582	1127613.173	574.706	7/1/2013	LSB-52A	0 - 2	4
							LSB-52B	2 - 4	
LSB-53	Test Pit	Sabre Park	1041485.686	1127296.617	574.898	6/29/2013	LSB-53A	0.5 - 1	2
LSB-54	Test Pit	Sabre Park	1042068.683	1127600.405	574.851	6/28/2013	LSB-54A	0 - 2	10
							LSB-54B	2 - 4	
LSB-55	Test Pit	Sabre Park	1042246.283	1127478.498	574.409	6/29/2013	LSB-55A	0 - 2	6 (Refusal)
							LSB-55B	2 - 4	
LSB-56	Test Pit	Sabre Park	1042246.283	1127478.498	574.409	7/3/2013	LSB-56A	0 - 2	9
							LSB-56B	3 - 5	
LSB-58	Test Pit	Sabre Park	1041244.751	1127311.257	575.149	7/3/2013	LSB-58A	0 - 2	6
							LSB-58B	2 - 4	
LSB-59	Test Pit	Sabre Park	N/A[1]	N/A[1]	N/A[1]	7/3/2013	LSB-59A	0 - 2	7
							LSB-59B	2 - 4	
LSB-60	Test Pit	Sabre Park	1041639.257	1127411.07	575.053	6/30/2013	LSB-60A	1 - 3	10
							LSB-60B	8 - 10	
							FD-10	8 - 10	
LSB-62	Test Pit	Sabre Park	1042111.359	1127424.039	574.902	6/30/2013	LSB-62A	0 - 2	4
LSB-63	Test Pit	Sabre Park	1042200.025	1127293.584	575.026	6/30/2013	LSB-63A	3 - 5	10
							LSB-63B	5 - 7	
							MS/MSD-12	5 - 7	
LTP-4	Test Pit	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/25/2013	LTP-4A	1 - 3	10
							LTP-4B	8 - 10	
LTP-5	Test Pit	Sabre Park	1041919.209	1128440.536	573.75	6/25/2013	LTP-5A	1 - 2	10
							LTP-5B	8 - 10	
LTP-6	Test Pit	Sabre Park	1042008.198	1128433.059	573.794	6/25/2013	LTP-6A	1 - 2.5	10
							LTP-6B	8 - 10	
LTP-7	Test Pit	Sabre Park	1042031.617	1128317.64	573.4	6/25/2013	LTP-7A	1 - 3	11
							LTP-7B	2 - 4	
LTP-8	Test Pit	Sabre Park	1042315.009	1128429.938	574.36	6/25/2013	LTP-8A	2 - 4	11
							LTP-8B	6 - 8	

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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LTP-9	Test Pit	Sabre Park	1042227.096	1128439.623	573.818	6/25/2013	LTP-9A	1 - 2.5	10
							LTP-9B	8 - 10	
LTP-10	Test Pit	Sabre Park	1041186.103	1128149.862	573.188	6/27/2013	LTP-10A	1 - 2	10
							LTP-10B	3 - 4	
LTP-11	Test Pit	Sabre Park	1041414.132	1128114.047	574.443	6/27/2013	LTP-11A	1 - 3	11.5
							LTP-11B	5 - 7	
LTP-12	Test Pit	Sabre Park	1041414.132	1128114.047	574.443	6/27/2013	LTP-12A	0 - 2	10
							LTP-12B	4 - 6	
							FD-3	4 - 6	
LTP-14	Test Pit	Sabre Park	1041689.749	1128123.049	574.768	6/27/2013	LTP-14A	0 - 2	10
							LTP-14B	2 - 4	
LTP-15	Test Pit	Sabre Park	1041799.041	1128123.426	574.541	6/27/2013	LTP-15A	3 - 5	10
							LTP-15B	6 - 8	
							MS/MSD-3	6 - 8	
LTP-16	Test Pit	Sabre Park	1041944.328	1128103.587	574.486	6/26/2013	LTP-16A	3 - 5	10.5
							LTP-16B	7 - 9	
LTP-17	Test Pit	Sabre Park	1042146.011	1128241.817	573.951	6/25/2013	LTP-17A	1 - 3	10
							LTP-17B	8 - 10	
LTP-18	Test Pit	Sabre Park	1042024.65	1128144.782	574.213	6/26/2013	LTP-18A	1 - 3	10
							LTP-18B	8 - 10	
LTP-19	Test Pit	Sabre Park	1042216.644	1128237.439	573.888	6/25/2013	LTP-19A	3 - 5	11.5
							LTP-19B	9 - 11	
LTP-20	Test Pit	Sabre Park	1042340.139	1128226.739	574.726	6/25/2013	LTP-20A	1 - 3	10.5
							LTP-20B	7 - 9	
LTP-21	Test Pit	Sabre Park	1041138.825	1128036.337	573.599	6/27/2013	LTP-21A	3 - 5	11.5
							LTP-21B	5 - 7	
LTP-22	Test Pit	Sabre Park	1041215.903	1128016.209	573.887	6/27/2013	LTP-22A	2 - 4	6
							FD-4	2 - 4	
LTP-23	Test Pit	Sabre Park	1041501.497	1128019.603	575.041	6/28/2013	LTP-22A	4 - 6	10
							LTP-22B	6.5 - 8.5	
							FD-5	6.5 - 8.5	
LTP-24	Test Pit	Sabre Park	1041422.95	1127915.153	574.457	7/2/2013	LTP-24A	0 - 2	8
							LTP-24B	3 - 5	
LTP-25	Test Pit	Sabre Park	1041689.681	1128021.936	574.828	6/27/2013	LTP-25A	1 - 3	10
							LTP-25B	3 - 5	

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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LTP-26	Test Pit	Sabre Park	1041691.543	1127907.927	574.805	7/2/2013	LTP-26A	3 - 5	8
							LTP-26B	6 - 8	
							FD-13	3 - 5	
LTP-27	Test Pit	Sabre Park	1041801.603	1127914.026	574.799	7/2/2013	LTP-27A	0 - 2	8
							LTP-27B	6 - 8	
							FD-14	6 - 8	
LTP-28	Test Pit	Sabre Park	1041908.36	1127934.739	574.165	6/26/2013	LTP-28A	4 - 6	10
							LTP-28B	6 - 8	
LTP-29	Test Pit	Sabre Park	1041968.454	1128006.307	574.622	6/26/2013	LTP-29A	0 - 2	10
							LTP-29B	2 - 4	
LTP-30	Test Pit	Sabre Park	1042154.543	1128021.059	574.814	6/26/2013	LTP-30A	1 - 3	10.5
							LTP-30B	4 - 6	
LTP-31	Test Pit	Sabre Park	1042244.021	1128026.605	574.276	6/26/2013	LTP-31A	4 - 6	10
							LTP-31B	7 - 9	
							MS/MSD-2	7 - 9	
LTP-32	Test Pit	Sabre Park	1042198.532	1127909.929	574.426	6/26/2013	LTP-32A	1 - 2	10
							LTP-32B	4 - 6	
							FD-2	1 - 2	
LTP-33	Test Pit	Sabre Park	1041261.133	1127828.395	573.575	7/2/2013	LTP-33A	3 - 5	7.5
							LTP-33B	5 - 7	
LTP-34	Test Pit	Sabre Park	1041210.982	1127733.101	573.883	7/2/2013	LTP-34A	0 - 2	9
							LTP-34B	5 - 7	
LTP-35	Test Pit	Sabre Park	1041401.4	1127715.179	574.651	7/2/2013	LTP-35A	0 - 2	9
							LTP-35B	7 - 9	
							FD-15	0 - 2	
LTP-36	Test Pit	Sabre Park	1041467.717	1127698.762	574.978	7/2/2013	LTP-36A	0 - 2	8
							LTP-36B	6 - 8	
LTP-37	Test Pit	Sabre Park	N/A[1]	N/A[1]	N/A[1]	7/2/2013	LTP-37A	2 - 4	10
							LTP-37B	8 - 10	
LTP-38	Test Pit	Sabre Park	1041696.255	1127818.196	574.667	7/2/2013	LTP-38A	2 - 4	10
							LTP-38B	5 - 7	
LTP-39	Test Pit	Sabre Park	1041798.111	1127815.048	574.189	7/2/2013	LTP-39A	0 - 2	10
							LTP-39B	5 - 7	
							MS/MSD-15	5 - 7	

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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LTP-40	Test Pit	Sabre Park	1041807.5	1127721.871	574.896	7/3/2013	LTP-40A	3 - 5	9
							LTP-40B	6 - 8	
LTP-41	Test Pit	Sabre Park	1042013.909	1127819.637	574.8	6/26/2013	LTP-41A	1 - 3	10
							LTP-41B	7 - 9	
LTP-42	Test Pit	Sabre Park	1042021.909	1127697.965	575.025	6/28/2013	LTP-42A	0 - 2	10
							LTP-42B	8 - 10	
							FD-6	0 - 2	
LTP-43	Test Pit	Sabre Park	1042196.647	1127817.897	575.002	6/26/2013	LTP-43A	1 - 3	10
							LTP-43B	8 - 10	
LTP-44	Test Pit	Sabre Park	1042216.654	1127703.38	575.089	6/29/2013	LTP-44A	0 - 2	10
							LTP-44B	8 - 10	
							FD-7	8 - 10	
LTP-46	Test Pit	Sabre Park	1041233.505	1127473.638	575.621	7/2/2013	LTP-46A	0 - 2	7.5
							LTP-46B	2 - 4	
LTP-47	Test Pit	Sabre Park	1041440.292	1127614.813	574.76	7/1/2013	LTP-47A	0 - 2	10
							LTP-47B	5 - 7	
LTP-48	Test Pit	Sabre Park	1041507.883	1127493.292	574.91	7/1/2013	LTP-48A	0.5 - 2.5	4.5
							LTP-48B	3 - 4.5	
							FD-11	0.5 - 2.5	
LTP-49	Test Pit	Sabre Park	1041596.066	1127479.342	575.031	7/1/2013	LTP-49A	0 - 2	3.5
							MS/MSD-13	0 - 2	
LTP-50	Test Pit	Sabre Park	1041688.501	1127527.993	574.976	6/30/2013	LTP-50A	1 - 3	4
LTP-51	Test Pit	Sabre Park	1041794.488	1127602.372	574.617	7/1/2013	LTP-51A	0 - 1	10
							LTP-51B	4 - 5	
							MS/MSD-14	0 - 1	
LTP-52	Test Pit	Sabre Park	1041883.245	1127601.642	573.913	6/28/2013	LTP-52A	0 - 2	10
							LTP-52B	4 - 5	
LTP-53	Test Pit	Sabre Park	1041996.011	1127590.923	574.977	6/28/2013	LTP-53A	0 - 2	10
							LTP-53B	8 - 10	
							MS/MSD-6	8 - 10	
LTP-54	Test Pit	Sabre Park	1042077.77	1127474.171	575.004	6/28/2013	LTP-54A	0 - 2	10
							LTP-54B	6 - 8	
							MS/MSD-8	0 - 2	

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Sample Location	Location Type	Site Location	Easting (ft)	Northing (ft)	Elevation (ft)	Sample Date	Sample ID	Sample Depth (ft)*	Temination Depth (ft)
LTP-55	Test Pit	Sabre Park	1042229.116	1127601.912	574.557	6/28/2013	LTP-55A	0 - 2	10
							LTP-55B	6 - 8	
							MS/MSD-7	6 - 8	
LTP-56	Test Pit	Sabre Park	1042320.406	1127596.349	574.649	6/29/2013	LTP-56A	5 - 7	10
							LTP-56B	8 - 10	
							FD-8	8 - 10	
LTP-57	Test Pit	Sabre Park	1041071.316	1127412.324	574.969	7/2/2013	LTP-57A	0 - 2	2.5
LTP-58	Test Pit	Sabre Park	1041018.106	1127257.934	575.18	6/24/2013	LTP-58A	4 - 6	10
							LTP-58B	6 - 8	
LTP-59	Test Pit	Sabre Park	1041171.797	1127419.634	575.381	7/1/2013	LTP-59A	3 - 5	8
							LTP-59B	6 - 8	
LTP-60	Test Pit	Sabre Park	1041293.433	1127419.608	575.259	7/1/2013	LTP-60A	0 - 2	8
							LTP-60B	3 - 5	
LTP-61	Test Pit	Sabre Park	1041436.612	1127414.4	575.172	6/30/2013	LTP-61A	0.5 - 2	10
							LTP-61B	4 - 6	
LTP-62	Test Pit	Sabre Park	1041367.978	1127276.164	574.839	6/24/2013	LTP-62A	2 - 4	10
LTP-63	Test Pit	Sabre Park	1041565.477	1127295.385	574.523	6/25/2013	LTP-63A	1 - 3	10
							LTP-63B	3 - 4	
							MS/MSD-1	1 - 3	
LTP-64	Test Pit	Sabre Park	1041721.337	1127301.495	574.029	6/25/2013	LTP-64A	5 - 7	10.5
							LTP-64B	3 - 5	
							FD-1	3 - 5	
LTP-65	Test Pit	Sabre Park	1041855.137	1127423.303	574.224	6/29/2013	LTP-65A	0 - 2	2
LTP-66	Test Pit	Sabre Park	N/A[1]	N/A[1]	N/A[1]	6/29/2013	LTP-66A	5 - 7	10
							LTP-66B	7 - 9	
							MS/MSD-10	5 - 7	
LTP-67	Test Pit	Sabre Park	1041997.489	1127390.381	574.614	7/1/2013	LTP-67A	0 - 2	10
							LTP-67B	5 - 7	
							FD-12	5 - 7	
LTP-68	Test Pit	Sabre Park	1042060.506	1127282.136	574.466	6/29/2013	LTP-68A	1 - 3	10
							LTP-68B	6 - 8	
							FD-9	1 - 3	
LTP-69	Test Pit	Sabre Park	1042196.783	1127392.434	575.06	6/29/2013	LTP-69A	4 - 5	10
							LTP-69B	5 - 7	
							MS/MSD-11	5 - 7	

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LTP-70	Test Pit	Sabre Park	1042325.755	1127342.995	575.048	6/29/2013	LTP-70A	0 - 2	10
							LTP-70B	8 - 10	
							MS/MSD-9	8 - 10	
LMW-1	Monitoring Well	Mall Parking Lot	1041873.209	1128778.705	572.799	7/2/2013	LMW-1	1 - 11	11
LMW-2	Monitoring Well	Mall Parking Lot	1042261.246	1128562.876	572.269	7/2/2013	LMW-2	3.5 - 8.5	8.5
							MS/MSD-GW-1	3.5 - 8.5	
LMW-3	Monitoring Well	Storage Facility	1041261.518	1128359.074	572.852	7/2/2013	LMW-3	2 - 12	12
LMW-4	Monitoring Well	Storage Facility	1041261.518	1128359.074	572.852	7/2/2013	LMW-4	3.5 - 8.5	8.5
LMW-5	Monitoring Well	Sabre Park	1042016.84	1128194.775	574.103	7/2/2013	LMW-5	2 - 12	12
LMW-6	Monitoring Well	Sabre Park	1041224.244	1127685.238	574.21	7/2/2013	LMW-6	4.5 - 9.5	9.5
LMW-7	Monitoring Well	Sabre Park	1042039.902	1127765.949	574.915	7/2/2013	LMW-7	2 - 7	7
LMW-8	Monitoring Well	Sabre Park	1041788.866	1127346.661	574.587	7/2/2013	LMW-8	3.5 - 8.5	8.5
						7/2/2013	FD-GW-1		
LSV-1	Soil Vapor Probe	Mall Parking Lot	1041938.038	1128732.679	572.365	N/A[2]	N/A[2]	2 - 2.5	2.5
LSV-2	Soil Vapor Probe	Mall Parking Lot	1042029.471	1128776.579	572.133	7/1/2013	LSV-2	2 - 2.5	2.5
LSV-3	Soil Vapor Probe	Mall Parking Lot	1041909.99	1128598.462	571.948	N/A[2]	N/A[2]	2 - 2.5	2.5
LSV-4	Soil Vapor Probe	Mall Parking Lot	1042059.063	1128591.4	571.632	N/A[2]	N/A[2]	2 - 2.5	2.5
LSV-5	Soil Vapor Probe	Mall Parking Lot	1042203.941	1128592.928	572.05	7/1/2013	LSV-5	2 - 2.5	2.5
LSV-6	Soil Vapor Probe	Sabre Park	1041894.208	1128387.333	572.844	N/A[2]	N/A[2]	2 - 2.5	2.5
LSV-7	Soil Vapor Probe	Sabre Park	1042056.677	1128407.695	573.883	N/A[2]	N/A[2]	2 - 2.5	2.5
LSV-8	Soil Vapor Probe	Sabre Park	1042273.851	1128366.427	574.621	N/A[2]	N/A[2]	2.5 - 3	3
LSV-9	Soil Vapor Probe	Sabre Park	1041941.626	1128191.8	574.273	7/1/2013	LSV-9	2 - 2.5	2.5
						7/1/2013	FD-1		
						7/2/2013	LSV-9		
						7/2/2013	FD-2		
LSV-10	Soil Vapor Probe	Sabre Park	1042088.146	1128195.362	574.219	N/A[2]	N/A[2]	2.5 - 3	3

Notes:

1. Monitoring Well and Soil Vapor Probe sample depth indicates screened interval
2. N/A[1] = Unable to locate point for survey
3. N/A[2] = Soil Gas sample location not sampled due to water in the soil vapor probe

Table 2
Soil Analytical Results
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Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units	LSB-1-A-20130627 6/27/2013 2-4' mg/kg	LSB-1-B-20130627 6/27/2013 5.5-7.5' mg/kg	LSB-2-A-20130627 6/27/2013 2-4' mg/kg	LSB-2-B-20130627 6/27/2013 10-12' mg/kg	LSB-3-A-20130627 6/27/2013 1-3' mg/kg	LSB-3-B-20130627 6/27/2013 6-8' mg/kg	LSB-4-A-20130627 6/27/2013 4-4.67' mg/kg	LSB-4-B-20130627 6/27/2013 4.67-6.6' mg/kg	LSB-5-A-20130627 6/27/2013 2-4' mg/kg	LSB-5-B-20130627 6/27/2013 10-12' mg/kg	LSB-6-A-20130626 6/26/2013 3-5' mg/kg	LSB-6-B-20130626 6/26/2013 10-12' mg/kg	LSB-7-A-20130626 6/26/2013 3-5' mg/kg	LSB-7-B-20130626 6/26/2013 8-10' mg/kg	LSB-8-A-20130627 6/27/2013 1.5-3.5' mg/kg	LSB-8-B-20130627 6/27/2013 6-8' mg/kg	LSB-9-A-20130627 6/27/2013 4-6' mg/kg	LSB-9-B-20130627 6/27/2013 8-10' mg/kg
	Unrestricted Use Objectives	Restricted Commercial	Sample Medium	Fill-Sand	Fill-Silty Sand	Fill-Sand	Clay	Fill-Sand	Fill-Clay	Sand	Sand	Fill-Sand	Clay	Sand	Clay	Fill-Clay	Clay	Fill-Sand	Sand/Silty Clay	Sand	Clay
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	0.0029 J	ND	ND	0.0053 J	ND	ND	ND	0.0061	ND	0.0054	ND	ND	ND	0.0025 J	ND	ND	ND
Acetone	0.05	500		ND	ND	ND	ND	0.031 J	0.0065 J	0.0038 J	0.0025 J	0.025	ND	0.027	ND	0.015 J	0.005 J	0.014	0.0026 J	0.0031 J	0.0059 J
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	0.0042	ND	0.0093	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	0.0027 J	ND	ND	ND	ND	ND	ND	ND	ND	0.038
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0031 J	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	0.0051 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.055
Vinyl Chloride	0.02	13		ND	0.0071	ND	ND	ND	ND	ND	ND	0.0021 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	0.159 J	ND	ND	ND J	ND	ND	ND	ND	0.274	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	0.129 J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	0.333	ND	0.111 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.239	ND	ND	ND
Benzo(a)anthracene	1	5.6		ND	0.134 J	0.657	ND	0.451	ND	0.152 J	ND	0.134 J	ND	ND	ND	0.0649 J	ND	0.225	ND	ND	ND
Benzo(a)pyrene	1	1		ND	ND J	0.621	ND	0.462	ND	0.105 J	ND	ND J	ND	ND	ND	0.0637 J	ND	0.22	ND	ND	ND
Benzo(b)fluoranthene	1	5.6		ND	ND J	0.506	ND	0.388	ND	0.0983 J	ND	ND J	ND	**1.47 J**	ND	0.0718 J	ND	0.153 J	ND	ND	ND
Benzo(g,h,i)perylene	100	500		ND	ND J	0.253	ND	ND	ND	ND	ND	ND J	ND	0.463	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	ND J	0.574	ND	0.59	ND	0.116 J	ND	ND J	ND	ND	ND	0.0613 J	ND	0.211	ND	ND	ND
Chrysene	1	56		ND	0.214 J	0.59	ND	0.414	ND	0.152 J	ND	0.123 J	ND	ND	ND	0.0597 J	ND	0.222	ND	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND J	0.104 J	ND	ND	ND	ND	ND	ND J	ND	0.242	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	7	350		ND	ND J	0.079 J	ND	ND	ND J	ND	ND	ND	ND	0.15 J	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	0.298 J	1.54	ND	0.589	ND	0.658	ND	0.138 J	ND	ND	ND	0.135 J	ND	0.469	ND	ND	ND
Fluorene	30	500		ND	ND	0.158 J	ND	ND	ND J	ND	ND	ND	ND	0.284	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND J	0.286	ND	0.162 J	ND	ND	ND	ND J	ND	0.423	ND	ND	ND	0.089 J	ND	ND	ND
Naphthalene	12	500		ND	ND	0.106 J	ND	ND	ND	ND	ND	ND	ND	0.0982 J	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	0.112 J	1.12	ND	0.325 J	ND	0.505	ND	0.11 J	ND	ND	ND	0.0835 J	ND	0.241	ND	ND	ND
Pyrene	100	500		ND	0.321 J	1.33	ND	0.489	ND	0.46	ND	0.179 J	ND	ND	ND	0.14 J	ND	0.44	ND	ND	ND
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		0.429	0.461	ND	ND	0.652	ND	ND	ND	0.223	ND	0.0502	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	0.418	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		**0.429**	**0.461**	ND	ND	**0.652**	ND	ND	ND	**0.641**	ND	0.0502	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.00661**	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	0.0198	ND	ND	ND	**0.113**	ND	0.00741	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	0.0359	ND	ND	ND	**0.139**	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	0.013	ND	ND	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	0.0116	ND	ND	ND	**0.113**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		3.38	3.11	**21.8**	5.25	4.97	3.77	12	2.46	5.38	4.36	6.94	2.26	5.6	2.03	2.78	3.66	3.25	5.91
Barium	350	400		74.9	63.3	63	44.6	64.1	119	62.8	39.9	119	69	92.6	86.5	80.8	63.4	97.1	128	29.3	156
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	**5.46**	ND	ND	**5.22**	ND	ND	ND	ND	ND	2.25	ND	ND	0.338	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		20.7	19.8	25.5	18	**38.9**	25	15.6	8.29	**127**	17.3	28.6	10.7	16.9	7.85	**63.7**	22.6	8.97	25.4
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		20.7	19.8	25.5	18	38.9	25	15.6	8.29	127	17.3	28.6	10.7	16.9	7.85	63.7	22.6	8.97	25.4
Copper	50	270		16.5 J	**55.5 J**	18 J	23.4 J	**83.1 J**	19.5	12	11.4	41.2	16.1	38.8	11.1	20.9	8.44	42.6	21.3	14.3	22.8
Lead	63	1,000		**160**	**279**	22.4	8.19	**124**	8.3	28.3	4.73	61.4	7.17	55.8	4.33	7.53	23.2	34.2	8.51	4.75	11.4
Manganese	1,600	10,000		331	294	274	512	280	529	341	258	532	369	450	537	386	538	257	566	279	812
Mercury	0.18	2.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.463**	0.00517	0.0183	0.00584	ND	ND	ND	ND
Nickel	30	310		9.73	25.9	22.7	29.3	**31.6**	**40.5**	16.9	15.6	**35.8**	24.2	22.9	16.7	26.9	11.3	**41.5**	**35.9**	16.3	**44.6**
Selenium	3.9	1,500		ND	ND	ND	ND	3.6	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	109	10,000		**197**	**203**	60.8	51.1	**119**	65.2	44.3	73.4	**192**	61.5	**817**	34.7	**122**	**187**	**175 J**	57.7 J	57.5 J	63.7 J
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	1.14	ND	0.704	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	LSB-10-A-20130627 6/27/2013 1.5-4' mg/kg Fill-Sand	LSB-10-B-20130627 6/27/2013 4-6' mg/kg Fill-Sand/Clay	LSB-11-A-20130624 6/24/2013 1-3' mg/kg Fill-Sand	LSB-11-B-20130624 6/24/2013 4-6' mg/kg Sand	LSB-12-A-20130626 6/26/2013 2-4' mg/kg Fill-Sand	LSB-12-B-20130626 6/26/2013 6-8' mg/kg Clay	LSB-13-A-20130626 6/26/2013 3-4' mg/kg Fill-Silty Sand	LSB-14-A-20130627 6/27/2013 1-3' mg/kg Fill-Sand/Silty Clay	LSB-14-B-20130627 6/27/2013 4-5.5' mg/kg Fill-Silty Clay	LSB-15-A-20130627 6/27/2013 1-3' mg/kg Fill-Sand	LSB-15-B-20130627 6/27/2013 5-7' mg/kg Fill-Silty Sand	LSB-16-A-20130627 6/27/2013 2.5-4.5' mg/kg Fill-Silty Sand	LSB-16-B-20130627 6/27/2013 6-8' mg/kg Fill-Silty Sand	LSB-17-A-20130627 6/27/2013 2-4' mg/kg Fill-Silty Sand	LSB-17-B-20130627 6/27/2013 10-12' mg/kg Fill-Sand	LSB-18-A-20130626 6/26/2013 1-3' mg/kg Fill-Silty Sand	LSB-18-B-20130626 6/26/2013 9.5-11.5' mg/kg Clay	LSB-19-A-20130624 6/24/2013 1-3' mg/kg Fill-Silt
	Unrestricted Use Objectives	Restricted Commercial																				
VOCs																						
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	ND	0.009	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		0.0038 J	ND	0.0025 J	0.0027 J	0.015 J	ND	0.0044 J	ND	ND	0.022 J	ND	0.0064 J	0.0039 J	0.012	ND	0.0031 J	ND	0.0036 J
Acetone	0.05	500		0.018	0.012	ND	ND	0.045 J	0.0044 J	0.023 J	0.0097 J	0.0056 J	**0.069 J**	ND	ND	0.019 J	0.044	0.006 J	0.015 J	0.0049 J	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003 J	0.0053	0.011	0.0068	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025 J	0.0038 J	0.0046	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 J	0.0032 J	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	0.0034 J	ND	ND	ND	ND	ND	ND	0.022	ND	0.0031 J	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND J	ND	0.0074 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	0.0038 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	0.0027 J	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041 J	0.0044 J	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.041	ND	ND	ND	ND
SVOCs																						
Acenaphthene	20	500		0.218 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		0.312 J	ND	ND	ND	0.084 J	ND	ND	ND	ND	ND	ND	ND	0.111 J	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	5.6		0.768	ND	ND	ND	0.335	ND	ND	ND	ND	ND	ND	ND	0.391 J	**1.27 J**	ND	ND	ND	ND	ND
Benzo(a)pyrene	1	1		0.573 J	ND	ND	ND	0.284 J	ND	ND	ND	ND	ND	ND	ND	0.377 J	0.891 J	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1	5.6		0.792 J	ND	ND	ND	0.486 J	ND	ND	ND	ND	ND	ND	ND	0.323 J	0.81 J	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	100	500		ND J	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		**0.828 J**	ND	ND	ND	0.574	ND	ND	ND	ND	ND	ND	ND	0.39 J	**1.09 J**	ND	ND	ND	ND	ND
Chrysene	1	56		0.707	ND	ND	0.056 J	0.516	ND	ND	ND	ND	ND	ND	ND	0.355 J	0.78 J	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND J	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND
Dibenzofuran	7	350		0.118 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		1.19	ND	ND	0.114 J	0.607	ND	0.0588 J	ND	ND	ND	ND	2.07 J	0.651	2.13	ND	ND	ND	ND	ND
Fluorene	30	500		0.15 J	ND	ND	ND	0.0579 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.146 J	ND J	ND	ND	ND	ND	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.605 J	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		0.868	ND	ND	ND	0.378	ND	ND	ND	ND	ND	ND	1.59 J	0.468	1.72 J	ND	ND	ND	ND	ND
Pyrene	100	500		1.13	ND	ND	0.122 J	0.806 J	ND	0.0543 J	ND	ND	ND	ND	2.43 J	0.549	2.32 J	ND	ND	ND	ND	ND
PCBs																						
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0555	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		0.0805	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		0.0805	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0555	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																						
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		0.00475	ND	ND	ND	ND	ND	ND	**1.55**	ND	ND	ND	ND	0.0173	0.0123	ND	ND	ND	ND	ND
beta-BHC	0.036	3		0.00571	ND	ND	ND	ND	ND	ND	**0.739**	ND	ND	ND	ND	**0.0864**	0.0112	**0.048**	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																						
Arsenic	13	16		5.34	6.75	2.51	3.34	5.56	3.57	2.79	ND	3.66	3.15	5.66	6.71	4.25	5.25	2.76	4.18	2.42	5.76
Barium	350	400		314	56.7	39.6	32.7	81.3	119	29.5	28.2	39	33.3	37.5	160	124	73.2	66.5	41.1	108	68.2
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		1.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		**145**	12	10.6	12.9	29.7	25.6	11.3	**873**	10.4	15.5	11.5	**108**	**125**	**95.1**	**308**	11.2	17.7	16.6
Chromium, Hexavalent	1	400		ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND
Chromium, Total	NE	NE		145	12	10.6	12.9	29.7	25.6	11.3	873	10.4	15.5	11.5	108	125	95.1	308	11.2	17.7	16.6
Copper	50	270		**138**	32.6	10.8	18.1	**66**	20.7	12.2	5.5	23.8	10.1 J	25.4 J	27.5 J	44 J	32.9	22.4	12.8	22.1	17
Lead	63	1,000		**11,900**	9.89	5.57	8.62	37.8	8.6	6.97	20.3	7.18	8.15	9.33	**1,260**	**101**	47.5	35.1	5.86	7.01	10.7
Manganese	1,600	10,000		308	387	340	354	490	493	192	**2,420**	422	231	365	393	532	473	586	306	585	168
Mercury	0.18	2.8		0.169	ND	0.0165 J	0.0376 J	0.0728	0.012	0.0379	ND	ND	ND	ND	**0.256**	ND	ND	ND	0.0175	0.0104	0.143 J
Nickel	30	310		**35.1**	23.2	14.3	16.2	**37.8**	**35.8**	15.8	**54.7**	22.7	17.3	24.2	24.7	29.1	**31.7**	**33.8**	17.7	25.7	22.6
Selenium	3.9	1,500		ND	ND	1.28	ND	ND	ND	ND	ND	ND	ND	ND	1.55	ND	1.43	ND	ND	ND	1.42
Zinc	109	10,000		**233**	95.7	53.2	52.4	**143**	60.9	43.3	86.6 J	56 J	43.2	75.8	**291**	**359**	**152**	103	52.3	56.6	91.8
Cyanide	27	27		ND	ND	1.76	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-19-B-20130624	LSB-20-A-20130624	LSB-20-B-20130624	LSB-21-A-20130626	LSB-21-B-20130626	LSB-22-A-20130626	LSB-22-B-20130626	LSB-23-A-20130626	LSB-23-B-20130626	LSB-23-S-20130702	LSB-24-A-20130626	LSB-24-B-20130626	LSB-25-A-20130626	LSB-25-B-20130626	LSB-26-A-20130625	LSB-26-B-20130625	LSB-27-A-20130625	LSB-27-B-20130625
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/24/2013	6/24/2013	6/24/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	7/2/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
			Sampling Depth	4-6'	2-4'	6-8'	2-4'	4-6'	2-4'	5-7'	2-4'	6-8'	3-4'	3-5'	5-7'	3-5'	10-12'	4-6'	10-12'	2-4'	14-16'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Clay	Fill-Sand	Sand	Fill-Sand	Fill-Silty Sand	Fill-Sand	Silty-Sand	Fill-Sand	Sand	Fill-Sand	Fill-Clay	Sand	Fill-Sand	Silty Clay	Fill-Sand	Clay	Fill-Sand	Clay
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	0.011	ND	0.011	ND	0.0045	ND
Acetone	0.05	500		ND	0.043 J	ND	ND	0.021	ND	ND	ND	ND	ND	0.031	ND	0.032	ND	0.035	ND	0.021	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	0.341	ND	ND	0.122 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	0.199	8.99 J	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	0.0576 J	ND
Benzo(a)anthracene	1	5.6		ND	0.139 J	ND	**8.56 J**	**1.14**	**17.7**	ND	0.993	ND	0.0946 J	0.165 J	ND	ND	ND	0.105 J	ND	0.414	ND
Benzo(a)pyrene	1	1		ND	0.149 J	ND	**7.85 J**	0.878	**18.9**	ND	**1.03**	ND	0.117 J	0.213 J	ND	ND	ND	0.114 J	ND	0.435	ND
Benzo(b)fluoranthene	1	5.6		ND	0.149 J	ND	**9.82**	**1.43**	**11.2**	ND	0.171 J	ND	0.174 J	0.21 J	ND	ND	ND	0.115 J	ND	0.472	ND
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND	0.167 J	6.74 J	ND	0.265	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	0.157 J	ND	**6.96 J**	**1.24**	**13.5**	ND	**1.33**	ND	0.149 J	0.198 J	ND	ND	ND	0.148 J	ND	0.491	ND
Chrysene	1	56		ND	0.153 J	ND	**18.5**	0.979 J	**21.6**	ND	**1.25**	ND	0.118 J	0.18 J	ND	ND	ND	0.102 J	ND	0.35	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND	0.0929 J	**2.91 J**	ND	0.129 J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND	0.224	ND	ND	0.0706 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	0.267	ND	22.8	1.18 J	52	ND	1.42	ND	0.153 J	0.295	ND	ND	ND	0.106 J	ND	0.688	ND
Fluorene	30	500		ND	ND	ND	ND	0.223	ND	ND	0.125 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND	ND	**2.66 J**	0.203	**6.13 J**	ND	0.254	ND	ND J	0.0816 J	ND	ND	ND	ND	ND	0.0902 J	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND J	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	0.162 J	ND	9.5	1.45	33.5	ND	0.984	ND	0.106 J	0.203 J	ND	ND	ND	0.117 J	ND	0.27	ND
Pyrene	100	500		ND	0.257	ND	26	1.47 J	57.7	ND	0.185 J	ND	0.204 J	0.257 J	ND	ND	ND	0.126 J	ND	0.774 J	ND
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	0.996	0.0602	2.52	ND	ND	ND	ND	ND	ND	ND	ND	1.71	ND	0.149	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	0.503	ND	0.18	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	**0.996**	0.0602	**2.52**	ND	**0.503**	ND	**0.18**	ND	ND	ND	ND	**1.71**	ND	**0.149**	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	0.0176	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	**0.0394**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	0.0734	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		1.34	4.26	2.52	7.62	2.77	ND	2.6	ND	4.43	ND	3.7	2.92	2.75	1.99	6.38	4.27	ND	1.76
Barium	350	400		22.2	70.4	51.6	81.1	62.5	241	45	54.2	32.5	58	82.6	31.8	47.1	49.7	91.9	146	62.5	49.4
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	0.554	ND	ND	0.575	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		7.83	**30.4**	6.42	**94.1**	**139**	**1,940**	8.67	**1,680**	11.4	**5,930**	**80.9**	8.99	13.1	9.81	**224**	26.9	**698**	11.8
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	**44.4**	ND	**8.88**	ND	**506**	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		7.83	30.4	6.42	94.1	139	1,980	8.67	1,690	11.4	6,440	80.9	8.99	13.1	9.81	224	26.9	698	11.8
Copper	50	270		9.14	16.9	12.2	**146**	**56.4**	26.6	15.8	12.5	21.8	14	15.6	12.8	23.2	9.18	**94.1**	21.6	20.6	7.44
Lead	63	1,000		3.15	20	20	43.8	18.5	54.8	6.35	17.1	7.09	15.8	29.9	4.45	16.4	3.9	**75**	9.38	21.9	19.1
Manganese	1,600	10,000		166	202	593	394	318	396	235	919	297	946	194	319	242	290	810	577	366	493
Mercury	0.18	2.8		0.0225 J	**0.315 J**	0.00955 J	**0.43 J**	0.0537 J	**0.239 J**	0.0156 J	0.0673 J	0.0143 J	ND	0.102 J	0.015 J	0.0481	0.01	**0.799 J**	0.0117 J	**0.583**	0.00619
Nickel	30	310		11.3	26.9	9.74	**92.5**	**39.9**	**137**	15.8	**137**	18.7	**289**	28.6	15.7	20.5	16.7	**57.8**	**37.8**	**59**	11.1
Selenium	3.9	1,500		ND	1.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	109	10,000		38.3	72.6	**216**	**137**	90.1	**128**	42.2	33.4	53.4	ND	82.5	45.2	89.2	42.7	**138**	59.1	73.2 J	**160 J**
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.716	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-28-A-20130625	LSB-28-B-20130625	LSB-29-A-20130626	LSB-29-B-20130626	LSB-30-A-20130626	LSB-31-A-20130627	LSB-31-B-20130627	LSB-32-A-20130626	LSB-32-B-20130626	LSB-33-A-20130627	LSB-33-B-20130627	LSB-34-A-20130626	LSB-34-B-20130626	LSB-35-A-20130625	LSB-35-B-20130625	LSB-36-A-20130626	LSB-36-B-20130626	LSB-37-A-20130628
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/26/2013	6/26/2013	6/27/2013	6/27/2013	6/26/2013	6/26/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/28/2013
			Sampling Depth	1-3'	4-5.5'	2-4'	10-12'	4-6'	0-2'	2-4'	3-5'	6-8'	0-2'	4-6'	3-4.5'	6-8'	2-4'	4-5.5'	1-3'	10-12'	5-7'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Fill-Sand	Clay	Fill-Sand	Clay	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Clay	Fill-Sand	Clay	Fill-Clay	Sand/Clay	Fill-Sand	Clay	Fill-Sand	Clay	Sand
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	0.013 J	ND	0.0089	ND	0.026	ND	ND	ND	0.022	ND	ND	ND	ND	ND	ND	ND
Acetone	0.05	500		ND	ND	0.039 J	0.0026 J	0.026	0.0039 J	**0.072**	ND	ND	ND	**0.065**	ND	ND	ND	ND	0.0073 J	0.0023 J	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	0.198 J	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	ND	0.136 J	ND	0.0886 J	ND	0.0486 J	ND	ND	ND	0.562	ND	ND	ND	ND
Benzo(a)anthracene	1	5.6		ND	ND	0.0941 J	ND	ND	0.847	0.244 J	0.396	ND	0.175 J	0.167 J	ND	ND	0.796	ND	0.0856 J	ND	ND
Benzo(a)pyrene	1	1		ND	ND	0.117 J	ND	ND	0.825	0.301	0.361	ND	0.181 J	0.189 J	ND	ND	0.571	ND	0.1 J	ND	ND
Benzo(b)fluoranthene	1	5.6		ND	ND	0.116 J	ND	0.076 J	0.771	0.222 J	0.61	ND	0.16 J	0.153 J	ND	ND	0.572	ND	0.0991 J	ND	ND
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND	ND	ND	0.186 J	0.149 J	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	ND	0.105 J	ND	ND	**1.02**	0.278 J	0.51	ND	0.163 J	0.162 J	ND	ND	0.514	ND	0.0912 J	ND	ND J
Chrysene	1	56		ND	ND	0.0965 J	ND	0.0524 J	0.651	0.236 J	0.539	ND	0.179 J	0.168 J	ND	ND	0.705	ND	0.154 J	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND	ND	ND	0.0938 J	0.0874 J	ND	ND	ND	ND	ND	0.173 J	ND	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	0.347	ND	ND	ND	ND
Fluoranthene	100	500		ND	ND	0.121 J	ND	0.0666 J	1.09	0.408	0.623	ND	0.341	0.379	ND	ND	1.7	ND	0.237	ND	ND
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	0.166 J	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND	0.0738 J	ND	ND	0.281 J	0.193 J	0.151 J	ND	0.0821 J	0.0931 J	ND	ND	0.336	ND	ND	ND	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.135 J	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND J	ND J	ND J	ND	ND J	ND J	ND
Phenanthrene	100	500		ND	ND	0.108 J	ND	0.0528 J	0.432	0.293 J	0.403	ND	0.201	0.222 J	ND	ND	3.52	ND	0.151 J	ND	ND
Pyrene	100	500		ND	ND	0.125 J	ND	0.0853 J	0.977	0.317	0.79 J	ND	0.408	0.346	ND	ND	1.31	ND	0.233	ND	ND
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	0.441	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND	ND	**0.441**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	0.0477	ND	ND	ND	ND	ND J	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		2.76	2.43	3.66	6.43	2.84	ND	4.01	ND	1.97	2.78	4.12	ND	2.13	ND	5.38	ND	5.8	3.28
Barium	350	400		34.4	48.8	50.2	119	34.3	67.3	81.6	116	47.8	68.5	80.9	58.2	44.7	192	35.1	83.3	109	48.7
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		15.9	12.7	23.4	24.4	**38.5**	**2,010**	**129**	**2,860**	12.1	**141**	**41.1**	**1,500**	12.3	**4,730**	14.6	**4,320**	**65.5**	9.53
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	**22.6 J**	ND J	**3.04**	ND	ND J	ND	**47.8**	ND	**87.3**	ND	**150**	ND	ND
Chromium, Total	NE	NE		15.9	12.7	23.4	24.4	38.5	2,030	129	2,860	12.1	141	41.1	1,550	12.3	4,820	14.6	4,470	65.5	9.53
Copper	50	270		8.5	20.3	12.8	24.6	11	21.5	24.9	30.2	11.6	14.5	14.8	13.6	10.1	32.3	25.2	20.6	25.8	13.3
Lead	63	1,000		7.74	6.49	13.1	9.46	18.1	16	42.7	46	5.62	37.9	23.6	10.7	5.98	19.9	6.17	32.8	10.8	5.28
Manganese	1,600	10,000		170	145	249	597	379	993	270	**2,760**	312	348	170	300	394	**6,970**	727	988	358	786
Mercury	0.18	2.8		0.0399	0.0314	0.105	0.0142	0.056 J	ND	ND	**0.423 J**	0.0139 J	ND	ND	**0.258 J**	0.0158 J	**0.196 J**	0.019 J	**3.86**	0.02	ND
Nickel	30	310		16.3	20.8	23.7	**44.5**	17.7	**249**	**41.8**	**150**	17.2	22.9	23.3	**114**	20.5	**254**	19.7	**252**	**40**	19.4
Selenium	3.9	1,500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.77	ND	ND	3.36	ND	ND	ND	ND
Zinc	109	10,000		45.2 J	66.2 J	56.8	62.7	57.8	34	86.1	92.1	49	87.4	64.4 J	46.8	49.9	40	48.4	22.3	64	40.6
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-37-B-20130628	LSB-38-A-20130628	LSB-38-B-20130628	LSB-39-A-20130703	LSB-39-B-20130703	LSB-40-A-20130626	LSB-40-B-20130626	LSB-41-A-20130626	LSB-41-B-20130626	LSB-42-A-20130626	LSB-42-B-20130626	LSB-43-A-20130625	LSB-43-B-20130625	LSB-44-A-20130703	LSB-44-B-20130703	LSB-45-A-20130702	LSB-45-B-20130702	LSB-46-A-20130626
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/28/2013	6/28/2013	6/28/2013	7/3/2013	7/3/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/25/2013	6/25/2013	7/3/2013	7/3/2013	7/2/2013	7/2/2013	6/26/2013
			Sampling Depth	8-10'	0-2'	2-4'	3-5'	6-8'	4-6'	6-8'	3-5'	10-12'	3-5'	10-12'	2-4'	6-8'	1-3'	5-7'	1.1-3.3'	3.3-4.3'	2-4'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Clay	Fill-Sand	Fill-Sand	Fill-Clay	Sand/Clay	Fill-Sand	Fill-Sand	Fill-Sand	Sand	Fill-Sand	Clay	Fill-Sand	Clay	Fill-Sand	Silty Clay	Fill-Sand	Clay	Fill-Sand
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	ND	ND	0.0037 J	ND	ND	0.0048 J	ND	ND	ND	ND	ND	ND	ND	0.0029 J	ND	0.035	0.0074 J
Acetone	0.05	500		ND	ND	ND	ND	0.018 J	ND	0.0058 J	0.021 J	0.0025 J	ND	ND	ND	ND	ND	ND	0.021 J	ND	**0.11**	0.025 J
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.232
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	0.223 J	ND	ND	ND	ND	0.0958 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.512
Benzo(a)anthracene	1	5.6		ND	0.121 J	**1.73**	0.142 J	ND	0.171 J	ND	0.251 J	ND	ND	ND	ND	ND	ND	0.137 J	ND	0.0953 J	0.168 J	**1.9**
Benzo(a)pyrene	1	1		ND	0.133 J	0.73	0.208 J	ND	0.166 J	ND	0.25 J	ND	ND	ND	ND	ND	ND	0.137 J	ND	0.124 J	0.281	**1.93**
Benzo(b)fluoranthene	1	5.6		ND	0.13 J	**1.58**	0.146 J	ND	0.128 J	ND	0.2 J	ND	ND	ND	ND	ND	ND	0.116 J	ND	0.123 J	0.214 J	**2.15**
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.699
Benzo(k)fluoranthene	0.8	56		ND J	0.117 J	**1.44 J**	0.146 J	ND	0.149 J	ND	0.218 J	ND	ND	ND	ND	ND	ND	0.147 J	ND	0.138 J	0.256	**1.86**
Chrysene	1	56		ND	0.148 J	**2.62**	0.154 J	ND	0.258 J	ND	0.33 J	ND	ND	ND	ND	ND	ND	0.129 J	ND	0.0976 J	0.193 J	**2.47**
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.442**
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	0.162 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.129 J
Fluoranthene	100	500		ND	0.263	1.98	0.222	ND	0.533 J	ND	0.648 J	ND	ND	ND	0.0841 J	ND	0.289	ND	0.162 J	0.298	2.8
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.253
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	0.0747 J	ND	0.06 J	ND	0.0749 J	ND	0.0702 J	ND	ND	ND	ND	ND	0.0929 J	ND	ND	0.0606 J	**0.783**
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0795 J
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND
Phenanthrene	100	500		ND	0.133 J	0.71	0.14 J	ND	0.345 J	0.442 J	0.358 J	ND	ND	ND	0.0576 J	ND	0.152 J	ND	0.0695 J	0.223 J	1.88
Pyrene	100	500		ND	0.233	1.64	0.327 J	ND	0.487 J	ND	0.604 J	ND	ND	ND	0.0588 J	ND	0.215	ND	0.183 J	0.322	3.31 J
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	0.0513	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	0.0513	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00412
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		5.71	ND	7.48	5.24	2.53	ND	2.15	8.02	3.21	3.72	3.52	ND	4.56	7.99	4.5	6.14	5.96	5.72
Barium	350	400		121	89.5	121	72.4	38.2	58.3	40	54.8	175	73.3	132	46.6	71.2	106	69.7	240	90.8	86.2
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.276	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.449	ND	ND
Chromium, Trivalent	30	1,500		21.6	**895**	**73.4**	23	11.2	**4,980**	14.6	**77.7**	27.8	**43**	28	**2,370**	20.8	**103**	16	15.2	**37.6**	**158**
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	**55.1**	ND	ND	ND	ND	ND	**11.1**	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		21.6	895	73.4	23	11.2	5,040	14.6	77.7	27.8	43	28	2,381	20.8	103	16	15.2	37.6	158
Copper	50	270		24.8	35.3	26.1	18.4	10	26.2	12.6	33.4	21.3	12.8	26.4	12.3	19.3	32.6	18	27.3	18.7	29.6
Lead	63	1,000		10.9	53.9	**117**	41.1	6	12.2	4.75	**78.1**	8.19	10.5	6.74	14.3	6.49	**63.7**	8.01	**341**	23.5	50.8
Manganese	1,600	10,000		391	533	563	534 J	176 J	1,230	437	348	653	214	562	711	442	580 J	134 J	573	260	690
Mercury	0.18	2.8		ND	ND	ND	0.161	ND	**0.759 J**	0.0174 J	**0.279**	0.0128	0.165	0.0196	0.021	0.0131 J	ND	ND	ND	ND	**0.185**
Nickel	30	310		**35.4**	**424**	**39.1**	20.6	14.5	**739**	18.2	21.5	**43.2**	24.7	**43.8**	**154**	24.4	28.3	23.6	18.3	**32.6**	**49.9**
Selenium	3.9	1,500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND
Zinc	109	10,000		60.4	96.2	90.4	80.1 J	42.6 J	8.65	42.4	**161**	60.9	67.4	64.6	16.9	45.6 J	107 J	66.6 J	**339**	105	**110**
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-46-B-20130626	LSB-47-A-20130625	LSB-47-B-20130625	LSB-48-A-20130628	LSB-48-B-20130628	LSB-49-A-20130702	LSB-49-B-20130702	LSB-50-A-20130701	LSB-50-B-20130701	LSB-51-A-20130701	LSB-51-B-20130701	LSB-52-A-20130701	LSB-52-B-20130701	LSB-53-A-20130629	LSB-54-A-20130628	LSB-54-B-20130628	LSB-55-A-20130629	LSB-55-B-20130629
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/26/2013	6/25/2013	6/25/2013	6/28/2013	6/28/2013	7/2/2013	7/2/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/29/2013	6/28/2013	6/28/2013	6/29/2013	6/29/2013
			Sampling Depth	4-6'	2-4'	10-12'	4-6'	6-7.5'	1.5-3.5'	4-6'	2-4'	5-7'	0.5-1.5'	1.5-3'	0-2'	2-4'	0.5-1'	0-2'	2-4'	0-2'	2-4'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Sand	Fill-Sand	Clay	Fill-Clay/Sand	Sand	Fill-Silty Sand	Fill-Silty Sand	Fill-Sand	Clay	Fill-Sand	Fill-Sand	Fill-Sand	Clay	Fill-Gravel	Fill-Sand	Fill-Clay	Fill-Sand	Fill-Sand
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	ND	ND	ND	ND	0.01	ND	0.0085	ND	ND	ND	ND	ND	ND	0.0087	ND	ND
Acetone	0.05	500		0.012 J	ND	ND	ND	ND	ND	0.034	0.0096 J	0.028	ND	ND	ND	0.018	0.012 J	ND	0.03	ND	0.015 J
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0928 J	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	0.0754 J	ND	ND	ND	ND	ND	ND	ND	0.873	0.265	0.405	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	5.6		ND	**1.38**	ND	ND	ND	0.0682 J	0.0627 J	0.113 J	ND	0.561 J	0.24 J	0.303 J	ND J	0.171 J	ND	ND	0.213	0.127 J
Benzo(a)pyrene	1	1		ND	0.752	ND	ND	ND	0.0799 J	0.09 J	0.16 J	ND	0.665 J	0.325 J	0.394 J	ND J	0.0857 J	ND	ND	0.168 J	0.0651 J
Benzo(b)fluoranthene	1	5.6		ND	**2.1**	ND	ND	ND	ND	ND	0.126 J	ND	0.675 J	0.409 J	0.417 J	ND J	0.0943 J	ND	ND	0.0908 J	ND
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND	ND	ND	ND	0.126 J	ND	0.287 J	0.134 J	0.267 J	ND J	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	**1.36**	ND	ND	ND	0.0682 J	0.0716 J	0.106 J	ND	0.714 J	0.334 J	0.395 J	ND J	0.1 J	ND	ND	0.166 J	0.0707 J
Chrysene	1	56		ND	**3.1**	ND	ND	ND	0.0739 J	0.0725 J	0.136 J	ND	0.591 J	0.251 J	0.347 J	ND J	0.174 J	ND	ND	0.193 J	0.125 J
Dibenz(a,h)anthracene	0.33	0.56		ND	0.0622 J	ND	ND	ND	ND	ND	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND	ND	ND J	ND J
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0493 J	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	1.74	ND	ND	ND	0.129 J	0.131 J	0.21 J	ND	0.885	0.348	0.516	ND	0.287	0.0638 J	ND	0.381	0.243 J
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0916 J	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.79**	ND	0.0824 J	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	0.115 J	ND	ND	ND	ND	ND	0.111 J	ND	0.313 J	0.103 J	0.149 J	ND J	ND J	ND	ND	0.0741 J	ND J
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND J	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	0.334	ND	ND	ND	0.106 J	0.0857 J	0.167 J	ND	0.904	0.275	0.419	ND	0.0857 J	ND	ND	0.166 J	0.137 J
Pyrene	100	500		ND	2.76	ND	ND	ND	0.182 J	0.122 J	ND J	ND	3.1 J	1.25 J	2.1 J	ND J	0.26	0.0634 J	ND	0.328	0.209 J
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.122	ND	0.0443	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	0.0855	ND	ND	ND	ND	ND	ND	ND	0.151	ND	ND	ND	ND	ND	ND	ND	0.128
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	0.0855	ND	ND	ND	ND	ND	ND	ND	**0.151**	ND	**0.122**	ND	0.0443	ND	ND	ND	**0.128**
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND J
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00586	ND	0.0114	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		3.21	ND	4.1	4.06	1.29	5.94	2.65	8.14	2.17	4.47	8.46	8.51	3.93	ND	5.52	4.32	2.72	ND
Barium	350	400		74.9	66	162	42.4	40.4	64.9	58.9	62.2	39.3	138	99.4	123	64.1	54.9	112	82.8	52.9	74.2
Beryllium	7.2	590		0.25	ND	ND	ND	ND	ND	ND	0.157	ND	ND	ND	ND	ND	ND	ND	0.129	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.704	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		16.8	**4,360**	**31.8**	11.2	8.85	19.3	17.1	**36.4**	9.97	**74.1**	**70.2**	**56.8**	16.8	**2,090**	25.3	**168**	**324**	**3,460**
Chromium, Hexavalent	1	400		ND	**28.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**275**
Chromium, Total	NE	NE		16.8	4,390	31.8	11.2	8.85	19.3	17.1	36.4 J	9.97 J	74.1 J	70.2 J	56.8 J	16.8 J	2,090	25.3	168	324	3,730
Copper	50	270		11.6	16.1	24.2	21.4	5.97	27.7	4.81	16	8.88	38	**98**	39.9	20.6	16	20.5	18	16.5	9.96
Lead	63	1,000		9.66	42.5	6.91	7.36	3.98	**83.9**	12	15.5	4.69	49.9	**201**	**223**	10.8	33.4	9.22	39.1	30.6	29.6
Manganese	1,600	10,000		131	783	552	681	316	580	100	205	237	712	789	425	163	536	766	495	330	1,450
Mercury	0.18	2.8		0.0269	**0.314**	0.0135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	30	310		26.3	**242**	**40.3**	22.9	14.8	20.6	12	22.9	16.9	26.7	23.6	27.4	23.1	**221**	**33.1**	**41**	**37.3**	**194**
Selenium	3.9	1,500		ND	ND	ND	ND	ND	ND	ND	3.49	ND	1.57	2.06	1.98	1.9	ND	ND	ND	1.58	ND
Zinc	109	10,000		74.3	23.4 J	66.2 J	46.4	37.6	**168**	49.5	70.3	43.9	**116**	**362**	101	66.9	62.7	59.4	**119**	**111**	57.4
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	LSB-56-A-20130703 7/3/2013 0-2' mg/kg Fill-Sand	LSB-56-B-20130703 7/3/2013 3-5' mg/kg Fill-Silt	LSB-57-A-20130702 7/2/2013 2-4' mg/kg Fill-Sand	LSB-57-B-20130702 7/2/2013 5-7' mg/kg Fill-Silty Sand	LSB-58-A-20130703 7/3/2013 0-2' mg/kg Fill	LSB-58-B-20130703 7/3/2013 2-4' mg/kg Fill	LSB-59-A-20130703 7/3/2013 0-2' mg/kg Fill-Sand	LSB-59-B-20130703 7/3/2013 2-4' mg/kg Fill-Sand	FD-10-2013-06-30 (LSB-60-B) 6/30/2013 8-10' mg/kg Clay	LSB-60-A-2013-06-30 6/30/2013 1-3' mg/kg Fill-Clay	LSB-60-B-2013-06-30 6/30/2013 8-10' mg/kg Clay	LSB-61-A-20130625 6/25/2013 1.5-3.5' mg/kg Fill-Sand	LSB-61-B-20130625 6/25/2013 6-8' mg/kg Sand	LSB-62-A-2013-06-30 6/30/2013 0-2' mg/kg Fill-Sand	LSB-63-A-2013-06-30 6/30/2013 3-5' mg/kg Fill-Sand	LSB-63-B-2013-06-30 6/30/2013 5-7' mg/kg Silty Clay	LSB-64-A-20130628 6/28/2013 1-3' mg/kg Fill-Sand
	Unrestricted Use Objectives	Restricted Commercial																				
VOCs																						
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	0.0097 J	0.0077	0.0072	0.0073 J	0.0043 J	0.0068 J	0.0034 J	ND J	ND	ND	ND	ND	ND	ND	ND	0.015 J	ND	0.0051
Acetone	0.05	500		ND	0.033 J	0.028	0.023	0.031 J	0.02 J	0.033 J	0.022 J	ND J	ND	0.0026 J	ND	ND	ND	ND	0.039 J	0.0093	0.022
Benzene	0.06	44		ND	ND	ND	ND	0.0033 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																						
Acenaphthene	20	500		ND	ND	0.13 J	0.541	ND	0.0912 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0559 J	ND	ND
Acenaphthylene	100	500		0.0479 J	ND	0.0557 J	0.159 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		0.0878 J	ND	0.35	1.05	0.101 J	0.195	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.059 J	ND	ND
Benzo(a)anthracene	1	5.6		0.347	0.092 J	0.887	**2.56**	0.26 J	0.479 J	0.1 J	0.0752 J	0.174 J	ND	ND	0.0964 J	ND	0.105 J	0.238 J	ND	ND
Benzo(a)pyrene	1	1		0.502 J	0.133 J	0.966 J	**3.79 J**	0.379 J	0.628 J	0.249 J	0.122 J	0.169 J	ND	ND	0.0606 J	ND	0.106 J	0.245 J	ND	ND
Benzo(b)fluoranthene	1	5.6		0.395 J	0.114 J	0.577 J	**3.24 J**	0.409 J	0.549 J	0.256 J	0.0972 J	0.215	ND	ND	0.125 J	ND	0.0874 J	0.18 J	ND	ND J
Benzo(g,h,i)perylene	100	500		ND J	ND J	0.24 J	0.544 J	ND J	ND J	ND J	ND J	0.16 J	ND	ND	ND	ND	0.136 J	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		0.591 J	0.142 J	**0.838 J**	**3.2 J**	0.315 J	0.582 J	0.238 J	0.107 J	0.205	ND	ND	0.0859 J	ND	0.0918 J	0.202 J	ND	ND
Chrysene	1	56		0.376	0.145 J	0.87	**3.28**	0.307 J	0.523 J	0.127 J	0.0895 J	0.217	ND	ND	0.177 J	ND	0.11 J	0.213 J	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		0.0635 J	ND J	ND J	0.291 J	ND J	ND J	ND J	ND J	0.0522 J	ND J	ND J	ND	ND	ND J	0.0691 J	ND J	ND
Dibenzofuran	7	350		ND	ND	0.0616 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		0.568	0.143 J	2.24	5.9	0.447	0.812	0.158 J	0.137 J	0.187 J	ND	ND	0.277	ND	0.195 J	0.425 J	ND	ND J
Fluorene	30	500		ND	ND	0.132 J	0.513	ND	0.0745 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		0.0852 J	ND J	0.282 J	**0.65 J**	0.0526 J	0.0928 J	ND J	ND J	0.143 J	ND J	ND J	ND	ND	0.0622 J	0.128 J	ND J	ND
Naphthalene	12	500		ND	ND	ND	0.343	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND J
Phenanthrene	100	500		0.33	0.0983 J	1.02	3.96	0.36	0.682	0.0908 J	0.0865 J	ND J	ND	ND	0.234	ND	0.142 J	0.27 J	ND	ND
Pyrene	100	500		0.793	0.181 J	1.96	5.97	0.783 J	1.28 J	0.334 J	0.192 J	0.347	ND	ND	0.178 J	ND	0.171 J	0.349	ND	ND
PCBs																						
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	0.0729	0.031	ND	ND	ND	ND	ND	0.698	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	0.0729	0.031	ND	ND	ND	ND	ND	**0.698**	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																						
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	**0.00697**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																						
Arsenic	13	16		5.38	5.01	4.73	12.3	4.98	5.01	8	3.13	5.81 J	5.14	2.51	ND	4.23	4.28	3.79 J	1.41	ND
Barium	350	400		63.2	57.3	110	150	105	97.8	81.9	41	34.8 J	170	36.5	113	87.8	71.3	75.7 J	42.5	65.3
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	0.232	ND	0.284 J	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	1.63	ND	ND	0.388	0.355	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		**102**	**39.3**	**60**	**35.4**	**165**	**129**	18.6	10.2	9.43 J	**165**	8.69	**4,330**	**57.2**	20.2	27.4 J	11.7	11.7
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**364**	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		102	39.3	60	35.4	165	129	18.6	10.2	9.43 J	165	8.69	4,694	57.2	20.2	27.4 J	11.7	11.7
Copper	50	270		25.6	12.8	20.3	33.9	31.3	25.2	23.1	23	20.9	23.8	11.6	12.7	20.8	13	16.3	15.1	3.76
Lead	63	1,000		62.3	23.6	25	**181**	**116**	**86**	**181**	41.7	6.93 J	16.5	6.27	20.9	11.2	14.7	13.7 J	6.22	4.43
Manganese	1,600	10,000		485 J	122 J	458	300	645 J	540 J	803 J	468 J	373 J	650	356	**1,630**	207	298	210 J	206	52.7
Mercury	0.18	2.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.248 J**	0.0275	ND	ND	ND	ND
Nickel	30	310		28.2	24.6	29.4	27.7	**33.8**	**37.5**	21.9	15.3	20.8	**43.2**	17	**220**	**33.7**	24.2	**30**	19.7	11.4
Selenium	3.9	1,500		ND	1.66	ND	ND	1.45	ND	ND	ND	ND	ND	ND	ND	ND	1.67	1.66	ND	ND
Zinc	109	10,000		**238 J**	51.2 J	**181**	**464**	**294 J**	**147 J**	**283 J**	**292 J**	50.2	85.3	41.1	24 J	**128 J**	66.2	67.6	62.5	59.2
Cyanide	27	27		ND	ND	ND	2.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-64-B-20130628	LSB-65-A-20130628	LSB-65-B-20130628	LSB-66-A-20130628	LSB-66-B-20130628	LSB-67-A-20130628	LSB-67-B-20130628	LSB-68-A-20130628	LSB-68-B-20130628	LSB-69-A-20130627	LSB-69-B-20130627	LSB-70-A-20130627	LSB-70-B-20130627	LSB-71-A-20130627	LSB-71-B-20130627	LSB-72-A-20130627	LSB-72-B-20130627	LSB-73-A-20130627
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013
			Sampling Depth	4-6'	1-3'	5.75-7.75'	1-3'	10-12'	1-3'	5-7'	1-2'	2-4'	1-3'	5-7'	0.42-1.25'	2-4'	2-2.75'	4.75-5.8'	1-3'	9-11'	1-3'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Sand	Fill-Sand	Sand	Fill-Sand	Clay	Fill-Clay	Silty Sand	Fill-Sand	Sand	Fill-Sand	Sand	Fill-Sand	Fill-Sand	Fill-Clay	Fill-Clay	Fill-Sand	Clay	Fill-Sand
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	ND	ND	ND	0.0079	ND	0.0092	0.0023 J	0.0048	0.014	ND	ND	ND	0.0061	0.0077	ND	0.0046
Acetone	0.05	500		ND	ND	ND	ND	ND	0.033	ND	0.033	ND	0.02	0.047	0.016	0.0084	ND	0.026	0.028	0.0039 J	0.016
Benzene	0.06	44		ND	ND	ND	ND	ND	0.0022 J	0.002 J	ND	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	5.6		ND J	ND	ND	ND	ND	0.228 J	ND	ND	ND	ND J	ND	ND	ND	0.134 J	ND	ND	ND	ND
Benzo(a)pyrene	1	1		ND	ND	ND	ND	ND	0.287 J	ND	ND	ND	**1.22 J**	ND	ND	ND	0.16 J	ND	ND	ND	ND
Benzo(b)fluoranthene	1	5.6		ND J	ND J	ND J	ND J	ND J	0.18 J	ND J	ND J	ND J	ND J	ND	ND	ND	0.169 J	ND J	ND	ND	ND
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	ND	ND	ND	ND	0.174 J	ND	ND	ND	ND J	ND	ND	ND	0.159 J	ND	ND	ND	ND
Chrysene	1	56		ND J	ND	ND	ND	ND	0.307 J	ND	ND	ND	ND J	ND	0.057 J	ND	0.138 J	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND J	ND J	ND J	ND J	ND J	0.369 J	ND J	ND J	ND J	1.62 J	ND	0.0912 J	ND	0.194 J	ND J	ND	ND	ND
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND J	ND	ND	ND	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND	ND J	ND	ND	ND J	ND	ND	ND
Phenanthrene	100	500		ND	ND	ND	ND	ND	0.258 J	ND	ND	0.0567 J	ND J	ND	0.0623 J	ND	0.15 J	ND	ND	ND	ND
Pyrene	100	500		ND J	ND	ND	ND	ND	0.614 J	ND	ND	0.0714 J	ND J	ND	0.101 J	ND	0.268 J	ND	ND	ND	ND
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.271 J	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.271 J**	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.52**	ND	ND	ND	**0.0301 J**	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	0.0284	ND	ND	ND	**0.095**	ND	ND	ND	**0.34 J**	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		5.46	2.86	3.47	4.34	1.76	2.68	1.24	4.86	4.14	2.42	4.05	ND	2.14	2.2	11.2	2.4	1.58	2.76
Barium	350	400		65.6	71.3	67.6	44.2	47.2	55.2	45.4	75.8	46.7	38.7	112	39.8	29.2	116	76.9	48.4	39.4	47.1
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.442	ND	ND	0.229	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	0.479	ND	ND	ND	ND	0.426	ND	ND	ND	0.717	ND	ND	0.48	ND
Chromium, Trivalent	30	1,500		14.9	14	14	15	5.84	**114**	7.32	22.4	12.3	**179**	26.3	**3,690**	10.5	**101**	20.9	11.5	5.07	18.6
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	**486**	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		14.9	14	14	15	5.84	114	7.32	22.4	12.3	179	26.3	4,180	10.5	101	20.9	11.5	5.07	18.6
Copper	50	270		30.3	15	20.6	22	17.1	27.1	6.94	13.3	14.8	11	23.5	14.3	13	22.1	21.8	9	7.99	10.9
Lead	63	1,000		8.38	7.13	8.21	8.4	21.4	26.3	3.36	**173**	7.49	40.2	18.4	20.3	5.57	39.1	24	8.75	30	9.02
Manganese	1,600	10,000		385	343	354	226	597	502	215	162	216	410	202	742	185	375	450	107	564	118
Mercury	0.18	2.8		ND	ND	ND	ND	ND	ND	ND	**0.291**	ND	ND	ND	ND	ND	ND	0.124	ND	ND	ND
Nickel	30	310		27.7	24.9	25.1	24.5	9.25	25.4	11.4	20.2	21.7	25.5	**30.3**	**233**	16.6	25.7	24.3	15.8	7.78	17.8
Selenium	3.9	1,500		ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND	2.01	ND	ND	ND	ND	ND	ND	1.46
Zinc	109	10,000		68.9	57.1	64.6	60.4	**209**	**142**	31.5	**147**	50.6	**159**	**211**	17.1 J	51.6 J	**386 J**	99.5 J	57.4 J	**174 J**	52.5 J
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LSB-73-B-20130627	LSB-74-A-20130627	LSB-75-A-20130627	LSB-75-B-20130627	LSB-76-A-20130628	LSB-76-B-20130628	LTP-1-A-20130628	LTP-2-A-20130628	LTP-2-B-20130628	LTP-3-A-20130628	LTP-4-A-20130625	LTP-4-B-20130625	LTP-5-A-20130625	LTP-5-B-20130625	LTP-6-A-20130625	LTP-6-B-20130625	LTP-7-A-20130625	LTP-7-B-20130625
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
			Sampling Depth	6-8'	1-3'	1-3'	10-12'	2-4'	4-6'	1-3'	1-3'	4-6'	1-3'	1-3'	8-10'	1-2'	8-10'	1-2.5'	8-10'	1-3'	2-4'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Sand	Fill-Sand	Fill-Sand	Sand	Fill-Sand	Sand	Fill-Sand	Fill-Sand	Sand/Clay	Fill-Sand	Fill-Sand	Sand	Fill-Sand	Clay	Fill-Clay	Clay	Fill-Sand	Fill-Sand/Clay
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	0.016	ND	0.0077	0.0027 J	0.0029 J	ND	ND	0.0067	ND	ND	0.012	ND	ND	ND	ND	0.02
Acetone	0.05	500		0.007 J	0.0052 J	0.043	0.014	0.03	ND	ND	ND	ND	0.031	ND	ND	0.038	ND	ND	ND	ND	**0.059**
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.0027 J	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	0.114 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.162 J	ND	0.048 J	0.0689 J
Benzo(a)anthracene	1	5.6		ND	ND	ND	ND	0.283 J	ND	ND	ND	ND	ND	0.175 J	ND	0.264	ND	0.147 J	ND	0.235	0.215 J
Benzo(a)pyrene	1	1		ND	ND	ND	ND	0.383 J	ND	ND	ND	ND	ND	0.229	ND	0.302	ND	0.197	ND	0.315	0.285
Benzo(b)fluoranthene	1	5.6		ND	ND	ND	ND	0.443 J	ND	ND	ND	ND	ND	0.204	ND	0.283	ND	0.231	ND	0.29	0.266
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	0.149 J	ND	ND	ND	0.112 J	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	ND	ND	ND	0.347 J	ND	ND	ND	ND	ND	0.261	ND	0.326	ND	0.162 J	ND	0.3	0.245
Chrysene	1	56		ND	ND	ND	ND	0.372 J	ND	ND	ND	ND	ND	0.188	ND	0.248	ND	0.163 J	ND	0.268	0.23
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.051 J	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	ND	ND	ND	0.579 J	ND	ND	ND	ND	ND	0.322	ND	0.457	ND	0.281	ND	0.449	0.391
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND	ND	ND	0.0667 J	ND	ND	ND	ND	ND	0.144 J	ND	0.107 J	ND	0.118 J	ND	0.0875 J	0.0916 J
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	ND	ND	ND	0.307	ND	ND	ND	ND	ND	0.161 J	ND	0.127 J	ND	0.163 J	ND	0.209	0.269
Pyrene	100	500		ND	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	0.242	ND	0.376	ND	0.271 J	ND	0.48 J	0.386 J
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		2.47	3.66	2.29	1.41	ND	5.36	6.81	3.66	4.36	3.53	11.2	3.31	5.59	7.99	ND	4.07	4.65	4.35
Barium	350	400		42.2	9.23	55.6	45.7	101	38.4	136	50.1	55.5	45.4	55.2	52.8	93.6	83.2	33.5	44.6	71.7	60.9
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	0.563	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31	ND	1.19	ND	ND	ND
Chromium, Trivalent	30	1,500		10.2	7.53	11.9	12.3	**3,140**	11.3	25.4	13.7	11.6	22	**30**	12.4	**99.4**	14.4	**310**	13	15.4	**40.6**
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.02**	ND	ND	ND	ND
Chromium, Total	NE	NE		10.2	7.53	11.9	12.3	3,140	11.3	25.4	13.7	11.6	22	30	12.4	99.4	16.4	310	13	15.4	40.6
Copper	50	270		13.5	ND	12.9	16	**94.3**	17.5	16.6	16	23.2	12.2	20.1	16	13.8	37.1	9.94	18.3	18.7	16.4
Lead	63	1,000		5.65	56.7	7.21	6.89	**80.4**	6.17	17.1	7.17	5.64	11.7	22	7.73	21.2	10.3	53.3	6.63	**83.8**	22.7
Manganese	1,600	10,000		334	663	127	360	1,010	358	640	189	445	357	266	382	**7,830**	683	544	204	373	235
Mercury	0.18	2.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.165 J	0.0131 J	0.136 J	0.0132 J	**0.234**	0.01	0.109	**0.353**
Nickel	30	310		17.6	5.26	18.3	19.5	**2,440**	20	**49**	21.3	20	19.5	19.2	19.5	**43.1**	**32.9**	**57.8**	18.2	14.7	28
Selenium	3.9	1,500		ND	ND	ND	ND	1.63	ND	ND	ND	ND	ND	ND	ND	**4.39**	ND	ND	ND	ND	1.8
Zinc	109	10,000		48.6 J	95.7 J	60.5 J	45.2 J	**232**	55.4	**195**	64.7	63.8	58.8	102	52.8	90.9	59.4	**402 J**	55.3 J	**162 J**	72 J
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units	LTP-8-A-20130625 6/25/2013 2-4' mg/kg	LTP-8-B-20130625 6/25/2013 6-8' mg/kg	LTP-9-A-20130625 6/25/2013 1-2.5' mg/kg	LTP-9-B-20130625 6/25/2013 8-10' mg/kg	LTP-10-A-20130627 6/27/2013 1-2' mg/kg	LTP-10-B-20130627 6/27/2013 3-4' mg/kg	LTP-11-A-20130627 6/27/2013 1-3' mg/kg	LTP-11-B-20130627 6/27/2013 5-7' mg/kg	FD-3-20130627 (LTP-12-B) 6/27/2013 4-6' mg/kg	LTP-12-A-20130627 6/27/2013 0-2' mg/kg	LTP-12-B-20130627 6/27/2013 4-6' mg/kg	LTP-13-A-20130626 6/26/2013 3-5' mg/kg	LTP-13-B-20130626 6/26/2013 12-14' mg/kg	LTP-14-A-20130627 6/27/2013 0-2' mg/kg	LTP-14-B-20130627 6/27/2013 2-4' mg/kg	LTP-15-A-20130627 6/27/2013 3-5' mg/kg	LTP-15-B-20130627 6/27/2013 6-8' mg/kg	LTP-16-A-20130626 6/26/2013 3-5' mg/kg
	Unrestricted Use Objectives	Restricted Commercial	Sample Medium	Fill-Sand	Clay	Fill-Sand	Clay	Fill-Sand	Fill-Gravel	Sand	Sand	Clay	Fill-Sand	Clay	Fill-Sand	Clay	Fill-Sand	Fill-Sand	Fill-Sand	Sand	Fill-Sand
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	ND	ND	ND	0.021 J	0.0066	ND	ND	ND	ND	0.0055	ND	ND	0.0038 J	ND	ND	ND
Acetone	0.05	500		ND	ND	ND	ND	ND	**0.057 J**	**0.052**	ND	ND	ND	ND	0.023	ND	ND	ND	ND	ND	0.016 J
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	ND	ND	0.0985 J	0.187 J	ND	ND	ND	0.341 J	ND	ND	ND	0.273	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	0.143 J	ND	0.0655 J	0.12 J	0.295	ND	0.0689 J	ND	0.516 J	ND	ND	ND	0.424	ND	ND	ND
Benzo(a)anthracene	1	5.6		0.125 J	ND	0.388	ND	0.148 J	0.399	0.631	ND	0.182 J	0.0798 J	0.664 J	0.0589 J	ND	ND	0.993	0.069 J	ND	ND
Benzo(a)pyrene	1	1		0.138 J	ND	0.327	ND	0.149 J	0.499	0.628	ND	0.195 J	0.0784 J	0.931 J	0.0804 J	ND	0.0555 J	0.888	0.0884 J	ND	ND
Benzo(b)fluoranthene	1	5.6		0.155 J	ND	0.328	ND	0.123 J	0.4	0.551	ND	0.153 J	0.0598 J	0.63 J	0.0845 J	ND	0.0517 J	0.731	0.0781 J	ND	ND
Benzo(g,h,i)perylene	100	500		ND	ND	0.181 J	ND	ND	0.178 J	0.152 J	ND	ND	ND	0.145 J	ND	ND	ND	0.264	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		0.154 J	ND	0.32	ND	0.137 J	0.437	0.562	ND	0.18 J	0.0765 J	0.526 J	0.0678 J	ND	0.0498 J	0.786	0.0726 J	ND	ND
Chrysene	1	56		0.115 J	ND	0.412	ND	0.144 J	0.415	0.635	ND	0.188 J	0.082 J	0.821 J	0.0674 J	ND	0.0487 J	0.956	0.0832 J	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	0.0641 J	ND	ND	0.0825 J	0.0826 J	ND	ND J	ND	0.0857 J	ND	ND	ND	0.144 J	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	0.104 J	ND	ND J	ND	0.138 J	ND	ND	ND	0.109 J	ND	ND	ND
Fluoranthene	100	500		0.202	ND	1.38	ND	0.354	0.808	1.3	ND	0.345 J	0.184	1.38 J	0.11 J	ND	0.076 J	2.89	0.163 J	ND	ND
Fluorene	30	500		ND	ND	ND	ND	ND	0.0645 J	0.202	ND	ND	ND	0.267 J	ND	ND	ND	0.218	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		0.0845 J	ND	0.168 J	ND	0.0632 J	0.209 J	0.171 J	ND	0.0761 J	ND	0.129 J	ND	ND	ND	0.311	ND	ND	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	0.0655 J	0.0834 J	ND	ND J	ND	0.0645 J	ND	ND	ND	0.113 J	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		0.14 J	ND	0.446	ND	0.261	0.503	1.13	ND	ND J	0.135 J	1.98 J	0.0723 J	ND	ND	1.58	0.0674 J	ND	ND
Pyrene	100	500		0.165 J	ND	0.942	ND	0.313 J	0.764	1.49	ND	0.467 J	0.174 J	2 J	0.0885 J	ND	0.0745 J	2.59	0.153 J	ND	ND
PCBs																					
Aroclor 1248	NE	NE		ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND J	ND	0.334	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND J	ND	**0.334**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	0.00326	ND	ND	ND	ND	**0.00574**	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	**0.00456**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		2.98	4.09	4.52	2.87	3.49	4.31	ND	2.18	9.27	3.91	8.02	4.05	2.48	3.35	3.12	3.03	1.8	3.47
Barium	350	400		44.1	53.5	77.2	56.2	61.4	108	78.4	32.3	149	60.1	164	68.2	74	47.5	115	43.2	29.1	46.3
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.596	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		**30.9**	**58**	**36.2**	**31.7**	**190**	**74.6**	**3,540**	8.94	**40.7 J**	**35.5**	**145 J**	29.3	11.6	28.4	**298**	17.5	11.1	18.7
Chromium, Hexavalent	1	400		ND	ND	ND	ND	**1.27**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		30.9	58	36.2	31.7	191	74.6	3,540	8.94	40.7 J	35.5	145 J	29.3	11.6	28.4	298	17.5	11.1	18.7
Copper	50	270		10.4	18.4	10.2	14.3	14.8 J	23.4 J	15.1 J	15.7 J	31.7 J	12.5 J	38 J	13.9	11.3	13.9 J	24.1 J	13.4 J	10.4 J	14.3
Lead	63	1,000		9.64	9.25	7.62	5.92	27.1	36.2	34.5	5.65	**245**	32.9	**332**	14.2	35.1	18.1	**85.9**	14.2	4.23	8.07
Manganese	1,600	10,000		128	711	144	337	285	165	1,430	376	486	429	560	297	684	218	342	215	273	237
Mercury	0.18	2.8		**0.199 J**	0.0106 J	0.114 J	0.013 J	**0.306**	ND	ND	ND	ND	ND	ND	0.149	0.00821 J	ND	ND	ND	ND	0.0429
Nickel	30	310		18.1	25.8	14.7	20.8	29	29.4	**178**	17.3	29.8	14.2	**32.9**	24.9	17.9	18.9	**39.6**	18.2	13.4	20.5
Selenium	3.9	1,500		ND	ND	1.27	ND	1.37	ND	ND	ND	1.51	ND	1.58	ND	ND	1.16	ND	ND	ND	ND
Zinc	109	10,000		47.3	55.9	47.4	47.9	65.4	75.5	59.3	38.9	**225**	102	**276**	70	**254**	72.4	**122**	52.1	37.8	63.3
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LTP-16-B-20130626	LTP-17-A-20130625	LTP-17-B-20130625	LTP-18-A-20130626	LTP-18-B-20130626	LTP-19-A-20130625	LTP-19-B-20130625	LTP-20-A-20130625	LTP-20-B-20130625	LTP-21-A-20130627	LTP-21-B-20130627	FD-4-20130627 (LTP-22-A)	LTP-22-A-20130627	FD-5-20130628 (LTP-23-B)	LTP-23-A-20130628	LTP-23-B-20130628	LTP-24-A-20130702
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	6/26/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/28/2013	7/2/2013
			Sampling Depth	7-9'	1-3'	8-10'	1-3'	8-10'	3-5'	9-11'	1-3'	7-9'	3-5'	5-7'	2-4'	2-4'	6.5-8.5'	4-6'	6.5-8.5'	0-2'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Clay	Fill	Clay	Fill-Sand	Clay	Fill-Sand/Clay	Clay	Fill-Sand	Clay	Fill-Sand	Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand
VOCs																				
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	0.0046 J	ND	0.011 J	ND	ND	ND	ND	ND	0.0066	0.011	0.0057	0.005 J	ND J	0.005 J	ND	ND
Acetone	0.05	500		0.014 J	ND	ND	0.034 J	0.0024 J	ND	ND	ND	ND	0.026	**0.05**	0.031	0.031	ND	0.022 J	ND	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																				
Acenaphthene	20	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.333 J	0.101 J	ND J	0.209 J	ND	0.158 J	ND	0.0871 J
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.132 J	ND	ND	ND	0.0582 J
Anthracene	100	500		ND	0.157 J	ND	0.105 J	ND	ND	ND	ND	ND	0.617	0.192 J	ND J	0.459 J	ND	0.651 J	ND	0.332
Benzo(a)anthracene	1	5.6		ND	0.464 J	ND	0.37	ND	ND	ND	ND	ND	**1.5 J**	0.628	0.195 J	**1.3 J**	ND	**1.26 J**	ND	**1.21**
Benzo(a)pyrene	1	1		ND	0.473 J	ND	0.42	ND	ND	ND	ND	ND	**1.22**	0.551	0.18 J	**1.21 J**	ND	**1.33 J**	ND	**1.21**
Benzo(b)fluoranthene	1	5.6		ND	0.513 J	ND	0.417	ND	ND	ND	ND	ND	**1.21 J**	0.429	0.227 J	**1.22 J**	ND	**1.14 J**	ND	**1.46**
Benzo(g,h,i)perylene	100	500		ND	0.16 J	ND	ND	ND	ND	ND	ND	ND	0.277 J	ND	ND	0.204 J	ND	0.279 J	ND	0.423
Benzo(k)fluoranthene	0.8	56		ND	0.62 J	ND	0.422	ND	ND	ND	ND	ND	**1.39 J**	0.472	0.242 J	**1.6 J**	ND J	**1.21 J**	ND J	**0.959**
Chrysene	1	56		ND	0.462 J	ND	0.402	ND	ND	ND	ND	ND	**1.21**	0.512	0.182 J	**1.12 J**	ND	**1.15 J**	ND	**1.16**
Dibenz(a,h)anthracene	0.33	0.56		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	0.0776 J	ND	ND J	ND	0.18 J	ND	0.22
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.112 J	ND	ND	ND J	ND	0.0911 J	ND	ND
Fluoranthene	100	500		ND	0.879 J	ND	0.869	ND	0.0684 J	ND	ND	ND	2.74	0.978	0.344 J	2.12 J	ND	3.34 J	ND	3.04
Fluorene	30	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.307 J	0.0748 J	ND J	0.21 J	ND	0.243 J	ND	0.0951 J
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	0.112 J	ND	0.0972 J	ND	ND	ND	ND	ND	0.394 J	0.277	ND J	0.257 J	ND	0.38 J	ND	**0.535**
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	0.0645 J	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND J
Phenanthrene	100	500		ND	0.395 J	ND	0.498	ND	0.0538 J	ND	ND	ND	1.91	0.624	0.217 J	1.33 J	ND	1.79 J	ND	1.38
Pyrene	100	500		ND	1.71 J	ND	0.954 J	ND	0.0592 J	ND	ND	ND	2.21	0.83	0.289 J	1.82 J	ND	3.66 J	ND	2.3
PCBs																				
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	0.0559	ND	ND	ND	ND	ND	ND	ND	0.51	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	0.0559	ND	ND	ND	ND	ND	ND	ND	**0.51**	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																				
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Arsenic	13	16		4.87	ND	5.82	ND	6.32	4.08	5.15	1.89	4.47	6.95	4.41	ND J	5.01 J	2.92	3.44	1.76	7.75
Barium	350	400		38.3	60.4	41.7	70	112	96.7	92.4	29.5	64.3	182	305	104 J	**477 J**	26.6 J	109 J	35.7	94.9
Beryllium	7.2	590		ND	ND	ND	ND	ND	0.197	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	2.15	ND	0.556	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		8.76	**548**	10.6	**1,560**	23.7	**30.6**	23.4	8.25	24.8	**75.8**	**345**	**1,740 J**	**87.5 J**	8 J	**137 J**	7.78	**246**
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J	ND	ND	ND	ND
Chromium, Total	NE	NE		8.76	548	10.6	1,560	23.7	30.6	23.4	8.25	24.8	75.8	345	1,740 J	87.5 J	8 J	137 J	7.78	246
Copper	50	270		14.2	16	19.8	14.6	20.5	17.3	20	8.06	15.4	**68.9**	**51**	33.2	35.8	17.8	26	6.29	32.6
Lead	63	1,000		6.09	25.1	6.36	24.7	9.08	16.1	10.4	4.07	23.3	**144**	**98**	54 J	**189 J**	4.1 J	17.7 J	3.84	**92.9**
Manganese	1,600	10,000		310	459	323	482	534	439	824	492	329	582	676	738	1,240	226 J	748 J	323	601
Mercury	0.18	2.8		0.0139	0.136	0.0128	**0.311**	0.0131	**0.477**	0.0174	0.123	0.0298	**0.272**	ND	ND	ND	ND	ND	ND	ND
Nickel	30	310		16.7	**57.3**	19.4	**113**	**34.1**	**32.7**	**36.7**	12.9	23.7	**39.9**	**184**	**170 J**	**32.7 J**	14.4 J	**45.3 J**	14.1	**45.8**
Selenium	3.9	1,500		1.31	ND	ND	ND	ND	1.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23
Zinc	109	10,000		47.2	89.2 J	51.5 J	73.9	56.3	**318 J**	56.2 J	36.2 J	69.8 J	**631**	**154**	**600 J**	**197 J**	31.6 J	68 J	33.3	97.5
Cyanide	27	27		ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND	0.594	ND	0.795	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID	LTP-24-B-20130702	LTP-25-A-20130627	LTP-25-B-20130627	FD-13-20130702 (LTP-26-A)	LTP-26-A-20130702	LTP-26-B-20130702	FD-14-20130702 (LTP-27-B)	LTP-27-A-20130702	LTP-27-B-20130702	LTP-28-A-20130626	LTP-28-B-20130626	LTP-29-A-20130626	LTP-29-B-20130626	LTP-30-A-20130626	LTP-30-B-20130626	LTP-31-A-20130626	LTP-31-B-20130626
	Unrestricted Use Objectives	Restricted Commercial	Sample Date	7/2/2013	6/27/2013	6/27/2013	7/2/2013	7/2/2013	7/2/2013	7/2/2013	7/2/2013	7/2/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
			Sampling Depth	3-5'	1-3'	3-5'	3-5'	3-5'	6-8'	6-8'	0-2'	6-8'	4-6'	6-8'	0-2'	2-4'	1-3'	4-6'	4-6'	7-9'
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Sample Medium	Fill-Clay	Fill-Sand	Fill-Clay	Fill	Fill	Sand	Sand/Clay	Fill-Sand	Sand/Clay	Sand	Sand	Fill-Sand	Fill	Fill-Sand	Fill-Sand/Clay	Clay	Clay
VOCs																				
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		0.0082	ND	0.019	0.016 J	0.0097 J	ND	ND	ND	ND	0.014	ND	ND	0.017	ND	0.0046 J	0.016	ND
Acetone	0.05	500		0.03	0.0097	**0.053**	0.048	0.029	ND	ND	ND	ND	0.031	ND	ND	**0.052**	0.011 J	ND	0.041	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	0.0027 J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	0.0053 J
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																				
Acenaphthene	20	500		ND	0.0753 J	ND	ND J	0.0939 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0873 J	ND	ND	ND	ND	ND
Anthracene	100	500		ND	0.146 J	0.142 J	ND J	0.235 J	ND	ND	0.0708 J	ND	0.0754 J	ND	0.224	ND	0.184 J	0.0573 J	ND	ND
Benzo(a)anthracene	1	5.6		ND	0.49 J	0.506	0.119 J	0.54 J	ND J	ND	0.303	ND	0.213	ND	0.687	0.0968 J	0.673	0.237	0.0589 J	ND
Benzo(a)pyrene	1	1		ND	0.647 J	0.516	0.154 J	0.572 J	ND J	ND	0.284	ND J	0.23	ND	0.644	0.123 J	0.699	0.23	0.073 J	ND
Benzo(b)fluoranthene	1	5.6		ND	0.635 J	0.592	0.129 J	0.572 J	ND J	ND	0.268	ND J	0.201	ND	0.568	0.134 J	0.706	0.275	0.0633 J	ND
Benzo(g,h,i)perylene	100	500		ND	0.241	ND	ND	ND J	ND J	ND	0.162 J	ND J	ND	ND	0.138 J	ND	0.151 J	0.131 J	ND	ND
Benzo(k)fluoranthene	0.8	56		ND	0.538 J	0.681	0.144 J	0.748 J	ND J	ND	0.269	ND J	0.221	ND	0.787	0.0981 J	0.725	0.2 J	0.0598 J	ND
Chrysene	1	56		ND	0.65 J	0.466	0.117 J	0.459 J	ND J	ND	0.294	ND	0.237	ND	0.597	0.105 J	0.679	0.236	0.0695 J	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	0.104 J	0.0814 J	ND	ND J	ND J	ND	0.095 J	ND J	ND	ND	ND	ND	0.0838 J	ND	ND	ND
Dibenzofuran	7	350		ND	ND	ND	ND J	0.0635 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	1.07 J	0.793	0.205 J	0.694 J	ND	ND	0.42	ND	0.328	ND	1.13	0.185 J	1.29	0.268	0.105 J	ND
Fluorene	30	500		ND	0.067 J	0.0542 J	ND J	0.125 J	ND	ND	ND	ND	ND	ND	0.0613 J	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	0.21 J	0.333	0.0651 J	0.132 J	ND J	ND	0.165 J	ND J	0.0723 J	ND	0.189	ND	0.181 J	0.142 J	ND	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND J	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	0.957	0.561	0.149 J	0.869 J	ND	ND	0.264	ND	0.254	ND	0.693	0.122 J	0.658	0.177 J	0.062 J	ND
Pyrene	100	500		ND	1.27 J	0.749	0.159 J	1.23 J	ND	ND	0.35	ND	0.456 J	ND	1.06	0.178 J	1.31 J	0.274	0.0972 J	ND
PCBs																				
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																				
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Arsenic	13	16		4.28	ND	2.52	3.83 J	4.86 J	2.57	3.08 J	5.46	2.23 J	8.66	2.38	8.4	4.14	ND	5.87	2.9	3.76
Barium	350	400		133	52	69.8	75.8	101	32	35	70.7	45.8	62.7	40.1	111	76.4	68	89.6	90.5	39.1
Beryllium	7.2	590		0.228	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	0.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		26	**437**	**62.6**	**30**	**40.9**	7.78	9.47	15.5	10.8	**266**	10.5	**135**	**44.2**	**6,560**	**478**	**144**	10.5
Chromium, Hexavalent	1	400		ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		26	437	62.6	30	40.9	7.78	9.47	15.5	10.8	266	10.5	135	44.2	6560	478	144	10.5
Copper	50	270		11.8	20	15.2	12	17.5	8.81	12.9	22.3	11.9	**54.6**	13	**50.4**	14.6	19	28.4	15.2	13.2
Lead	63	1,000		16.4	**91.6**	25.1	18.4	21.4	5.49	5.19	11.5	5.6	**137**	5.24	**115**	24.4	31.4	56.8	13.1	4.91
Manganese	1,600	10,000		1,220	485	151	93.1	128	362	271	687	426	582	726	582	152	802	376	210	328
Mercury	0.18	2.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.432**	0.0373	**0.325**	**0.349**	0.131	**0.614**	**0.317**	0.0161
Nickel	30	310		21.3	**95.9**	22.4	21	26.6	12.6	14.6	22.9	17.2	**96.4**	19.9	29.8	29.9	**336**	**50.7**	29	15.7
Selenium	3.9	1,500		3.01	ND	1.42	1.74 J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	109	10,000		94	**309**	67.4	68	93.3	35.3	40.6	51.4	46.1	**294**	40.7	**145**	96.5	39.7	**118**	81.2	41.3
Cyanide	27	27		ND	2.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	FD-2-20130626 (LTP-32-A) 6/26/2013 1-2' mg/kg Fill-Sand	LTP-32-A-20130626 6/26/2013 1-2' mg/kg Fill-Sand	LTP-32-B-20130626 6/26/2013 4-6' mg/kg Clay	LTP-33-A-20130702 7/2/2013 3-5' mg/kg Fill-Sand/Silt	LTP-33-B-20130702 7/2/2013 5-7' mg/kg Silty Clay	LTP-34-A-20130702 7/2/2013 0-2' mg/kg Fill-Sand	LTP-34-B-20130702 7/2/2013 5-7' mg/kg Sand	FD-15-20130702 (LTP-35-B) 7/2/2013 7-9' mg/kg Clay	LTP-35-A-20130702 7/2/2013 0-2' mg/kg Fill-Sand	LTP-35-B-20130702 7/2/2013 7-9' mg/kg Clay	LTP-36-A-20130702 7/2/2013 0-2' mg/kg Fill-Sand	LTP-36-B-20130702 7/2/2013 6-8' mg/kg Clay	LTP-37-A-20130702 7/2/2013 2-4' mg/kg Fill	LTP-37-B-20130702 7/2/2013 8-10' mg/kg Clay	LTP-38-A-20130702 7/2/2013 2-4' mg/kg Fill	LTP-38-B-20130702 7/2/2013 5-7' mg/kg Clay	LTP-39-A-20130702 7/2/2013 0-2' mg/kg Fill
	Unrestricted Use Objectives	Restricted Commercial																		
VOCs																				
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	0.0068	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		0.01 J	ND J	0.018	ND	0.0026 J	ND	ND	ND J	ND	0.0023 J	ND	ND	ND	ND	ND	ND	ND
Acetone	0.05	500		0.038 J	ND	0.047	0.041	0.023	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.06	44		ND	ND	0.0033 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																				
Acenaphthene	20	500		3.77 J	ND J	ND	2.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.456	ND	ND	ND	0.668
Acenaphthylene	100	500		ND	ND	ND	2.05	ND	ND	ND	ND	ND	ND	ND	0.0573 J	ND	0.161 J	ND	ND	ND	ND
Anthracene	100	500		6.74 J	ND J	ND	10	0.078 J	0.0834 J	ND	ND	ND	ND	ND	0.293	ND	1.14	ND	0.0787 J	ND	0.997
Benzo(a)anthracene	1	5.6		**14.3 J**	**1 J**	0.0867 J	**25.3**	0.184 J	0.539	ND	0.11 J	0.0973 J	ND J	0.461	ND	**3.13 J**	ND J	0.266 J	ND	**2.56**
Benzo(a)pyrene	1	1		**17.1 J**	**1.15 J**	0.105 J	**23**	0.188 J	0.353	ND	0.145 J	0.149 J	ND J	0.422	ND	**2.74 J**	ND J	0.271 J	ND	**2.15**
Benzo(b)fluoranthene	1	5.6		**17.4 J**	ND J	0.0912 J	**21.3**	0.162 J	0.598	ND	0.125 J	0.135 J	ND J	0.352	ND	**1.91 J**	ND J	0.299 J	ND	**1.77**
Benzo(g,h,i)perylene	100	500		6.26 J	ND J	ND	11.2	ND	0.257	ND	ND	ND J	ND	0.116 J	ND	0.386 J	ND J	ND J	ND	0.751
Benzo(k)fluoranthene	0.8	56		**13.1 J**	**0.985 J**	0.0835 J	**17.1**	0.203	0.398	ND	0.145 J	0.151 J	ND J	0.416	ND	**2.3 J**	ND J	0.377 J	ND	**0.916**
Chrysene	1	56		**19.9 J**	**1.68 J**	0.0812 J	**20.9**	0.167 J	0.703	ND	0.122 J	0.121 J	ND J	0.391	ND	**2.61 J**	ND J	0.267 J	ND	**2.36**
Dibenz(a,h)anthracene	0.33	0.56		**3.13 J**	ND J	ND	**2.37**	ND	0.121 J	ND	ND	ND	ND	0.0629 J	ND	0.264 J	ND J	ND J	ND	**0.407**
Dibenzofuran	7	350		2.79 J	ND J	ND	1.82	ND	ND	ND	ND	ND	ND	ND	ND	0.262	ND	ND	ND	0.371
Fluoranthene	100	500		32.5 J	2.11 J	0.0698 J	42.5	0.372	0.7	ND	0.215 J	0.2	ND J	0.876	ND	6.02	ND	0.455	ND	5.02
Fluorene	30	500		3.21 J	ND J	ND	3.42	ND	ND	ND	ND	ND	ND	0.0904 J	ND	0.647	ND	ND	ND	0.712
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0837 J	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		**5.7 J**	ND J	0.0634 J	**12.6**	0.0674 J	0.248	ND	0.0515 J	ND	ND J	0.155 J	ND	**0.579 J**	ND J	0.0601 J	ND	**0.875**
Naphthalene	12	500		3.49 J	ND J	ND	1.01	ND	ND	ND	ND	ND	ND	ND	ND	0.0815 J	ND	ND	ND	0.107 J
Pentachlorophenol	0.8	6.7		ND J	ND J	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
Phenanthrene	100	500		27.8 J	1.69 J	0.0958 J	34.1	0.255	0.385	ND	0.141 J	0.0903 J	ND J	0.793	ND	5.48	ND	0.361	ND	5.04
Pyrene	100	500		35.7 J	2.57 J	0.0981 J	32.9	0.308	0.566	ND	0.242 J	0.219	ND J	0.767	ND	4.59	ND	0.592	ND	3.54
PCBs																				
Aroclor 1248	NE	NE		ND	ND	ND	0.103	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	**0.103**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides/Herbicides																				
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	0.00614	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00365	ND	ND
beta-BHC	0.036	3		ND	ND	ND	**0.0663**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Arsenic	13	16		**35.6 J**	12 J	10.8	5.69	2	4.43	3.46	11.7 J	5.87	3.62 J	7.36	3.63	9.04	5.58	4.69	4.14	10.7
Barium	350	400		293 J	146 J	81.1	215	53.3	81.7	42.8	147 J	74.2	36 J	87.8	33.4	136	152	92.5	55.2	105
Beryllium	7.2	590		ND	ND	ND	ND	ND	ND	ND	0.414 J	ND	ND J	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		**199 J**	**85.9 J**	26.4	**329**	12.6	**201**	11.4	**47.4 J**	20.4	9.83 J	20.9	9.78	21.6	28.6	**95**	13.8	**46.7**
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		199 J	85.9 J	26.4	329	12.6	201	11.4	47.4 J	20.4	9.83 J	20.9	9.78	21.6	28.6	95	13.8	46.7
Copper	50	270		42.9	37.6	29.4	29.9	12	18.5	16.7	36.5 J	20.7	15.5 J	23.1	12.8	**117**	27.2	21.8	16.9	35
Lead	63	1,000		**74.8**	**71.3**	51.1	**244**	5.35	18.9	8.28	**179 J**	**64.5**	6.65 J	**97.1**	5.97	**64.4**	9.23	**63.5**	6.8	25.3
Manganese	1,600	10,000		**2,940 J**	702 J	330	854	182	741	325	1,300 J	493	274 J	853	340	241	607	445	270	940
Mercury	0.18	2.8		**0.234 J**	**0.67 J**	**0.192 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	30	310		**106 J**	**33.6 J**	**32.2**	**73.9**	19.5	**42.9**	17.1	**42.4 J**	21.3	16.4 J	22.1	16.6	20.3	**39.3**	**36.4**	21	23.3
Selenium	3.9	1,500		2.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.53	ND	2.57	ND	ND	ND	ND
Zinc	109	10,000		46.4	75.9	93.2	**232**	52.6	53.3	50.4	**235 J**	**115**	45.8 J	**173**	42.6	**207**	70.8	**148**	55.5	**116**
Cyanide	27	27		ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	0.719	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives Unrestricted Use Objectives	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives Restricted Commercial	Sample ID / Sample Date / Sampling Depth / Units / Sample Medium	LTP-39-B-20130702 7/2/2013 5-7' mg/kg Clay	LTP-40-A-20130703 7/3/2013 3-5' mg/kg Clay	LTP-40-B-20130703 7/3/2013 6-8' mg/kg Clay	LTP-41-A-20130626 6/26/2013 1-3' mg/kg Fill-Sand	LTP-41-B-20130626 6/26/2013 7-9' mg/kg Clay	FD-6-20130628 (LTP-42-A) 6/28/2013 0-2' mg/kg Fill-Sand	LTP-42-A-20130628 6/28/2013 0-2' mg/kg Fill-Sand	LTP-42-B-20130628 6/28/2013 8-10' mg/kg Clay	LTP-43-A-20130626 6/26/2013 1-3' mg/kg Fill-Sand	LTP-43-B-20130626 6/26/2013 8-10' mg/kg Clay	FD-7-20130629 (LTP-44-B) 6/29/2013 8-10' mg/kg Clay	LTP-44-A-20130629 6/29/2013 0-2' mg/kg Fill-Sand	LTP-44-B-20130629 6/29/2013 8-10' mg/kg Clay	LTP-45-A-20130702 7/2/2013 1.5-3.5' mg/kg Fill-Sand	LTP-45-B-20130702 7/2/2013 6-8' mg/kg Silty Clay	LTP-46-A-20130702 7/2/2013 0-2' mg/kg Fill-Sand	LTP-46-B-20130702 7/2/2013 2-4' mg/kg Fill
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		0.0028 J	0.016 J	0.003 J	ND	0.003 J	ND	ND	ND	ND	ND	ND	0.0069	ND	ND	ND	ND	ND	ND
Acetone	0.05	500		0.019	0.046 J	0.023 J	ND	0.022 J	ND	ND	ND	ND	ND	ND	0.03	0.011	ND	ND	ND	ND	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	ND	0.0726 J	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	0.153 J	ND	0.0599 J	0.0739 J	ND	0.163 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	5.6		ND	0.158 J	ND	0.404	ND	0.158 J	0.243 J	ND	0.199	ND	ND	ND	ND	ND	0.203	ND	0.0901 J	0.128 J
Benzo(a)pyrene	1	1		ND	0.196 J	ND	0.408	ND	0.204 J	0.273 J	ND	0.22	ND	ND	ND	ND	ND	0.179 J	ND	0.129 J	0.184 J
Benzo(b)fluoranthene	1	5.6		ND	0.167 J	ND	0.346	ND	0.125 J	0.234 J	ND	0.339	ND	ND	ND	ND	ND	0.181 J	ND	0.154 J	0.181 J
Benzo(g,h,i)perylene	100	500		ND	0.144 J	ND	0.218	ND	ND	0.0963 J	ND	0.119 J	ND	ND	ND	ND	ND	0.114 J	ND	ND J	ND J
Benzo(k)fluoranthene	0.8	56		ND	0.166 J	ND	0.351	ND	0.178 J	0.244 J	ND J	0.364	ND	ND	ND	ND	ND	0.194 J	ND	0.136 J	0.164 J
Chrysene	1	56		ND	0.154 J	ND	0.408	ND	0.208 J	0.256	ND	0.201	ND	ND	ND	ND	ND	0.28	ND	0.0962 J	0.128 J
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	0.0851 J	ND	ND J	0.0497 J	ND	0.0509 J	ND	ND	ND	ND	ND	0.0537 J	ND	ND J	ND J
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	0.207 J	ND	0.789	ND	0.385 J	0.45	ND	0.284	ND	ND	ND	ND	ND	0.377	ND	0.141 J	0.206
Fluorene	30	500		ND	ND	ND	0.0695 J	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND J	**0.36 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.92**	**4.98**
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	0.146 J	ND	0.225	ND	0.0676 J	0.113 J	ND	0.102 J	ND	ND	ND	ND	ND	0.0972 J	ND	ND J	0.0546 J
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND J	ND J	ND J	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND J
Phenanthrene	100	500		ND	0.174 J	ND	0.552	ND	0.218 J	0.297 J	ND	0.164 J	ND	ND	ND	ND	ND	0.175 J	ND	0.125 J	0.123 J
Pyrene	100	500		ND	0.193 J	ND	0.786 J	ND	0.445 J	0.555	ND	0.545 J	ND	ND	ND	ND	ND	0.376	ND	0.201	0.278
PCBs																					
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND J	0.0935 J	ND	ND	ND	ND	ND	ND	ND	1.07	ND	8.31	23
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.339	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND J	0.0935 J	ND	ND	ND	ND	ND	ND	ND	**1.07**	**0.339**	**8.31**	**23**
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.00356**	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	**0.00332**	ND	ND	ND	ND	ND	ND	ND	**0.00379**	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	**0.00614**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.232**	**0.182 J**
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.268**	ND	**1.46**	**0.491 J**
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.199**	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.161**	0.062 J
Metals																					
Arsenic	13	16		2.7	3.55	2.07	4.92	3.15	6.82	6.99	11.1	5.24	7.85	2.87 J	6.6	4.89 J	5.16	5.32	8.47	7.93
Barium	350	400		80.9	96.6	48.9	74.4	96.3	89.5	108	191	98	132	33.9 J	70.9	85 J	73.2	108	87.8	94.9
Beryllium	7.2	590		ND	ND	ND	ND	0.141	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		14.9	**66.4**	13.5	16.7	18.7	18.7	17.4	24.2	20.4	27.6	9.12	**248**	15.2	**209**	23.3	25.2	22.3
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		14.9	66.4	13.5	16.7	18.7	18.7	17.4	24.2	20.4	27.6	9.12	248	15.2	209	23.3	25.2	22.3
Copper	50	270		16.6	12.7	11.9	31.2	10.3	28.1	34.3	35.5	27.5	22.8	10.9	25.8	15.1	19.4	25.6	41.2	29.9
Lead	63	1,000		6.17	12.2	6.24	**96.2**	7.82	50.3	**75.3**	8.34	**160**	9.17	5.03	**155**	7.24	34.4	7.43	**72.7**	46.1
Manganese	1,600	10,000		110	864 J	168 J	493	141	588	633	1,360	407	617	289	547	427	504	406	382	999
Mercury	0.18	2.8		ND	ND	ND	0.162	0.0408	ND	ND	ND	**0.333**	0.0162	ND	ND	ND	ND	ND	**0.252**	ND
Nickel	30	310		19.2	27.7	19.2	21.3	23.9	21.8	23.8	**59.4**	23.3	**40.1**	14.7	**45.1**	22	**30.2**	**37.2**	**37.1**	29.6
Selenium	3.9	1,500		ND	1.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.63
Zinc	109	10,000		61.6	83 J	54.9 J	**321**	103	68.5	78.9	67	**294**	59.9	38.4	73.4	49	76.1	69	**121**	**190**
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	LTP-47-A-20130701 7/1/2013 0-2' mg/kg Fill-Sand	LTP-47-B-20130701 7/1/2013 5-7' mg/kg Fill-Sand/Clay	FD-11-20130701 (LTP-48-A) 7/1/2013 0.5-2.5' mg/kg Fill-Sand	LTP-48-A-20130701 7/1/2013 0.5-2.5' mg/kg Fill-Sand	LTP-48-B-20130701 7/1/2013 3-4.5' mg/kg Fill-Sand	LTP-49-A-20130701 7/1/2013 0-2' mg/kg Fill-Sand	LTP-50-A-2013-06-30 6/30/2013 1-3' mg/kg Fill-Sand	LTP-51-A-20130701 7/1/2013 0-1' mg/kg Fill-Sand	LTP-51-B-20130701 7/1/2013 4-5' mg/kg Fill-Sand	LTP-52-A-20130628 6/28/2013 0-2' mg/kg Fill-Sand	LTP-52-B-20130628 6/28/2013 4-5' mg/kg Fill-Clay	LTP-53-A-20130628 6/28/2013 0-2' mg/kg Fill-Sand	LTP-53-B-20130628 6/28/2013 8-10' mg/kg Clay	LTP-54-A-20130628 6/28/2013 0-2' mg/kg Fill-Sand	LTP-54-B-20130628 6/28/2013 6-8' mg/kg Sand	LTP-55-A-20130628 6/28/2013 6-8' mg/kg Clay	LTP-55-B-20130628 6/28/2013 0-2' mg/kg Fill-Sand
	Unrestricted Use Objectives	Restricted Commercial																			
VOCs																					
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	0.013	ND	ND	ND	ND	ND	0.01 J	ND	0.032	ND	ND	ND	ND	0.011	ND	0.0027 J
Acetone	0.05	500		ND	0.044	ND	ND J	ND	ND	0.0027 J	ND	0.033 J	ND	**0.083**	ND	0.0045 J	ND	ND	ND	ND	ND
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0072 J	ND	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																					
Acenaphthene	20	500		ND	ND	0.0544 J	ND	ND	ND	0.0591 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		0.0943 J	ND	0.71	0.0959 J	0.0793 J	ND	0.15 J	0.203 J	ND	ND	ND	ND	ND	ND	ND	ND	0.112 J	ND
Benzo(a)anthracene	1	5.6		0.398	0.0974 J	0.418 J	0.335 J	0.393	0.0508 J	0.334	0.203 J	0.114 J	0.109 J	0.0918 J	0.225	ND	0.0749 J	ND	0.24	0.0858 J
Benzo(a)pyrene	1	1		0.433 J	0.15 J	0.119 J	0.372 J	0.196	0.0608 J	0.152 J	0.22 J	0.156 J	0.129 J	0.125 J	0.264	ND	0.089 J	ND	0.233	0.0766 J
Benzo(b)fluoranthene	1	5.6		0.522 J	0.108 J	0.484 J	0.713 J	0.252	0.0588 J	0.175 J	0.319	0.122 J	0.119 J	0.0829 J	0.248	ND J	0.0794 J	ND	0.19 J	ND
Benzo(g,h,i)perylene	100	500		0.135 J	ND J	0.154 J	0.118 J	ND	ND J	ND	ND	0.121 J	ND J	ND	0.12 J	ND	ND	ND	0.176 J	ND
Benzo(k)fluoranthene	0.8	56		0.591 J	0.0911 J	0.437 J	**0.891 J**	0.194	0.0592 J	0.171 J	0.356	0.122 J	0.128 J	0.104 J	0.233	ND	0.0569 J	ND J	0.185 J	0.0616 J
Chrysene	1	56		0.422	0.114 J	0.453 J	0.325 J	0.314	0.0573 J	0.303	0.21 J	0.134 J	0.119 J	0.1 J	0.276	ND	0.0853 J	ND	0.238	0.0824 J
Dibenz(a,h)anthracene	0.33	0.56		ND J	ND J	ND J	0.0951 J	ND J	ND J	ND J	ND J	ND	ND	ND J	ND	0.0654 J	ND	ND	ND	0.0631 J	ND
Dibenzofuran	7	350		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		0.711	0.159 J	0.666 J	0.566 J	0.496	0.0692 J	0.739	0.338 J	0.194 J	0.183 J	0.192 J	0.48	ND J	0.113 J	ND	0.534	0.221
Fluorene	30	500		ND	ND	0.058 J	ND	ND	ND	0.0542 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0801 J	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND J	0.0997 J	0.15 J	0.16 J	0.0712 J	ND J	ND J	0.0751 J	0.112 J	ND J	0.0885 J	0.14 J	ND	ND	ND	0.166 J	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND J	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND
Phenanthrene	100	500		0.418	0.106 J	0.735 J	0.322 J	0.237	ND	0.553	0.204 J	0.146 J	0.133 J	0.123 J	0.247	ND	0.0672 J	ND	0.403	0.203 J
Pyrene	100	500		0.863	0.203 J	2.35 J	0.555 J	0.455	0.108 J	0.616	0.843 J	0.224 J	0.235	0.171 J	0.544	ND	0.143 J	ND	0.49	0.178 J
PCBs																					
Aroclor 1248	NE	NE		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.635	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND J	ND	ND	ND	0.225	ND	ND	ND	0.0389	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NE	NE		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND J	ND	ND	ND	**0.225**	ND	ND	ND	0.0389	ND	ND	ND	**0.635**	ND	ND	ND
Pesticides/Herbicides																					
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00982	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	0.00879	ND	ND	ND	ND	0.0233	ND	ND	ND	0.0222	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																					
Arsenic	13	16		5.22	5.08	6.09 J	4.08 J	5.63	6.43	5.09	4.86 J	4.43	3.35	6.54	5.06	4.95	4.81	4.23	4.22	3.22
Barium	350	400		47.3	85.6	130 J	80.3	96.9	72.5	61.7	76.9 J	91.3	65.8	91.8	87	145	68.6	89.7	71.6	92.5
Beryllium	7.2	590		ND	0.152	ND	ND	ND	ND	ND	ND	ND	ND	0.193	ND	ND	ND	0.278	ND	0.126
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Trivalent	30	1,500		21.8	29.5	**214**	**650 J**	**166**	20.3	**41.9**	**342**	19.3	**135**	**45.8**	**145**	23.1	**62.7**	17.7	**376**	26.2
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.34**	ND	ND	ND	ND	ND	0.851	ND
Chromium, Total	NE	NE		21.8 J	29.5 J	214 J	650 J	166 J	20.3 J	41.9	342 J	19.3 J	141	45.8	145	23.1	62.7	17.7	377	26.2
Copper	50	270		16.3	17.7	25.8	31.1 J	26	22.3	22	25.1	6.83	16.4	18.2	22.7	25.4	24.1	17.1	26.3	22.7
Lead	63	1,000		18	17.7	52.8 J	**143 J**	**108**	**134**	**140**	28.9 J	14	19	27.2	36.3	10.2	**81.9**	9.46	38.4	18.6
Manganese	1,600	10,000		346	159	834 J	529 J	915	757	568	455 J	119	338	280	545	1,040	569	149	664	223
Mercury	0.18	2.8		ND	ND	ND	ND J	0.154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	30	310		16.5	25.3	**36.6**	**60.5 J**	29.2	17.5	20.4	**42.5**	16	27.1	**38.2**	28.8	**44.2**	**41.1**	**31.1**	**45.7**	25
Selenium	3.9	1,500		1.42	2.59	3.22	ND	1.54	1.18	ND	2.18	2.85	ND	1.83	ND	ND	ND	ND	ND	ND
Zinc	109	10,000		90	85.4	**112**	**182 J**	**200**	**243**	**200**	88.9	68.4	61.9	95.9	73.9	55.3	**248**	85.8	73.2	68
Cyanide	27	27		ND J	ND J	ND J	ND J	ND J	ND J	ND	ND J	ND J	1.39	ND	ND	ND	ND	ND	ND	1.81

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units	FD-8-20130629 (LTP-56-B) 6/29/2013 8-10' mg/kg	LTP-56-A-20130629 6/29/2013 5-7' mg/kg	LTP-56-B-20130629 6/29/2013 8-10' mg/kg	LTP-57-A-20130702 7/2/2013 0-2' mg/kg	LTP-58 -A-20130624 6/24/2013 4-6' mg/kg	LTP-58 -B-20130624 6/24/2013 6-8' mg/kg	LTP-59-A-20130701 7/1/2013 3-5' mg/kg	LTP-59-B-20130701 7/1/2013 6-8' mg/kg	LTP-60-A-20130701 7/1/2013 0-2' mg/kg	LTP-60-B-20130701 7/1/2013 3-5' mg/kg	LTP-61-A-2013-06-30 6/30/2013 0.5-2' mg/kg	LTP-61-B-2013-06-30 6/30/2013 4-6' mg/kg	LTP-62 -A-20130624 6/24/2013 2-4' mg/kg	LTP-63-A-20130625 6/25/2013 1-3' mg/kg	LTP-63-B-20130625 6/25/2013 3-4' mg/kg	FD-1-20130625 (LTP-64-B) 6/25/2013 3-5' mg/kg	LTP-64-A-20130625 6/25/2013 5-7' mg/kg
	Unrestricted Use Objectives	Restricted Commercial	Sample Medium	Clay	Sand	Clay	Fill-Sand	Fill	Clay	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand/Clay	Fill-Sand	Fill-Sand/Clay	Fill-Sand	Fill	Fill	Fill-Clay	Clay
VOCs																				
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	0.12	500		ND	ND	ND	ND	ND	0.016	0.019	ND	ND	ND	0.0062 J	0.0021 J	ND	0.0048	0.0056	0.024	0.0026 J
Acetone	0.05	500		ND	0.011	0.0033 J	ND	ND	**0.056 J**	**0.052**	0.01	0.012	0.024	0.028 J	0.016	ND	0.022	0.03	**0.079**	0.023
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022 J	0.016	ND J	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																				
Acenaphthene	20	500		ND J	ND	ND	ND	ND	ND	0.121 J	ND	0.285 J	ND	ND	ND	ND	ND	0.058 J	0.0839 J	ND
Acenaphthylene	100	500		ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	ND	ND	0.158 J	ND	0.564	ND	ND	ND	ND	ND	0.137 J	0.104 J	ND
Benzo(a)anthracene	1	5.6		ND	ND	ND	0.229	0.18 J	ND	0.443	ND	**1.44**	ND	0.556	ND	0.065 J	ND	0.376	0.356	ND
Benzo(a)pyrene	1	1		ND	ND	ND	0.343 J	0.178 J	ND	0.5	ND	**1.23 J**	ND J	0.345	ND	0.07 J	ND	0.356	0.437 J	ND
Benzo(b)fluoranthene	1	5.6		ND	ND	ND	0.397 J	0.263 J	ND	0.433	ND	**1.52 J**	ND J	0.374	ND	0.0916 J	ND	0.377	0.417 J	ND
Benzo(g,h,i)perylene	100	500		ND	ND	ND	ND J	ND J	ND	0.261	ND	0.355 J	ND J	ND	ND	ND J	ND	0.138 J	0.249 J	ND
Benzo(k)fluoranthene	0.8	56		ND	ND	ND	0.391 J	0.298 J	ND	0.484	ND	**1.44 J**	ND J	0.33	ND	0.0875 J	ND	0.383	0.38	ND
Chrysene	1	56		ND	ND	ND	0.246	0.181 J	ND	0.449	ND	**1.46**	ND	0.482	ND	0.0722 J	0.0931 J	0.309	0.316	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND	ND	ND J	ND J	ND	0.145 J	ND	ND J	ND J	0.0489 J	ND J	ND J	ND	ND	0.0697 J	ND
Dibenzofuran	7	350		ND J	ND	ND	ND	ND	ND	ND	ND	0.137 J	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100	500		ND	ND	ND	0.415	0.269	0.0857 J	0.45	ND	3.45	ND	0.597	ND	0.111 J	ND	0.557	0.373	ND
Fluorene	30	500		ND J	ND	ND	ND	ND	ND	0.0911 J	ND	0.308 J	ND	ND	ND	ND	ND	0.0742 J	0.0661 J	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	**0.782**	ND	ND	0.113 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		ND	ND	ND	0.0902 J	ND J	ND	0.287	ND	0.46 J	ND J	0.0825 J	ND J	ND J	ND	0.161 J	0.251 J	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	ND	0.0755 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND	ND	ND J	ND	ND	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		ND	ND	ND	0.273	0.14 J	ND	0.603	ND	3.01	ND	0.173 J	ND	0.0753 J	ND	0.489	0.421 J	ND
Pyrene	100	500		ND	ND	ND	0.582	0.41	0.0773 J	0.529	ND	3.54	ND	0.579	ND	0.117 J	ND	0.513	0.417	ND
PCBs																				
Aroclor 1248	NE	NE		ND	ND	ND	0.779	ND	ND J	ND	ND	0.163	ND	0.296	ND	ND	ND	ND	ND	ND
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	0.108	ND	ND
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	0.1	1		ND	ND	ND	**0.779**	ND	ND	ND	ND	**0.163**	ND	**0.296**	ND	ND	ND	**0.108**	ND	ND
Pesticides/Herbicides																				
2,4,5-TP (Silvex)	3.8	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	**0.288**	ND	ND	ND	ND	0.00841	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																				
Arsenic	13	16		5.64	2.7	6.6	7.48	4.39	3.47	5.62	4.32	5.02	7.21	4.16	4.73	3.41	6.15	2.52	5.89 J	1.5
Barium	350	400		79.4 J	35.7	**393 J**	78.9	50.9	123	79.8	77.8	113	91.5	102	77.7	77.1	97.4	93	118	102
Beryllium	7.2	590		ND	ND	ND	ND	ND	0.235	ND	0.187	ND	0.512	ND	0.308	ND	ND	ND	0.358 J	0.167
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	ND	ND	ND
Chromium, Trivalent	30	1,500		23.8	8.86	24	23.5	**53**	**33.5**	**34.1**	18	**57.8**	19.1	**31.2**	15.4	15.1	**32.9**	**646**	**136**	18.6
Chromium, Hexavalent	1	400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	NE	NE		23.8	8.86	24	23.5	53	33.5	34.1 J	18 J	57.8 J	19.1 J	31.2	15.4	15.1	32.9	646	136	18.6
Copper	50	270		28.7	13.8	24.1	38	25.3	34.8	16.8	18.7	24	18.9	18.1	10.7	19.2	23.5	22.7	38	14.4
Lead	63	1,000		7.2	5.47	5.71	**86.9**	**66.4**	17.8	38.4	9.12	38.2	12.3	24.6	8.87	33.5	24	**92.5**	46.6	**65**
Manganese	1,600	10,000		673	362	676	354	324	218	238	260	547	430	573	131	629	492	590	182	141
Mercury	0.18	2.8		ND	ND	ND	ND	**0.346 J**	**0.538 J**	ND	ND	ND	ND	ND	ND	0.041 J	0.0954 J	**0.207 J**	**0.577 J**	0.0295 J
Nickel	30	310		**35.6**	16	**38**	**33.3**	**32.8**	**44**	24.1	27.4	29	25.8	26.8	22.5	19.3	**30.1**	**80.4**	**59**	24.8
Selenium	3.9	1,500		ND	ND	ND	ND	ND	2.7	1.99	2.93	2.09	**3.93**	ND	2.34	ND	ND	ND	2.03	ND
Zinc	109	10,000		59.1	39.3	61.7	102	**144**	**149**	**115**	83.4	**273**	92.6	**150**	70.6	**140**	92.3	**181**	**121**	**351**
Cyanide	27	27		ND	ND	ND	ND	ND	ND	ND	ND J	ND J	ND J	ND	ND	ND	ND	0.75	0.865	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 2
Soil Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	LTP-64-B-20130625 6/25/2013 3-5' mg/kg Fill-Clay	LTP-65-A-20130629 6/29/2013 0-2' mg/kg Fill	LTP-66-A-20130629 6/29/2013 5-7' mg/kg Sand	LTP-66-B-20130629 6/29/2013 7-9' mg/kg Clay	FD-12-20130701 (LTP-67-B) 7/1/2013 5-7' mg/kg Clay	LTP-67-A-20130701 7/1/2013 0-2' mg/kg Fill-Sand	LTP-67-B-20130701 7/1/2013 5-7' mg/kg Clay	FD-9-20130629 (LTP-68-A) 6/29/2013 1-3' mg/kg Fill-Sand	LTP-68-A-20130629 6/29/2013 1-3' mg/kg Fill-Sand	LTP-68-B-20130629 6/29/2013 6-8' mg/kg Silty Clay	LTP-69-A-20130629 6/29/2013 4-5' mg/kg Fill-Silt	LTP-69-B-20130629 6/29/2013 5-7' mg/kg Clay	LTP-70-A-20130629 6/29/2013 0-2' mg/kg Fill-Sand	LTP-70-B-20130629 6/29/2013 8-10' mg/kg Clay
	Unrestricted Use Objectives	Restricted Commercial																
VOCs																		
1,1-Dichloroethane	0.27	240		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
1,2-Dichlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	190		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
1,3-Dichlorobenzene	2.4	280		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
1,4-Dichlorobenzene	1.8	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
2-Butanone	0.12	500		0.026	ND	ND	0.0034 J	ND	ND	ND	ND	ND	ND	ND	0.0074 J	ND	0.0033 J	ND
Acetone	0.05	500		**0.077**	0.025	ND	ND	ND	ND	ND	0.035	ND	ND	ND	0.049 J	ND	0.016	0.0037 J
Benzene	0.06	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.1	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.25	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	390		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.05	500		0.034 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0043 J	ND	ND
o-Xylene	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p- & m- Xylenes	0.26	600		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND
Toluene	0.7	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	0.47	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.02	13		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	0.26	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs																		
Acenaphthene	20	500		ND	ND	ND	ND J	ND	0.0963 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100	500		ND	ND	ND	ND J	ND	0.0928 J	ND	ND	ND	ND	ND	0.0952 J	ND	ND	ND
Anthracene	100	500		ND	ND	ND	ND	ND	0.712	ND	ND	ND	ND	ND	0.133 J	ND	ND	ND
Benzo(a)anthracene	1	5.6		0.138 J	0.076 J	ND	ND	ND J	0.716 J	ND	ND J	0.194 J	ND	0.425	ND	ND	ND	ND
Benzo(a)pyrene	1	1		0.143 J	ND J	ND	ND	ND J	0.688 J	ND J	0.149 J	0.187 J	ND	0.438 J	ND	ND	ND	ND
Benzo(b)fluoranthene	1	5.6		0.108 J	ND J	ND	ND	ND J	0.943 J	ND J	0.189 J	0.177 J	ND	0.583 J	ND	ND	ND	ND
Benzo(g,h,i)perylene	100	500		ND	ND J	ND	ND	ND J	0.198 J	ND J	ND J	0.116 J	ND	ND J	ND	ND	ND	ND
Benzo(k)fluoranthene	0.8	56		0.138 J	ND J	ND	ND	ND J	**0.953 J**	ND J	0.15 J	0.136 J	ND	0.568 J	ND	ND	ND	ND
Chrysene	1	56		0.127 J	0.0873 J	ND	ND	ND J	0.746 J	ND	0.119 J	0.155 J	ND	0.445	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.33	0.56		ND	ND J	ND J	ND	ND J	0.0982 J	ND J	ND J	0.0623 J	ND	ND J	ND	ND	ND J	ND
Dibenzofuran	7	350		ND	ND	ND	ND J	ND	0.0902 J	ND	ND	ND	ND	0.0675 J	ND	ND	ND	ND
Fluoranthene	100	500		0.201 J	0.179 J	ND	ND	ND J	0.856	ND	ND J	0.244 J	ND	0.538	ND	ND	0.086 J	ND
Fluorene	30	500		ND	ND	ND	ND J	ND	0.1 J	ND	ND	ND	ND	0.058 J	ND	ND	ND	ND
Hexachlorobenzene	0.33	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	0.5	5.6		0.0897 J	ND J	ND J	ND	ND J	0.2 J	ND J	ND J	0.105 J	ND	0.0802 J	ND	ND	ND J	ND
Naphthalene	12	500		ND	ND	ND	ND	ND	0.0944 J	ND	ND	ND	ND	0.0869 J	ND	ND	ND	ND
Pentachlorophenol	0.8	6.7		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100	500		0.147 J	0.125 J	ND	ND	ND J	0.717	ND	0.117 J	0.135 J	ND	0.481	ND	ND	ND	ND
Pyrene	100	500		0.15 J	0.145 J	ND	ND	ND J	1.67 J	ND	0.233	0.237	ND	0.808	ND	0.0762 J	ND	ND
PCBs																		
Aroclor 1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	0.0743 J	ND J	ND	ND	ND	0.324	ND	
Aroclor 1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PCBs	0.1	1		ND	ND	ND	ND	ND	ND	ND	0.0743 J	ND J	ND	ND	ND	**0.324**	ND	
Pesticides/Herbicides																		
2,4,5-TP (Silvex)	3.8	500		ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	0.0033	92		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	62		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.0033	47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.02	3.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.036	3		ND	ND	ND	ND	ND	ND	ND	0.0245 J	0.0144 J	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.1	9.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																		
Arsenic	13	16		3.91 J	ND	2.52	5.09	2.69 J	11.3	3.23	4.11	4.47	3.43	**13.2**	2.29	4.21	5.35	
Barium	350	400		130	81.5	56.3	91.2	54.5	98.6	62.3	80.9	80.2	48.3	59.1	35.7	140	92.8	
Beryllium	7.2	590		0.529 J	ND	ND	0.254	ND	ND	ND	ND	ND	ND	ND	ND	0.277	ND	
Cadmium	2.5	9.3		ND	ND	ND	ND	ND	0.433	ND	0.645	ND	ND	1.24	ND	ND	ND	
Chromium, Trivalent	30	1,500		**92**	**2,590**	14.3	19.9	11.4 J	**520**	14.1	**60.6 J**	**218 J**	12.3	**906**	8.47	24.5	22.2	
Chromium, Hexavalent	1	400		ND	**202**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium, Total	NE	NE		92	2,790	14.3	19.9	11.4 J	520 J	14.1 J	60.6 J	218 J	12.3	906	8.47	24.5	22.2	
Copper	50	270		27.8	17.4	13.4	27.2	11.3 J	**52.2**	14.8	25.2	24.8	16.6	**114**	5.37	17.6	26.2	
Lead	63	1,000		35.4	14.8	6.2	12.6	5.86 J	**140**	7.22	**74.3**	**70**	8.56	**340**	3.89	21.8	6.63	
Manganese	1,600	10,000		180	549	189	294	135 J	563	184	615	475	216	560	322	550	671	
Mercury	0.18	2.8		**0.335 J**	ND	ND	ND	ND J	ND	ND	**0.615 J**	ND J	ND	ND	ND	ND	ND	
Nickel	30	310		**44**	**174**	23.8	**35.8**	15.3 J	**41.2**	20.2	24.8	**31.7**	20.1	**62.1**	12.3	27.7	**35.9**	
Selenium	3.9	1,500		1.74	ND	1.3	1.9	1.64	1.52	1.73	ND	1.34	ND	ND	ND	ND	ND	
Zinc	109	10,000		101	17.8	62	**181**	51.2 J	**240**	63.7	**315**	**243**	89.4	**465**	39.4	73.6	56.8	
Cyanide	27	27		ND	ND	ND	ND	ND	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Commercial Objectives

Table 3
Groundwater Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	Groundwater Quality Standards Part 703	Well Location Sample Date Sample Depth Units	LMW-1-20130702 7/2/2013 7' µg/L	LMW-2-20130702 7/2/2013 6.25' µg/L	LMW-3-20130702 7/2/2013 6.5' µg/L	LMW-4-20130702 7/2/2013 5.75' µg/L	LMW-5-20130702 7/2/2013 7' µg/L	LMW-6-20130702 7/2/2013 6' µg/L	LMW-7-20130702 7/2/2013 5.5' µg/L	FD-1-20130702 (LMW-8) 7/2/2013 5' µg/L	LMW-8-20130702 7/2/2013 5' µg/L
VOCs											
1,1-Dichloroethane	5		0.31 J	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5		1.4	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50		9.1 J	ND	1.4 J	ND	ND	ND	ND	4.3	4.7
Acetone	50		ND	ND	ND	ND	ND	12	ND	39	35
Benzene	1		0.33 J	ND	0.45 J	ND	ND	ND	ND	ND	ND
Chloroform	7		ND	ND	ND	ND	ND	0.41 J	ND	ND	ND
cis-1,2-Dichloroethylene	5		**59**	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	10		0.43 J	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	5		ND	ND	ND	ND	ND	ND	ND	0.4 J	0.5
Toluene	5		ND	ND	0.56	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5		2	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	5		**19**	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2		**13**	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs											
Anthracene	50		ND	ND	ND	ND	ND	ND	ND	0.0632	0.0632
Benzo(k)fluoranthene	0.002		ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	**0.0526 J**
Fluoranthene	50		ND	ND	ND	ND	0.116	ND	0.0778	0.168 J	0.179
Fluorene	50		ND	ND	ND	ND J	ND	0.0947	ND	0.0632 J	0.0737
Naphthalene	10		ND	ND	ND	ND	0.0737	0.0737	ND J	0.116 J	0.126 J
Phenanthrene	50		0.0737	0.281	0.137	0.556	0.474	0.989	0.0667	1.24	1.31
Pyrene	50		ND	ND	ND	ND	0.221	ND	0.2	0.116	0.126
Pesticides/Herbicides											
beta-BHC	0.04		ND J	ND	ND	ND	ND	ND J	0.00866 J	ND	ND J
Metals (mg/L)											
Arsenic	25		ND	ND	ND	ND	ND	6	ND	ND	ND
Barium	1,000		43	47	29	37	21	ND	41	148	148
Chromium, Trivalent	NE		ND	ND	ND	ND	30	66	11	ND J	110 J
Chromium, Hexavalent	50		ND	ND	ND	ND	**1,230**	**818**	**910**	**1,220**	**1,120**
Chromium, Total	50		ND	ND	ND	ND	**1,260**	**884**	**921**	**1,220**	**1,230**
Manganese	300		**1,140**	**504**	**2,730**	**1,330**	ND	ND	ND	ND	ND
Nickel	100		ND	ND	10	5	65	47	48	63	63
Selenium	10		ND	ND	**19**	**10**	ND	ND	ND	ND	ND
Zinc	2,000		35	ND	353	ND	ND	ND	ND	ND	ND
Cyanide	200		10	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Groundwater Quality Standards Part 703

Table 4
Soil Gas Analytical Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No.: 140091401

Parameters	NYSDOH Upper Fence	Sample ID Sample Date Units	AMBIENT-1-20130701 7/1/2013 µg/m^3	LSV-2-20130701 7/1/2013 µg/m^3	LSV-5-20130701 7/1/2013 µg/m^3	FD-2-20130702 (LSV-9) 7/2/2013 µg/m^3	LSV-9-20130702 7/2/2013 µg/m^3
VOCs							
1,1,1-Trichloroethane	2.5		ND	**3.7**	**3.4**	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5		0.94	ND	ND	ND	ND
1,1-Dichloroethane	0.4		ND	**2.2**	**2**	ND	ND
1,2,4-Trimethylbenzene	9.8		6	5.6	5.3	ND	ND
1,3,5-Trimethylbenzene	3.9		2.6	2.5	2.4	ND	ND
1,3-Dichlorobenzene	0.5		**12**	**15**	**14**	ND	ND
2-Butanone	16		**21**	5.1	4.1	ND	ND
2-Hexanone	NE		1.7 J	ND J	ND J	ND J	ND J
4-Methyl-2-pentanone	1.9		**3**	ND	ND	ND	ND
Acetone	115		37	37	35	23	27
Benzene	13		7.6	**54**	**48**	**34**	**32**
Carbon disulfide	NE		15	41	36	29	26
Chlorobenzene	0.4		**1.3**	ND	ND	ND	ND
Chloroform	1.2		**4.2**	**52**	**47**	**31**	**29**
Chloromethane	4.2		ND J	2.6	2.3	ND	ND
cis-1,2-Dichloroethylene	0.4		ND	**4.5**	**3.6**	**7.9**	ND
Cyclohexane	6.3		2.7	**59**	**51**	**34**	**32**
Dichlorodifluoromethane	10		3.6	6.5	6.1	ND	ND
Ethyl Benzene	6.4		3.9	**8.9**	**8**	ND	ND
Isopropanol	NE		9.3 J	93 J	82 J	53 J	42 J
Methylene chloride	16		3.3	13	12	**16**	14
n-Heptane	18		3.4	**130**	**110**	**76**	**69**
n-Hexane	14		4.9	**100**	**88**	**60**	**55**
o-Xylene	7.1		6.4	**10**	**9.1**	ND	ND
p- & m- Xylenes	1		16	29	26	ND	15
p-Ethyltoluene	NE		4.4	ND	ND	ND	ND
Tetrachloroethylene (PCE)	2.5		**23**	**170**	**93**	**1,300**	**1,100**
Tetrahydrofuran	0.8		**1.9**	ND	ND	ND	ND
Toluene	57		17	**100**	**96**	**59**	56
trans-1,2-Dichloroethylene	NE		0.59	6.4	5.6	ND	ND
Trichloroethylene (TCE)	0.5		**2.6**	**450**	**390**	**400**	**360**
Trichlorofluoromethane	12		6.5	**33**	**32**	**24**	**20**

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

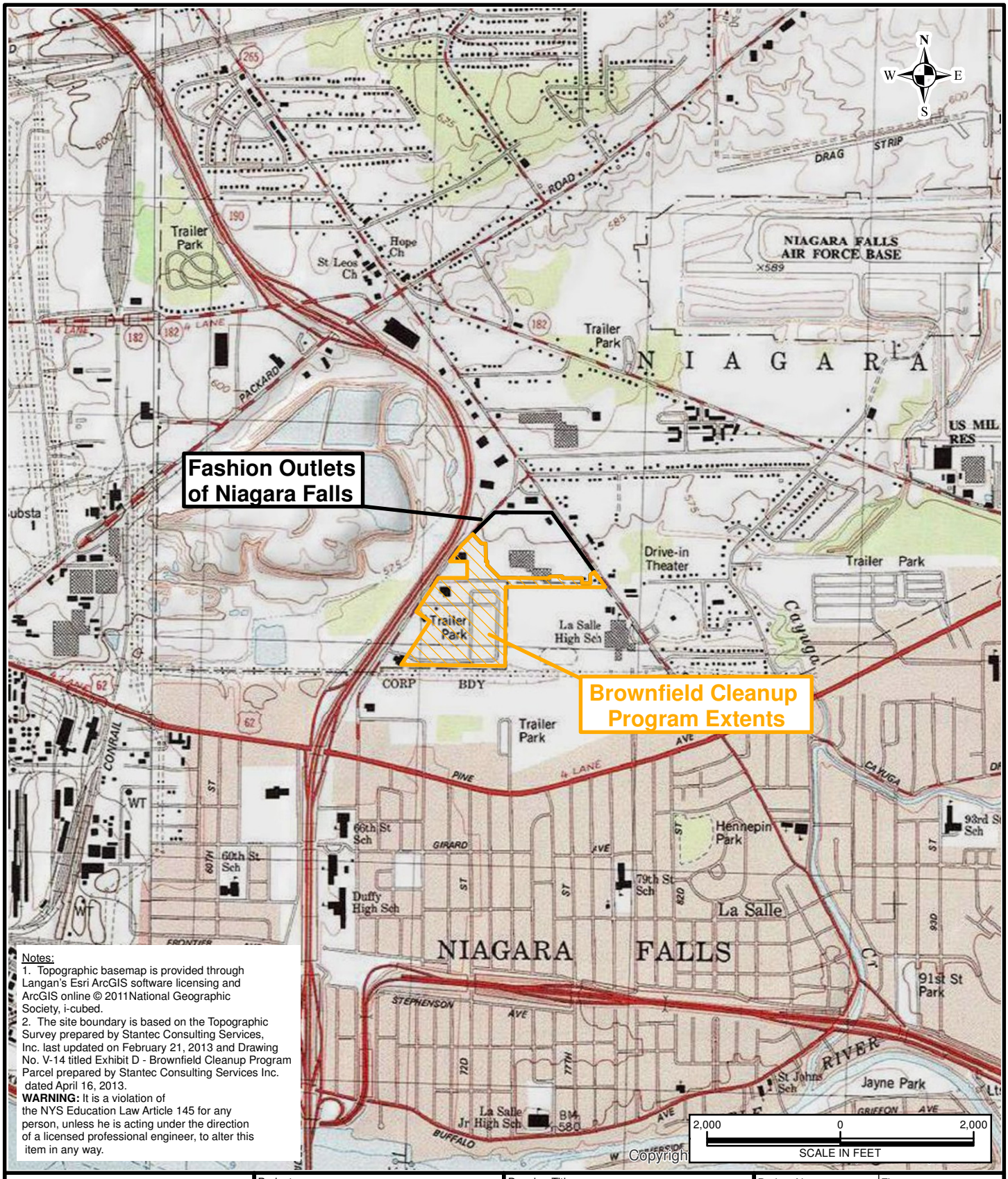
Indicates exceedance of the NYSDOH Upper Fence criteria

Table 5
Soil Chromium TCLP Results
1705 Factory Outlet Boulevard
Niagara, New York
Langan Project No. 140091401

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		RCRA Hazardous Waste Criteria (mg/L)	LSB-21-B-20130626 6/26/2013 4-6' mg/kg	LSB-22-A-20130626 6/26/2013 2-4' mg/kg	LSB-23-A-20130626 6/26/2013 2-4' mg/kg	LSB-23-S-20130702 7/2/2013 3-4' mg/kg	LSB-31-A-20130627 6/27/2013 0-2' mg/kg	LSB-32-A-20130626 6/26/2013 3-5' mg/kg	LSB-42-A-20130626 6/26/2013 3-5' mg/kg	LSB-55-A-20130629 6/29/2013 0-2' mg/kg	LSB-55-B-20130629 6/29/2013 2-4' mg/kg	LTP-11-A-20130627 6/27/2013 1-3' mg/kg	LTP-12-A-20130627 6/27/2013 0-2' mg/kg	LTP-30-A-20130626 6/26/2013 1-3' mg/kg	LTP-55-A-20130628 6/28/2013 6-8' mg/kg
	Unrestricted Use (mg/kg)	Restricted Commercial (mg/kg)														
Sample Medium				Fill-Silty Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Fill-Sand	Sand	Fill-Sand	Fill-Sand	Clay
Metals (mg/kg)																
Chromium, Trivalent	30	1,500	--	**139**	**1,940**	**1,680**	**5,930**	**2,010**	**2,860**	**43**	**324**	**3,460**	**3,540**	**35.5**	**6,560**	**376**
Chromium, Hexavalent	1	400	--	ND	**44.4**	**8.88**	**506**	**22.6 J**	**3.04**	ND	ND	**275**	ND	ND	ND	0.851
Chromium, Total	--	--	--	139	1,980	1,690	6,440	2,030	2,860	43	324	3,730	3,540	35.5	6560	377
TCLP Results (mg/L)																
Chromium, TCLP	--	--	5	0.0583	0.77	**6.79**	**8.85**	1.13	0.159	ND<0.0050	0.0205	4.73	0.853	0.0171	0.405	0.0234

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Part 375 Unrestricted Use Objectives
Indicates exceedance of the Part 375 Restricted Commercial Objectives
Indicates exceedance of the RCRA Hazardous Waste Criteria



Notes:
1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011National Geographic Society, i-cubed.
2. The site boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK
Drawing Title	SITE LOCATION MAP
Project No.	140091401
Figure	1
Date	4/4/2013
Scale	1"= 2000'
Drawn By	amf
Last Revised	8/2/2013

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 1 - Site Location Map.mxd

Legend

Proposed Brownfields Cleanup Program Site Extents

A Existing Land Use

A Street Name

Notes:
1. Aerial basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source of aerial imagery is US NY Buffalo from 5 April 2011.
2. Land use data was obtained from the Zoning Map of the Town of Niagara dated December 2002 and the Schedule B Official Zoning Map for the City of Niagara Falls Ver. 11.12.15.
3. Adjacent street names are identified as provided by the Niagara County NY On-Line Mapping System.
4. The BCP boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013.
5. The zipcode for the site and all adjacent properties is 14304.

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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27995400

Project
FONF Expansion/ Sabre Park BCP
TOWN OF NIAGARA
NIAGARA COUNTY NEW YORK

Drawing Title
EXISTING CONDITIONS PLAN

Project No.	140091401
Date	4/4/2013
Scale	1" = 200'
Drawn By	amf
Last Revised	8/2/2013
Exhibit	2

PROJECT No. 140091401

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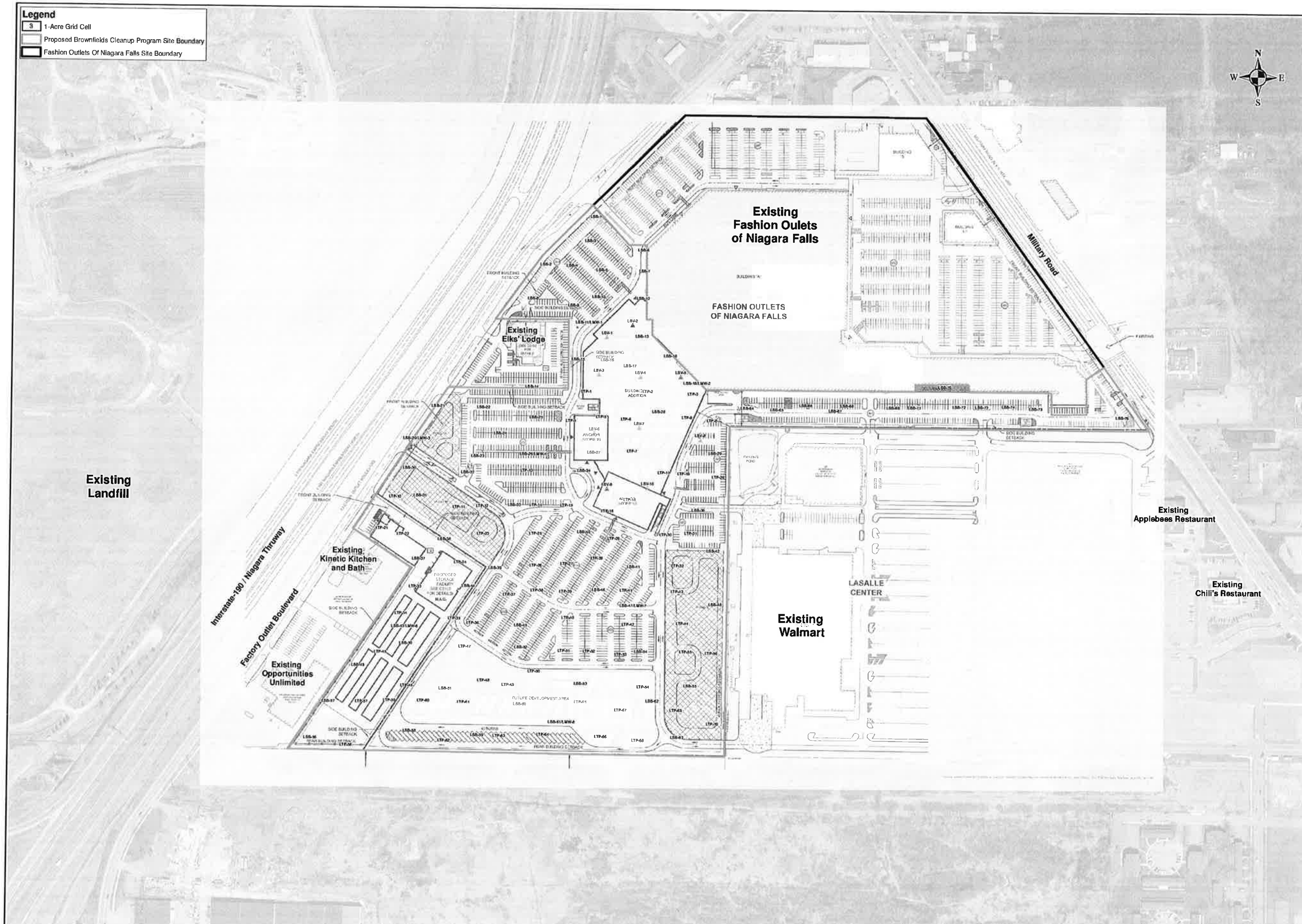

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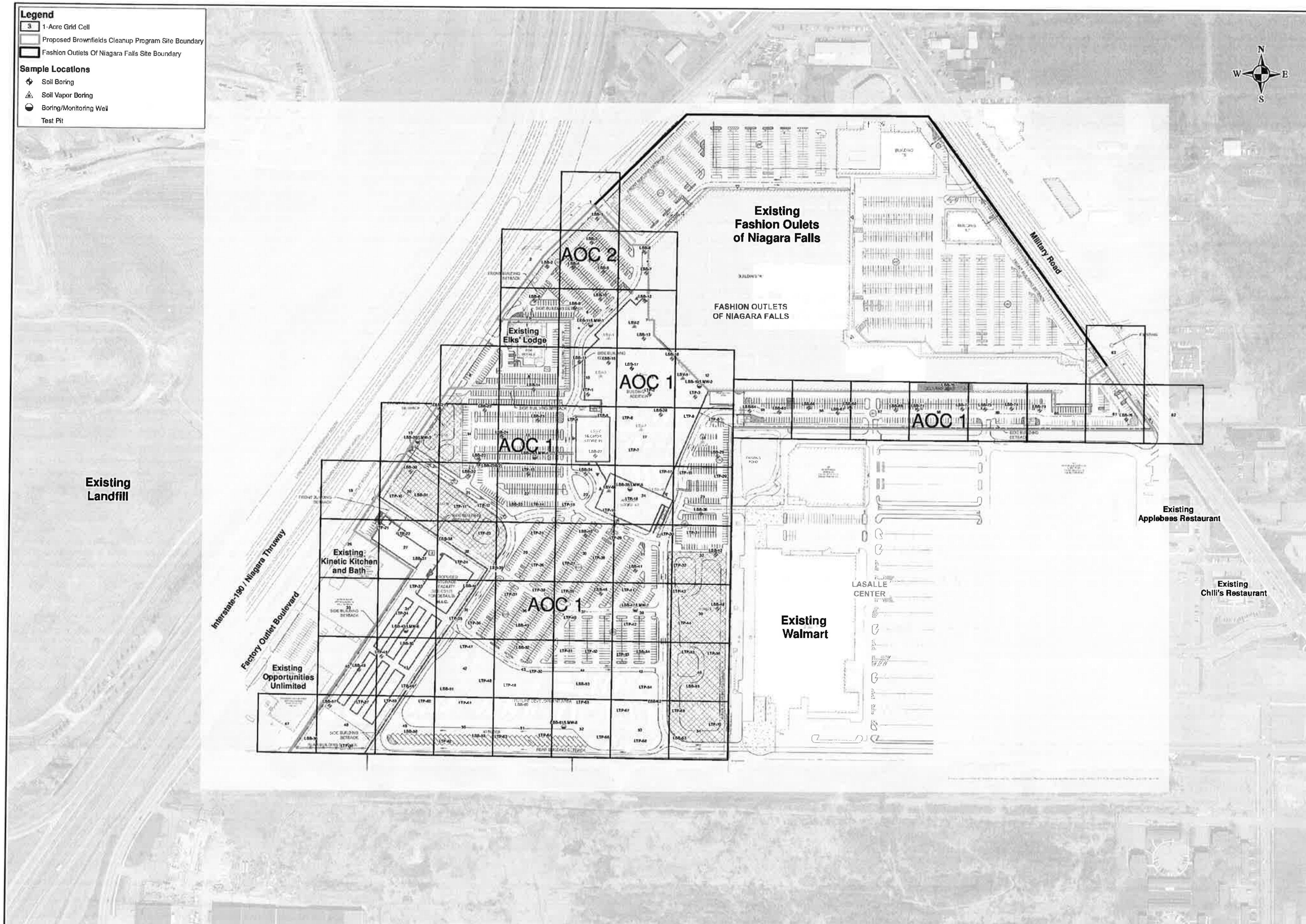
Project: FONF Expansion/ Sabre Park BCP
TOWN OF NIAGARA
NIAGARA COUNTY — NEW YORK

Drawing Title: PROPOSED DEVELOPMENT PLAN

Project No	140091401
Date	8/19/13
Scale	1"= 100'
Drawn By	amf
Last Revised	8/2/2013
Figure	3



Notes:
1. Aerial basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source of aerial imagery is US NY Buffalo from 18 April 2011.
2. The site boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013
3. The following proposed soil borings were converted to test pits due to field conditions: LSB-31, LSB-33, LSB-37, LSB-38, LSB-36, LSB-44, LSB-45, LSB-50, LSB-51, LSB-52, LSB-53, LSB-54, LSB-55, LSB-56, LSB-58, LSB-59, LSB-60, LSB 62, LSB-63
4. The following proposed test pits were converted to soil borings due to field conditions: LTP-1, LTP-2, LTP-3, LTP-13, LTP-45
5. The following proposed soil gas samples were not collected due to the presence of water in the probe: LSV-1, LSV-3, LSV-4, LSV 6, LSV-7, LSV 8, LSV-10
6. This plan should be reviewed as a color copy as the sample locations are color coordinated.
7. AOC-1 = Historic Site use associated with on-Site dumping of contaminated fill material.
8. AOC-2 = Historic Site use associated with the Walter Kozdranski Construction Company formerly located in grid cells 1 through 7.
WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

100 0 100
SCALE IN FEET

LANGAN	Project: FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK	Drawing Title: REMEDIAL INVESTIGATION SAMPLE LOCATION PLAN	Project No. 140093401 Date 4/11/2013 Scale 1" = 100' Drawn By amf Last Revised 8/2/2013	Figure 4

NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives

	Unrestricted Use Objectives (mg/kg)
VOCs	
Acetone	0.05
SVOCs	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	0.8
Chrysene	1
Dibenz(a,h)anthracene	0.33
Hexachlorobenzene	0.33
Indeno(1,2,3-c,d)pyrene	0.5
Pesticides/Herbicides	
4,4'-DDD	0.0033
4,4'-DDE	0.0033
4,4'-DDT	0.0033
alpha-BHC	0.02
beta-BHC	0.036
delta-BHC	0.04
gamma-BHC (Lindane)	0.1
PCBs	
Total PCBs	0.1
Metals	
Arsenic	13
Barium	350
Cadmium	2.5
Chromium, Trivalent	30
Chromium, Hexavalent	1
Copper	50
Lead	63
Manganese	1,600
Mercury	0.18
Nickel	30
Selenium	3.9
Zinc	109

Sample ID:	[not visible]	[not visible]
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	2-4'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	1,940	8.67
Chromium, Hexavalent	44.4	ND
Mercury	0.239 J	0.0156 J
Nickel	137	15.8
Zinc	128	42.2
PCBs		
Total PCBs	2.52	ND
Pesticides/Herbicides		
beta-BHC	0.0394	ND
SVOCs		
Benzo(a)anthracene	17.7	ND
Benzo(a)pyrene	18.9	ND
Benzo(b)fluoranthene	11.2	ND
Benzo(k)fluoranthene	13.5	ND
Chrysene	21.6	ND
Dibenz(a,h)anthracene	2.91 J	ND
Indeno(1,2,3-c,d)pyrene	6.13 J	ND

Sample ID:	LSB-26-A-20130625	LSB-26-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	4-6'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	224	26.9
Copper	94.1	21.6
Lead	75	9.38
Mercury	0.799 J	0.0117 J
Nickel	57.8	37.8
Zinc	138	59.1
PCBs		
Total PCBs	1.71	ND

Sample ID:	LSB-14-A-20130627	LSB-14-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	4-5.5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	873	10.4
Manganese	2,420	422
Nickel	54.7	22.7
Pesticides/Herbicides		
alpha-BHC	1.55	ND
beta-BHC	0.739	ND

Sample ID:	[not visible]	[not visible]
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-2'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	99.4	14.4
Chromium, Hexavalent	ND	2.02
Manganese	7,830	683
Nickel	43.1	32.9
Selenium	4.39	ND

Sample ID:	LSB-1-A-20130627	LSB-1-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-4'	5.5-7.5'
Units:	mg/kg	mg/kg
Metals		
Cadmium	ND	5.46
Copper	16.5 J	55.5 J
Lead	160	279
Zinc	197	203
PCBs		
Total PCBs	0.429	0.461

Sample ID:	SB-10-A-20130627	LSB-10-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1.5-4'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	145	12
Copper	138	32.6
Lead	11,900	9.89
Nickel	35.1	23.2
Zinc	233	95.7
SVOCs		
Benzo(k)fluoranthene	0.828 J	ND

Sample ID:	LSB-6-A-20130626	LSB-6-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	10-12'
Units:	mg/kg	mg/kg
Metals		
Mercury	0.463	0.00517
Zinc	817	34.7
SVOCs		
Benzo(b)fluoranthene	1.47 J	ND

Sample ID:	LSB-27-A-20130625	LSB-27-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	2-4'	14-16'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	698	11.8
Mercury	0.583	0.00619
Nickel	59	11.1
Zinc	73.2 J	160 J
PCBs		
Total PCBs	0.149	ND

Sample ID:	LTP-13-A-20130626	LTP-13-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	12-14'
Units:	mg/kg	mg/kg
Metals		
Zinc	70	254

Sample ID:	LSB-24-A-20130626	LSB-24-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	80.9	8.99

Sample ID:	LTP-14-A-20130627	LTP-14-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	28.4	298
Lead	18.1	85.9
Nickel	18.9	39.6
Zinc	72.4	122

Sample ID:	LTP-1-A-20130628
Sample Date:	6/28/2013
Sampling Depth:	1-3'
Units:	mg/kg
Metals	
Nickel	49
Zinc	195

Sample ID:	LSB-5-A-20130627	LSB-5-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-4'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	127	17.3
Nickel	35.8	24.2
Zinc	192	61.5
PCBs		
Total PCBs	0.641	ND
Pesticides/Herbicides		
alpha-BHC	0.113	ND
beta-BHC	0.139	ND
delta-BHC	0.12	ND
gamma-BHC (Lindane)	0.113	ND

Sample ID:	LSB-7-A-20130626	LSB-7-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	8-10'
Units:	mg/kg	mg/kg
Metals		
Zinc	122	187

Sample ID:	LSB-9-A-20130627	LSB-9-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	4-6'	8-10'
Units:	mg/kg	mg/kg
Metals		
Nickel	16.3	44.6

Sample ID:	LSB-12-A-20130626	LSB-12-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	2-4'	6-8'
Units:	mg/kg	mg/kg
Metals		
Copper	66	20.7
Nickel	37.8	35.8
Zinc	143	60.9

Sample ID:	LSB-15-A-20130627	LSB-15-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	5-7'
Units:	mg/kg	mg/kg
VOCs		
Acetone	0.069 J	ND

Sample ID:	LSB-3-A-20130627	LSB-3-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	6-8'
Units:	mg/kg	mg/kg
Metals		
Cadmium	5.22	ND
Chromium, Trivalent	38.9	25
Copper	83.1 J	19.5
Lead	124	8.3
Nickel	31.6	40.5
Zinc	119	65.2
PCBs		
Total PCBs	0.652	ND

Sample ID:	LTP-4-A-20130625	LTP-4-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-3'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	30	12.4

Sample ID:	LSB-16-A-20130627	LSB-16-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2.5-4.5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	108	125
Lead	1,260	101
Mercury	0.256	ND
Zinc	291	359
Pesticides/Herbicides		
beta-BHC	ND	0.0864

Sample ID:	LSB-2-A-20130627	LSB-2-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-4'	10-12'
Units:	mg/kg	mg/kg
Metals		
Arsenic	21.8	5.25

Sample ID:	LSB-17-A-20130627	LSB-17-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-4'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	95.1	308
Nickel	31.7	33.8
Zinc	152	103
Pesticides/Herbicides		
beta-BHC	0.0112	0.048
SVOCs		
Benzo(a)anthracene	1.27 J	ND
Benzo(k)fluoranthene	1.09 J	ND

Sample ID:	LSB-8-A-20130627	LSB-8-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1.5-3.5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium III	63.7	22.6
Nickel	41.5	35.9
Zinc	175	57.7
Pesticides/Herbicides		
4,4'-DDT	0.00661 D	ND

Sample ID:	LTP-6-A-20130625	LTP-6-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-2.5'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	310	13
Mercury	0.234	0.01
Nickel	57.8	18.2
Zinc	402 J	55.3 J

Sample ID:	LSB-34-A-20130626	LSB-34-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-4.5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	1,500	12.3
Chromium, Hexavalent	47.8	ND
Mercury	0.258 J	0.0158 J
Nickel	114	20.5

Sample ID:	LTP-7-A-20130625	LTP-7-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-3'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	15.4	40.6
Lead	83.8	22.7
Mercury	0.109	0.353
Zinc	162 J	72 J
VOCs		
Acetone	ND	0.059

Sample ID:	LTP-9-A-20130625	LTP-9-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-2.5'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	36.2	31.7
PCBs		
Total PCBs	0.334	ND

Sample ID:	LSB-35-A-20130625	LSB-35-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	2-4'	4-5.5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	4,730	14.6
Chromium, Hexavalent	87.3	ND
Manganese	6,970	727
Mercury	0.196 J	0.019 J
Nickel	254	19.7

Sample ID:	LSB-68-A-20130628	LSB-68-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	1-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Lead	173	7.49
Mercury	0.291	ND
Zinc	147	50.6

Sample ID:	LSB-67-A-20130628	LSB-67-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	1-3'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	114	7.32
Chromium, Hexavalent	ND	ND
Zinc	142	31.5

Sample ID:	LSB-66-A-20130628	LSB-66-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	1-3'	10-12'
Units:	mg/kg	mg/kg
Metals		
Zinc	60.4	209

Sample ID:	LTP-8-A-20130625	LTP-8-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	2-4'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	30.9	58
Mercury	0.199 J	0.0106 J

Sample ID:	LSB-69-A-20130627	LSB-69-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	179	26.3
Nickel	25.5	30.3
Zinc	159	211
Pesticides/Herbicides		
alpha-BHC	0.52	ND
beta-BHC	0.095	ND
SVOCs		
Benzo(a)pyrene	1.22 J	ND

Sample ID:	LSB-71-A-20130627	LSB-71-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-2.75'	4.75-5.8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	101	20.9
Zinc	386 J	99.5 J
PCBs		
Total PCBs	0.271 J	ND
Pesticides/Herbicides		
alpha-BHC	0.0301 J	ND
beta-BHC	0.34 J	ND

Sample ID:	LSB-70-A-20130627	LSB-70-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	0.42-1.25'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	3,690	10.5
Chromium, Hexavalent	486	ND
Nickel	233	16.6

Sample ID:	LSB-72-A-20130627	LSB-72-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	9-11'
Units:	mg/kg	mg/kg
Metals		
Zinc	57.4 J	174 J

Sample ID:	LSB-76-A-20130628	LSB-76-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	2-4'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	3,140	11.3
Copper	94.3	17.5
Lead	80.4	6.17
Nickel	2,440	20
Zinc	232	55.4

Sample ID:	LTP-17-A-20130625	LTP-17-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-3'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	548	10.6
Nickel	57.3	19.4

Sample ID:	LTP-19-A-20130625	LTP-19-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	3-5'	9-11'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	30.6	23.4
Mercury	0.477	0.0174
Nickel	32.7	36.7
Zinc	318 J	56.2 J

Sample ID:	LSB-20-A-20130624	LSB-20-B-20130624
Sample Date:	6/24/2013	6/24/2013
Sampling Depth:	2-4'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	30.4	6.42
Mercury	0.315 J	0.00955 J
Zinc	72.6	216

Sample ID:	LSB-23-A-20130626	LSB-23-B-20130626	LSB-23-S-20130702
Sample Date:	6/26/2013	6/26/2013	7/2/2013
Sampling Depth:	2-4'	6-8'	3-4'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	1,680	11.4	5,930
Chromium, Hexavalent	8.88	ND	506
Nickel	137	18.7	289
PCBs			
Total PCBs	0.503	ND	0.18
SVOCs			
Benzo(a)pyrene	1.03	ND	0.117 J
Benzo(k)fluoranthene	1.33	ND	0.149 J
Chrysene	1.25	ND	0.118 J

Sample ID:	LSB-32-A-20130626	LSB-32-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	2,860	12.1
Chromium, Hexavalent	3.04	ND
Manganese	2,760	312
Mercury	0.423 J	0.0139 J
Nickel	150	17.2
PCBs		
Total PCBs	0.441	ND

Sample ID:	LSB-21-A-20130626	LSB-21-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	2-4'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	94.1	139
Copper	146	56.4
Mercury	0.43 J	0.0537 J
Nickel	92.5	39.9
Zinc	137	90.1
PCBs		
Total PCBs	0.996	0.0602
SVOCs		
Benzo(a)anthracene	8.56 J	1.14
Benzo(a)pyrene	7.85 J	0.878
Benzo(b)fluoranthene	9.82	1.43
Benzo(k)fluoranthene	6.96 J	1.24
Chrysene	18.5	0.979 J
Indeno(1,2,3-c,d)pyrene	2.66 J	0.203

Sample ID:	LTP-25-A-20130627	LTP-25-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	3-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	437	62.6
Lead	91.6	25.1
Nickel	95.9	22.4
Zinc	309	67.4
VOCs		
Acetone	0.0097	0.053

Sample ID:	LSB-30-A-20130626
Sample Date:	6/26/2013
Sampling Depth:	4-6'
Units:	mg/kg
Metals	
Chromium, Trivalent	38.5

Sample ID:	LSB-33-A-20130627	LSB-33-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	0-2'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	141	41.1
VOCs		
Acetone	ND	0.065

Sample ID:	FD-3-20130627 (LTP-12-B)	LTP-12-A-20130627	LTP-12-B-20130627
Sample Date:	6/27/2013	6/27/2013	6/27/2013
Sampling Depth:	4-6'	0-2'	4-6'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	40.7 J	35.5	145 J
Lead	245	32.9	332
Nickel	29.8	14.2	32.9
Zinc	225	102	276
Pesticides/Herbicides			
4,4'-DDE	ND	0.00574	ND

Sample ID:	LTP-11-A-20130627	LTP-11-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-3'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	3,540	8.94
Nickel	178	17.3
VOCs		
Acetone	0.052	ND

Sample ID:	LSB-31-A-20130627	LSB-31-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	2,010	129
Chromium, Hexavalent	22.6 J	ND J
Nickel	249	41.8
SVOCs		
Benzo(k)fluoranthene	1.02	0.278 J
VOCs		
Acetone	0.0039 J	0.072

Sample ID:	FD-5-20130628 (LTP-23-B)	LTP-23-A-20130628	LTP-23-B-20130628
Sample Date:	6/28/2013	6/28/2013	6/28/2013
Sampling Depth:	6.5-8.5'	4-6'	6.5-8.5'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	8 J	137 J	7.78
Nickel	14.4 J	45.3 J	14.1
SVOCs			
Benzo(a)anthracene	ND	1.26 J	ND
Benzo(a)pyrene	ND	1.33 J	ND
Benzo(b)fluoranthene	ND	1.14 J	ND
Benzo(k)fluoranthene	ND J	1.21 J	ND J
Chrysene	ND	1.15 J	ND

Sample ID:	LTP-10-A-20130627	LTP-10-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	1-2'	3-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	190	74.6
Chromium, Hexavalent	1.27	ND
Mercury	0.306	ND
Pesticides/Herbicides		
4,4'-DDT	0.00456	ND
VOCs		
Acetone	ND	0.057 J

Sample ID:	FD-13-20130702 (LTP-26-A)	LTP-26-A-20130702	LTP-26-B-20130702
Sample Date:	7/2/2013	7/2/2013	7/2/2013
Sampling Depth:	3-5'	3-5'	6-8'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	30	40.9	7.78

Sample ID:	LSB-38-A-20130628	LSB-38-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	895	73.4
Lead	53.9	117
Nickel	424	39.1
SVOCs		
Benzo(a)anthracene	0.121 J	1.73
Benzo(b)fluoranthene	0.13 J	1.58
Benzo(k)fluoranthene	0.117 J	1.44 J
Chrysene	0.148 J	2.62

Sample ID:	LTP-21-A-20130627	LTP-21-B-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	3-5'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	75.8	345
Copper	68.9	51
Lead	144	98
Mercury	0.272	ND
Nickel	39.9	184
Zinc	631	154
PCBs		
Total PCBs	0.51	ND
SVOCs		
Benzo(a)anthracene	1.5 J	0.628
Benzo(a)pyrene	1.22	0.551
Benzo(b)fluoranthene	1.21 J	0.429
Benzo(k)fluoranthene	1.39 J	0.472
Chrysene	1.21	0.512
VOCs		
Acetone	0.026	0.05

Sample ID:	FD-4-20130627 (LTP-22-A)	LTP-22-A-20130627
Sample Date:	6/27/2013	6/27/2013
Sampling Depth:	2-4'	2-4'
Units:	mg/kg	mg/kg
Metals		
Barium	104 J	477 J
Chromium, Trivalent	1,740 J	87.5 J
Lead	54 J	189 J
Nickel	170 J	32.7 J
Zinc	600 J	197 J
SVOCs		
Benzo(a)anthracene	0.195 J	1.3 J
Benzo(a)pyrene	0.18 J	1.21 J
Benzo(b)fluoranthene	0.227 J	1.22 J
Benzo(k)fluoranthene	0.242 J	1.6 J
Chrysene	0.182 J	1.12 J

Sample ID:	LTP-24-A-20130702	LTP-24-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	0-2'	3-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	246	26
Lead	92.9	16.4
Nickel	45.8	21.3
SVOCs		
Benzo(a)anthracene	1.21	ND
Benzo(a)pyrene	1.21	ND
Benzo(b)fluoranthene	1.46	ND
Benzo(k)fluoranthene	0.959	ND
Chrysene	1.16	ND
Indeno(1,2,3-c,d)pyrene	0.535	ND

Sample ID:	LSB-37-A-20130628	LSB-37-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	5-7'	8-10'
Units:	mg/kg	mg/kg
Metals		
Nickel	19.4	35.4

Sample ID:	LTP-38-A-20130702	LTP-38-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	2-4'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	95	13.8
Lead	63.5	6.8
Nickel	36.4	21
Zinc	148	55.5

Sample ID:	LTP-33-A-20130702	LTP-33-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	3-5'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	329	12.6
Lead	244	5.35
Nickel	73.9	19.5
Zinc	232	52.6
PCBs		
Total PCBs	0.103	ND
Pesticides/Herbicides		
beta-BHC	0.0663	ND
SVOCs		
Benzo(a)anthracene	25.3	0.184 J
Benzo(a)pyrene	23	0.188 J
Benzo(b)fluoranthene	21.3	0.162 J
Benzo(k)fluoranthene	17.1	0.203
Chrysene	20.9	0.167 J
Dibenz(a,h)anthracene	2.37	ND
Indeno(1,2,3-c,d)pyrene	12.6	0.0674 J

Sample ID:	LTP-37-A-20130702	LTP-37-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	2-4'	8-10'
Units:	mg/kg	mg/kg
Metals		
Copper	117	27.2
Lead	64.4	9.23
Nickel	20.3	39.3
Zinc	207	70.8
SVOCs		
Benzo(a)anthracene	3.13 J	ND J
Benzo(a)pyrene	2.74 J	ND J
Benzo(b)fluoranthene	1.91 J	ND J
Benzo(k)fluoranthene	2.3 J	ND J
Chrysene	2.61 J	ND J
Indeno(1,2,3-c,d)pyrene	0.579 J	ND J

Sample ID:	LTP-34-A-20130702	LTP-34-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	0-2'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	201	11.4
Nickel	42.9	17.1

Sample ID:	LSB-44-A-20130703	LSB-44-B-20130703
Sample Date:	7/3/2013	7/3/2013
Sampling Depth:	1-3'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	103	16
Lead	63.7	8.01

Sample ID:	LSB-43-A-20130625	LSB-43-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	2-4'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	2,370	20.8
Chromium, Hexavalent	11.1	ND
Nickel	154	24.4

Sample ID:	FD-15-20130702 (LTP-35-A)	LTP-35-A-20130702	LTP-35-B-20130702
Sample Date:	7/2/2013	7/2/2013	7/2/2013
Sampling Depth:	0-2'	0-2'	7-9'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	47.4 J	20.4	9.83 J
Lead	179 J	64.5	6.65 J
Nickel	42.4 J	21.3	16.4 J
Zinc	235 J	115	45.8 J

Sample ID:	LTP-36-A-20130702	LTP-36-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	0-2'	6-8'
Units:	mg/kg	mg/kg
Metals		
Lead	97.1	5.97
Zinc	173	42.6

Sample ID:	LSB-50-A-20130701	LSB-50-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	2-4'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	36.4	9.97

Sample ID:	LSB-49-A-20130702	LSB-49-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	1.5-3.5'	4-6'
Units:	mg/kg	mg/kg
Metals		
Lead	83.9	12
Zinc	168	49.5

Sample ID:	LTP-45-A-20130702	LTP-45-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	1.5-3.5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	209	23.3
Nickel	30.2	37.2
PCBs		
Total PCBs	1.07	0.339
Pesticides/Herbicides		
beta-BHC	0.268	ND

Sample ID:	LTP-46-A-20130702	LTP-46-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Lead	72.7	46.1
Mercury	0.252	ND
Nickel	37.1	29.6
Zinc	121	190
PCBs		
Total PCBs	8.31	23
Pesticides/Herbicides		
alpha-BHC	0.232	0.182 J
beta-BHC	1.46	0.491 J
delta-BHC	0.199	ND
gamma-BHC (Lindane)	0.161	0.062 J
SVOCs		
Hexachlorobenzene	2.92	4.98

Sample ID:	LTP-59-A-20130701	LTP-59-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	3-5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	34.1	18
Zinc	115	83.4
VOCs		
Acetone	0.052	0.01

Sample ID:	LTP-58 -A-20130624	LTP-58 -B-20130624
Sample Date:	6/24/2013	6/24/2013
Sampling Depth:	4-6'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	53	33.5
Lead	66.4	17.8
Mercury	0.346 J	0.538 J
Nickel	32.8	44
Zinc	144	149
VOCs		
Acetone	ND	0.056 J

Sample ID:	LSB-57-A-20130702	LSB-57-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	2-4'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	60	35.4
Lead	25	181
Zinc	181	464
SVOCs		
Benzo(a)anthracene	0.887	2.56
Benzo(a)pyrene	0.966 J	3.79 J
Benzo(b)fluoranthene	0.577 J	3.24 J
Benzo(k)fluoranthene	0.838 J	3.2 J
Chrysene	0.87	3.28
Indeno(1,2,3-c,d)pyrene	0.282 J	0.65 J

Sample ID:	LSB-56-A-20130703	LSB-56-B-20130703
Sample Date:	7/3/2013	7/3/2013
Sampling Depth:	0-2'	3-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	102	39.3
Zinc	238 J	51.2 J

Sample ID:	LSB-51-A-20130701	LSB-51-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	0.5-1.5'	1.5-3'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	74.1	70.2
Copper	38	98
Lead	49.9	201
Zinc	116	362
PCBs		
Total PCBs	0.151	ND

Sample ID:	LTP-61-A-2013-06-30	LTP-61-B-2013-06-30
Sample Date:	6/30/2013	6/30/2013
Sampling Depth:	0.5-2'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	31.2	15.4
Zinc	150	70.6
PCBs		
Total PCBs	0.296	ND

Sample ID:	FD-11-20130701 (LTP-48-A)	LTP-48-A-20130701	LTP-48-B-20130701
Sample Date:	7/1/2013	7/1/2013	7/1/2013
Sampling Depth:	0.5-2.5'	0.5-2.5'	3-4.5'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	214	650 J	166
Lead	52.8 J	143 J	108
Nickel	36.6	60.5 J	29.2
Zinc	112	182 J	200
SVOCs			
Benzo(k)fluoranthene	0.437 J	0.891 J	0.194

Sample ID:	LTP-57-A-20130702
Sample Date:	7/2/2013
Sampling Depth:	0-2'
Units:	mg/kg
Metals	
Lead	86.9
PCBs	
Total PCBs	0.779
Pesticides/Herbicides	
beta-BHC	0.288
SVOCs	
Hexachlorobenzene	0.782

Sample ID:	LTP-60-A-20130701	LTP-60-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	0-2'	3-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	57.8	19.1
Selenium	2.09	3.93
Zinc	273	92.6
PCBs		
Total PCBs	0.163	ND
SVOCs		
Benzo(a)anthracene	1.44	ND
Benzo(a)pyrene	1.23 J	ND J
Benzo(b)fluoranthene	1.52 J	ND J
Benzo(k)fluoranthene	1.44 J	ND J
Chrysene	1.46	ND

Sample ID:	LSB-58-A-20130703	LSB-58-B-20130703
Sample Date:	7/3/2013	7/3/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	165	129
Lead	116	86
Nickel	33.8	37.5
Zinc	294 J	147 J
Pesticides/Herbicides		
4,4'-DDT	0.00697	ND

Sample ID:	LSB-29-A-20130626	LSB-29-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	2-4'	10-12'
Units:	mg/kg	mg/kg
Metals		
Nickel	23.7	44.5

Sample ID:	LTP-18-A-20130626	LTP-18-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	1-3'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	1,560	23.7
Mercury	0.311	0.0131
Nickel	113	34.1

Sample ID:	LSB-36-A-20130626	LSB-36-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	1-3'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	4,320	65.5
Chromium, Hexavalent	150	ND
Mercury	3.86	0.02
Nickel	252	40

Sample ID:	LSB-40-A-20130626	LSB-40-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	4-6'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	4,980	14.6
Chromium, Hexavalent	55.1	ND
Mercury	0.759 J	0.0174 J
Nickel	739	18.2

Sample ID:	LTP-30-A-20130626	LTP-30-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	1-3'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	6,560	478
Mercury	0.131	0.614
Nickel	336	50.7
Zinc	39.7	118

Sample ID:	LTP-31-A-20130626	LTP-31-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	4-6'	7-9'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	144	10.5
Mercury	0.317	0.0161

Sample ID:	LTP-29-A-20130626	LTP-29-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	135	44.2
Copper	50.4	14.6
Lead	115	24.4
Mercury	0.325	0.349
Zinc	145	96.5
VOCs		
Acetone	ND	0.052

Sample ID:	FD-2-20130626 (LTP-32-A)	LTP-32-A-20130626	LTP-32-B-20130626
Sample Date:	6/26/2013	6/26/2013	6/26/2013
Sampling Depth:	1-2'	1-2'	4-6'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Arsenic	35.6 J	12 J	10.8
Chromium, Trivalent	199 J	85.9 J	26.4
Lead	74.8	71.3	51.1
Manganese	2,940 J	702 J	330
Mercury	0.234 J	0.67 J	0.192 J
Nickel	106 J	33.6 J	32.2
SVOCs			
Benzo(a)anthracene	14.3 J	1 J	0.0867 J
Benzo(a)pyrene	17.1 J	1.15 J	0.105 J
Benzo(b)fluoranthene	17.4 J	ND J	0.0912 J
Benzo(k)fluoranthene	13.1 J	0.985 J	0.0835 J
Chrysene	19.9 J	1.68 J	0.0812 J
Dibenz(a,h)anthracene	3.13 J	ND J	ND
Indeno(1,2,3-c,d)pyrene	5.7 J	ND J	0.0634 J

Sample ID:	LTP-28-A-20130626	LTP-28-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	4-6'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	266	10.5
Copper	54.6	13
Lead	137	5.24
Mercury	0.432	0.0373
Nickel	96.4	19.9
Zinc	294	40.7

Sample ID:	LSB-42-A-20130626	LSB-42-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	43	28
Nickel	24.7	43.8

Sample ID:	LSB-41-A-20130626	LSB-41-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	3-5'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	77.7	27.8
Lead	78.1	8.19
Mercury	0.279	0.0128
Nickel	21.5	43.2
Zinc	161	60.9

Sample ID:	LTP-43-A-20130626	LTP-43-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	1-3'	8-10'
Units:	mg/kg	mg/kg
Metals		
Lead	160	9.17
Mercury	0.333 B	0.0162 B
Nickel	23.3	40.1
Zinc	294	59.9

Sample ID:	LTP-41-A-20130626	LTP-41-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	1-3'	7-9'
Units:	mg/kg	mg/kg
Metals		
Lead	96.2	7.82
Zinc	321	103
Pesticides/Herbicides		
4,4'-DDE	0.00332	ND
4,4'-DDT	0.00614	ND

Sample ID:	LTP-39-A-20130702	LTP-39-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	0-2'	5-7'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	46.7	14.9
Zinc	116	61.6
SVOCs		
Benzo(a)anthracene	2.56	ND
Benzo(a)pyrene	2.15	ND
Benzo(b)fluoranthene	1.77	ND
Benzo(k)fluoranthene	0.916	ND
Chrysene	2.36	ND
Dibenz(a,h)anthracene	0.407	ND
Indeno(1,2,3-c,d)pyrene	0.875	ND

Sample ID:	LSB-46-A-20130626	LSB-46-B-20130626
Sample Date:	6/26/2013	6/26/2013
Sampling Depth:	2-4'	4-6'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	158	16.8
Mercury	0.185	0.0269
Nickel	49.9	26.3
Zinc	110	74.3
SVOCs		
Benzo(a)anthracene	1.9	ND
Benzo(a)pyrene	1.93	ND
Benzo(b)fluoranthene	2.15	ND
Benzo(k)fluoranthene	1.86	ND
Chrysene	2.47	ND
Dibenz(a,h)anthracene	0.442	ND
Indeno(1,2,3-c,d)pyrene	0.783	ND

Sample ID:	LSB-47-A-20130625	LSB-47-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	2-4'	10-12'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	4,360	31.8
Chromium, Hexavalent	28.9	ND
Mercury	0.314	0.0135
Nickel	242	40.3
SVOCs		
Benzo(a)anthracene	1.38	ND
Benzo(b)fluoranthene	2.1	ND
Benzo(k)fluoranthene	1.36	ND
Chrysene	3.1	ND

Sample ID:	FD-7-20130629 (LTP-44-B)	LTP-44-A-20130629	LTP-44-B-20130629
Sample Date:	6/29/2013	6/29/2013	6/29/2013
Sampling Depth:	8-10'	0-2'	8-10'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	9.12	248	15.2
Lead	5.03	155	7.24
Nickel	14.7	45.1	22
Pesticides/Herbicides			
4,4'-DDD	ND	0.00356	ND
4,4'-DDE	ND	0.00379	ND

Sample ID:	LTP-40-A-20130703	LTP-40-B-20130703
Sample Date:	7/3/2013	7/3/2013
Sampling Depth:	3-5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	66.4	13.5

Sample ID:	FD-8-20130629 (LTP-56-B)	LTP-56-A-20130629	LTP-56-B-20130629
Sample Date:	6/29/2013	6/29/2013	6/29/2013
Sampling Depth:	8-10'	5-7'	8-10'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Barium	79.4 J	35.7	393 J
Nickel	35.6	16	38

Sample ID:	FD-6-20130628 (LTP-42-A)	LTP-42-A-20130628	LTP-42-B-20130628
Sample Date:	6/28/2013	6/28/2013	6/28/2013
Sampling Depth:	0-2'	0-2'	8-10'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Lead	50.3	75.3	8.34
Nickel	21.8	23.8	59.4
SVOCs			
Hexachlorobenzene	ND J	0.36 J	ND

Sample ID:	LTP-55-A-20130628	LTP-55-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	6-8'	0-2'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	376	26.2
Nickel	45.7	25

Sample ID:	LTP-53-A-20130628	LTP-53-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	0-2'	8-10'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	145	23.1
Nickel	28.8	44.2

Sample ID:	LSB-54-A-20130628	LSB-54-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	25.3	168
Nickel	33.1	41
Zinc	59.4	119

Sample ID:	LSB-55-A-20130629	LSB-55-B-20130629
Sample Date:	6/29/2013	6/29/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	324	3,460
Chromium, Hexavalent	ND	275
Nickel	37.3	194
Zinc	111	57.4
PCBs		
Total PCBs	ND	0.128

Sample ID:	LTP-70-A-20130629	LTP-70-B-20130629
Sample Date:	6/29/2013	6/29/2013
Sampling Depth:	0-2'	8-10'
Units:	mg/kg	mg/kg
Metals		
Nickel	27.7	35.9
PCBs		
Total PCBs	0.324	ND

Sample ID:	LTP-51-A-20130701	LTP-51-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	0-1'	4-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	342	19.3
Nickel	42.5	16

Sample ID:	LTP-52-A-20130628	LTP-52-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	0-2'	4-5'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	135	45.8
Chromium, Hexavalent	6.34	ND
Nickel	27.1	38.2
VOCs		
Acetone	ND	0.083

Sample ID:	LTP-69-A-20130629	LTP-69-B-20130629
Sample Date:	6/29/2013	6/29/2013
Sampling Depth:	4-5'	5-7'
Units:	mg/kg	mg/kg
Metals		
Arsenic	13.2	2.29
Chromium III	906	8.47
Copper	114	5.37
Lead	340	3.89
Nickel	62.1	12.3
Zinc	465	39.4

Sample ID:	LTP-54-A-20130628	LTP-54-B-20130628
Sample Date:	6/28/2013	6/28/2013
Sampling Depth:	0-2'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	62.7	17.7
Lead	81.9	9.46
Nickel	41.1	31.1
Zinc	248	85.8
PCBs		
Total PCBs	0.635	ND

Sample ID:	LSB-45-A-20130702	LSB-45-B-20130702
Sample Date:	7/2/2013	7/2/2013
Sampling Depth:	1.1-3.3'	3.3-4.3'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	15.2	37.6
Lead	341	23.5
Nickel	18.3	32.6
Zinc	339	105
VOCs		
Acetone	ND	0.11

Sample ID:	FD-12-20130701 (LTP-67-B)	LTP-67-A-20130701	LTP-67-B-20130701
Sample Date:	7/1/2013	7/1/2013	7/1/2013
Sampling Depth:	5-7'	0-2'	5-7'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	11.4 J	520	14.1
Copper	11.3 J	52.2	14.8
Lead	5.86 J	140	7.22
Nickel	15.3 J	41.2	20.2
Zinc	51.2 J	240	63.7
SVOCs			
Benzo(k)fluoranthene	ND J	0.953 J	ND J

Sample ID:	LTP-50-A-2013-06-30
Sample Date:	6/30/2013
Sampling Depth:	1-3'
Units:	mg/kg
Metals	
Chromium, Trivalent	41.9
Lead	140
Zinc	200

Sample ID:	LTP-62 -A-20130624
Sample Date:	6/24/2013
Sampling Depth:	2-4'
Units:	mg/kg
Metals	
Zinc	140

Sample ID:	FD-1-20130625 (LTP-64-B)	LTP-64-A-20130625	LTP-64-B-20130625
Sample Date:	6/25/2013	6/25/2013	6/25/2013
Sampling Depth:	3-5'	5-7'	3-5'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	136	18.6	92
Lead	46.6	65	35.4
Mercury	0.577 J	0.0295 J	0.335 J
Nickel	59	24.8	44
Zinc	121	351	101
VOCs			
Acetone	0.079	0.023	0.077

Sample ID:	LSB-63-A-2013-06-30	LSB-63-B-2013-06-30
Sample Date:	6/30/2013	6/30/2013
Sampling Depth:	3-5'	5-7'
Units:	mg/kg	mg/kg
Metals		
Nickel	30	19.7

Sample ID:	FD-9-20130629 (LTP-68-A)	LTP-68-A-20130629	LTP-68-B-20130629
Sample Date:	6/29/2013	6/29/2013	6/29/2013
Sampling Depth:	1-3'	1-3'	6-8'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	60.6 J	218 J	12.3
Lead	74.3	70	8.56
Mercury	0.615 J	ND J	ND
Nickel	24.8	31.7	20.1
Zinc	315	243	89.4

Sample ID:	LSB-59-A-20130703	LSB-59-B-20130703
Sample Date:	7/3/2013	7/3/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Lead	181	41.7
Zinc	283 J	292 J

Sample ID:	FD-10-2013-06-30 (LSB-60-B)	LSB-60-A-2013-06-30	LSB-60-B-2013-06-30
Sample Date:	6/30/2013	6/30/2013	6/30/2013
Sampling Depth:	8-10'	1-3'	8-10'
Units:	mg/kg	mg/kg	mg/kg
Metals			
Chromium, Trivalent	9.43 J	165	8.69
Nickel	20.8	43.2	17

Sample ID:	LSB-53-A-20130629
Sample Date:	6/29/2013
Sampling Depth:	0.5-1'
Units:	mg/kg
Metals	
Chromium, Trivalent	2,090
Nickel	221

Sample ID:	LTP-49-A-20130701
Sample Date:	7/1/2013
Sampling Depth:	0-2'
Units:	mg/kg
Metals	
Lead	134
Zinc	243
PCBs	
Total PCBs	0.225

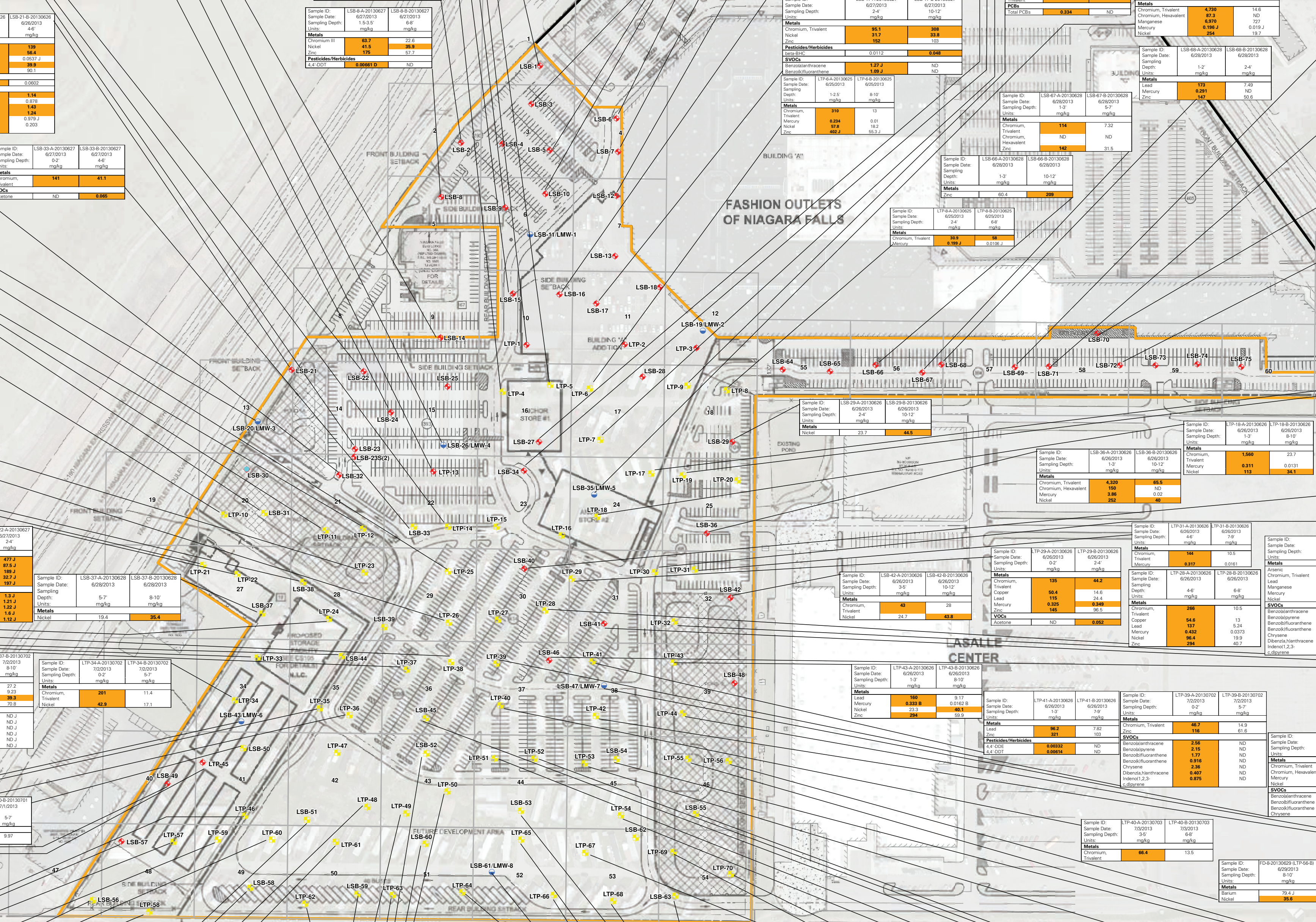
Sample ID:	LSB-61-A-20130625	LSB-61-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1.5-3.5'	6-8'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	4,330	57.2
Chromium, Hexavalent	364	ND
Manganese	1,630	207
Mercury	0.248 J	0.0275
Nickel	220	33.7
Zinc	24 J	128 J
PCBs		
Total PCBs	0.698	ND

Sample ID:	LTP-65-A-20130629
Sample Date:	6/29/2013
Sampling Depth:	0-2'
Units:	mg/kg
Metals	
Chromium, Trivalent	2,590
Chromium, Hexavalent	202
Nickel	174

Sample ID:	LTP-63-A-20130625	LTP-63-B-20130625
Sample Date:	6/25/2013	6/25/2013
Sampling Depth:	1-3'	3-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	32.9	646
Lead	24	92.5
Mercury	0.0954 J	0.207 J
Nickel	30.1	80.4
Zinc	92.3	181
PCBs		
Total PCBs	ND	0.108

Sample ID:	LSB-52-A-20130701	LSB-52-B-20130701
Sample Date:	7/1/2013	7/1/2013
Sampling Depth:	0-2'	2-4'
Units:	mg/kg	mg/kg
Metals		
Chromium, Trivalent	56.8	16.8
Lead	223	10.8
PCBs		
Total PCBs	0.122	ND
SVOCs		
Hexachlorobenzene	1.79	ND

Sample ID:	LTP-66-A-20130629	LTP-66-B-20130629
Sample Date:	6/29/2013	6/29/2013
Sampling Depth:	5-7'	7-9'
Units:	mg/kg	mg/kg
Metals		
Nickel	23.8	35.8
Zinc	62	181



Legend

3 — 1-Acre Grid Cell

Proposed Brownfields Cleanup Program Site Boundary

Fashion Outlets Of Niagara Falls Site Boundary

2013 Remedial Investigation Sample Locations

Soil Boring

Boring/Monitoring Well

Test Pit

Notes:
1. Aerial basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source ofaerial imagery is US-NY-Buffalo from15 April 2011.
2. The site boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013.
3. The following proposed soil borings were converted to test pits due to field conditions: LSB-31, LSB-33, LSB-37, LSB-38, LSB-39, LSB-44, LSB-45, LSB-50, LSB-51, LSB-52, LSB-53, LSB-54, LSB-55, LSB-56, LSB-58, LSB-59, LSB-60, LSB-62, LSB-63.
4. The following proposed test pits were converted to soil borings due to field conditions: LTP-1, LTP-2, LTP-3, LTP-13, LTP-45.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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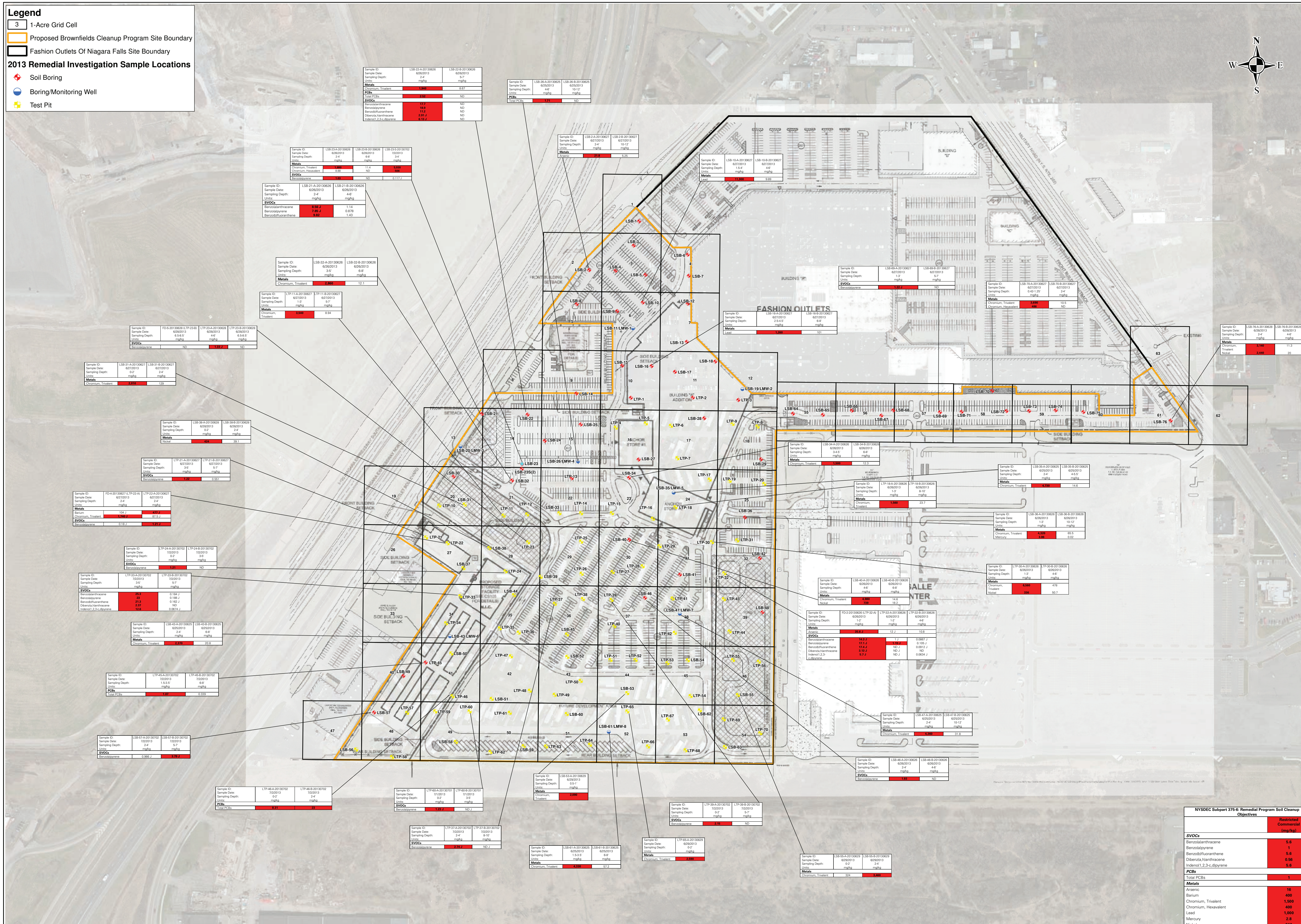
Project	Drawing Title	Project No. 140091401	Figure
FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK	SOIL ANALYTICAL DATA UNRESTRICTED USE OBJECTIVES EXCEEDANCES	Date 7/12/2013 Scale 1"= 100' Drawn By amf Last Revised 8/2/2013	5



NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives	Restricted Commercial (mg/kg)
SVOCs	
Benzo(a)anthracene	5.6
Benzo(a)pyrene	1
Benzo(b)fluoranthene	5.6
Dibenz(a,h)anthracene	0.56
Indeno(1,2,3-c,d)pyrene	5.6
PCBs	
Total PCBs	1
Metals	
Arsenic	16
Barium	400
Chromium, Trivalent	1,500
Chromium, Hexavalent	400
Lead	1,000
Mercury	2.8
Nickel	310

Notes:
1. Aerial basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Source ofaerial imagery is US-NY-Buffalo from15 April 2011.
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4. The following proposed test pits were converted to soil borings due to field conditions: LTP-1, LTP-2, LTP-3, LTP-13, LTP-45.

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NEW JERSEY NEW YORK VIRGINIA CALIFORNIA PENNSYLVANIA CONNECTICUT FLORIDA
ABU DHABI ATHENS DOHA DUBAI ISTANBUL
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	Drawing Title	Project No. 140091401	Figure
FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK	SOIL ANALYTICAL DATA RESTRICTED COMMERCIAL USE OBJECTIVES EXCEEDANCES	Date 7/10/2013 Scale 1"= 100' Drawn By amf Last Revised 8/20/2013	6

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 4 - Soil Analytical Results - Restricted Commercial Exceedances.mxd

	GW Quality Standards Part 703 (µg/L)
VOCs	
cis -1,2-Dichloroethylene	**5**
Trichloroethylene (TCE)	**5**
Vinyl Chloride	**2**
SVOCs	
Benzo(k)fluoranthene	**0.002**
Metals	
Chromium, Hexavalent	**50**
Chromium, Total	**50**
Manganese	**300**
Selenium	**10**

Sample ID:	LMW-4-20130702
Sample Date:	7/2/2013
Sample Depth:	5.75'
Units:	µg/L
Metals	
Manganese	**1,330**
Selenium	**10**

Sample ID:	LMW-1-20130702
Sample Date:	7/2/2013
Sample Depth:	7'
Units:	µg/L
Metals	
Manganese	**1,140**
VOCs	
cis-1,2-Dichloroethylene	**59**
Trichloroethylene (TCE)	**19**
Vinyl Chloride	**13**

Sample ID:	LMW-3-20130702
Sample Date:	7/2/2013
Sample Depth:	6.5'
Units:	µg/L
Metals	
Manganese	**2,730**
Selenium	**19**

Sample ID:	LMW-2-20130702
Sample Date:	7/2/2013
Sample Depth:	6.25'
Units:	µg/L
Metals	
Manganese	**504**

Sample ID:	LMW-6-20130702
Sample Date:	7/2/2013
Sample Depth:	6'
Units:	µg/L
Metals	
Chromium, Hexavalent	**818**
Chromium, Total	**884**

Sample ID:	LMW-5-20130702
Sample Date:	7/2/2013
Sample Depth:	7'
Units:	µg/L
Metals	
Chromium, Hexavalent	**1,230**
Chromium, Total	**1,260**

Sample ID:	FD-1-20130702 (LMW-8)	LMW-8-20130702
Sample Date:	7/2/2013	7/2/2013
Sample Depth:	5'	5'
Units:	µg/L	µg/L
Metals		
Chromium, Hexavalent	**1,220**	**1,120**
Chromium, Total	**1,220**	**1,230**
SVOCs		
Benzo(k)fluoranthene	ND J	**0.0526 J**

Sample ID:	LMW-7-20130702
Sample Date:	7/2/2013
Sample Depth:	5.5'
Units:	µg/L
Metals	
Chromium, Hexavalent	**910**
Chromium, Total	**921**

LSB-11/LMW-1
LSB-19/LMW-2
LSB-20/LMW-3
LSB-26/LMW-4
LSB-35/LMW-5
LSB-43/LMW-6
LSB-47/LMW-7
LSB-61/LMW-8

FASHION OUTLETS OF NIAGARA FALLS
LASALLE CENTER

N W E S

Legend

- Monitoring Well
- 1-Acre Grid Cell
- Brownfields Cleanup Program Site Boundary
- Fashion Outlets Of Niagara Falls Site Boundary

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SCALE IN FEET

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Project
FONF Expansion/ Sabre Park BCP
TOWN OF NIAGARA
NIAGARA COUNTY NEW YORK

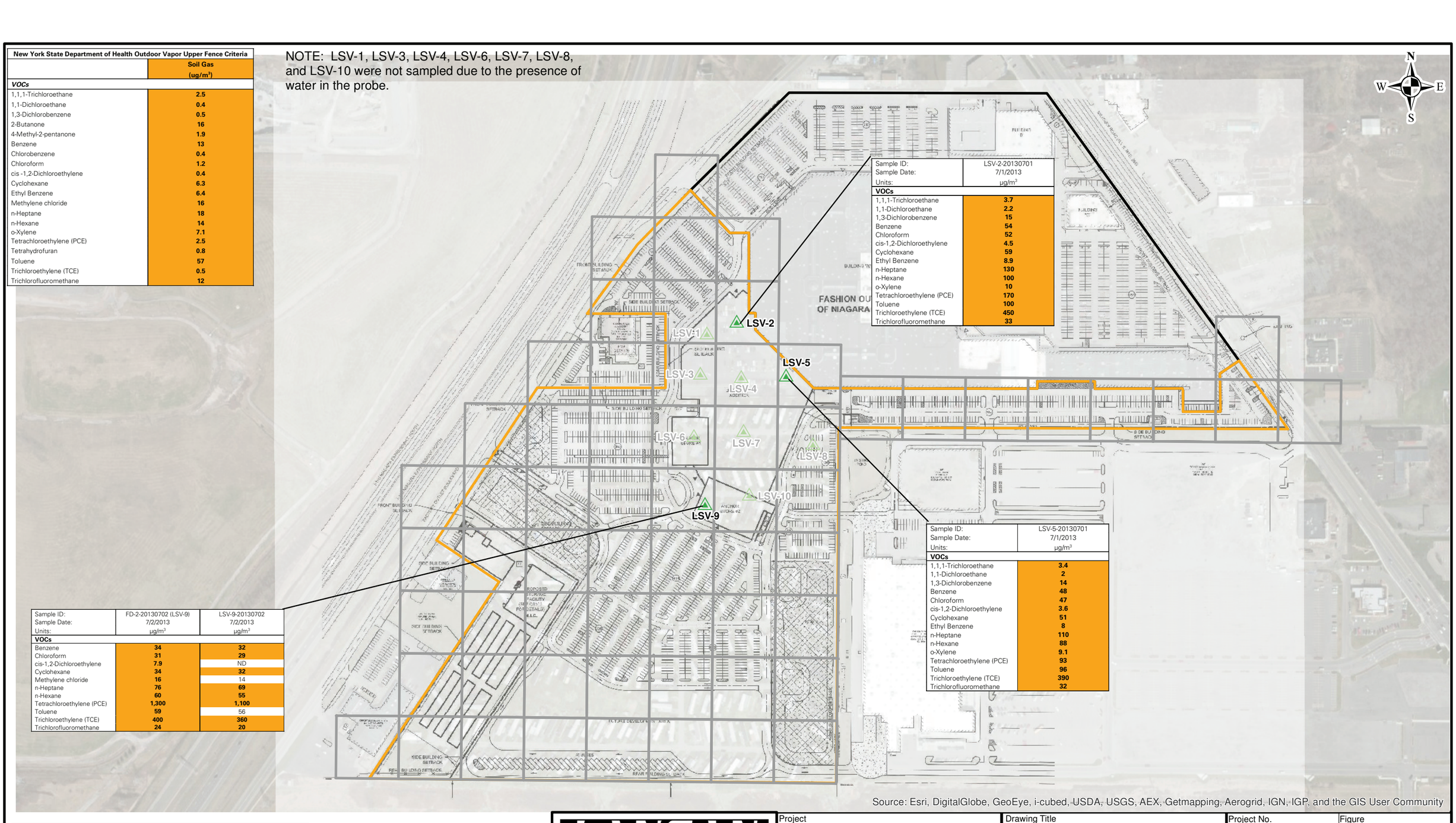
Drawing Title
GROUNDWATER ANALYTICAL RESULTS

Project No.	140091401
Date	7/10/2013
Scale	1"=300'
Drawn By	amf
Last Revised	8/2/2013
Figure	7

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 5 - Groundwater Analytical Results.mxd

New York State Department of Health Outdoor Vapor Upper Fence Criteria	
	Soil Gas (ug/m³)
VOCs	
1,1,1-Trichloroethane	**2.5**
1,1-Dichloroethane	**0.4**
1,3-Dichlorobenzene	**0.5**
2-Butanone	**16**
4-Methyl-2-pentanone	**1.9**
Benzene	**13**
Chlorobenzene	**0.4**
Chloroform	**1.2**
cis -1,2-Dichloroethylene	**0.4**
Cyclohexane	**6.3**
Ethyl Benzene	**6.4**
Methylene chloride	**16**
n-Heptane	**18**
n-Hexane	**14**
o-Xylene	**7.1**
Tetrachloroethylene (PCE)	**2.5**
Tetrahydrofuran	**0.8**
Toluene	**57**
Trichloroethylene (TCE)	**0.5**
Trichlorofluoromethane	**12**

NOTE: LSV-1, LSV-3, LSV-4, LSV-6, LSV-7, LSV-8, and LSV-10 were not sampled due to the presence of water in the probe.



Sample ID:	LSV-2-20130701
Sample Date:	7/1/2013
Units:	µg/m³
VOCs	
1,1,1-Trichloroethane	**3.7**
1,1-Dichloroethane	**2.2**
1,3-Dichlorobenzene	**15**
Benzene	**54**
Chloroform	**52**
cis-1,2-Dichloroethylene	**4.5**
Cyclohexane	**59**
Ethyl Benzene	**8.9**
n-Heptane	**130**
n-Hexane	**100**
o-Xylene	**10**
Tetrachloroethylene (PCE)	**170**
Toluene	**100**
Trichloroethylene (TCE)	**450**
Trichlorofluoromethane	**33**

Sample ID:	LSV-5-20130701
Sample Date:	7/1/2013
Units:	µg/m³
VOCs	
1,1,1-Trichloroethane	**3.4**
1,1-Dichloroethane	**2**
1,3-Dichlorobenzene	**14**
Benzene	**48**
Chloroform	**47**
cis-1,2-Dichloroethylene	**3.6**
Cyclohexane	**51**
Ethyl Benzene	**8**
n-Heptane	**110**
n-Hexane	**88**
o-Xylene	**9.1**
Tetrachloroethylene (PCE)	**93**
Toluene	**96**
Trichloroethylene (TCE)	**390**
Trichlorofluoromethane	**32**

Sample ID:	FD-2-20130702 (LSV-9)	LSV-9-20130702
Sample Date:	7/2/2013	7/2/2013
Units:	µg/m³	µg/m³
VOCs		
Benzene	**34**	**32**
Chloroform	**31**	**29**
cis-1,2-Dichloroethylene	**7.9**	ND
Cyclohexane	**34**	**32**
Methylene chloride	**16**	14
n-Heptane	**76**	**69**
n-Hexane	**60**	**55**
Tetrachloroethylene (PCE)	**1,300**	**1,100**
Toluene	**59**	56
Trichloroethylene (TCE)	**400**	**360**
Trichlorofluoromethane	**24**	**20**

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

Legend

- Soil Gas Sample Location
- 1-Acre Grid Cell
- Brownfields Cleanup Program Site Boundary
- Fashion Outlets Of Niagara Falls Site Boundary

300 0 300
SCALE IN FEET

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Project
FONF Expansion/ Sabre Park BCP
TOWN OF NIAGARA
NIAGARA COUNTY NEW YORK

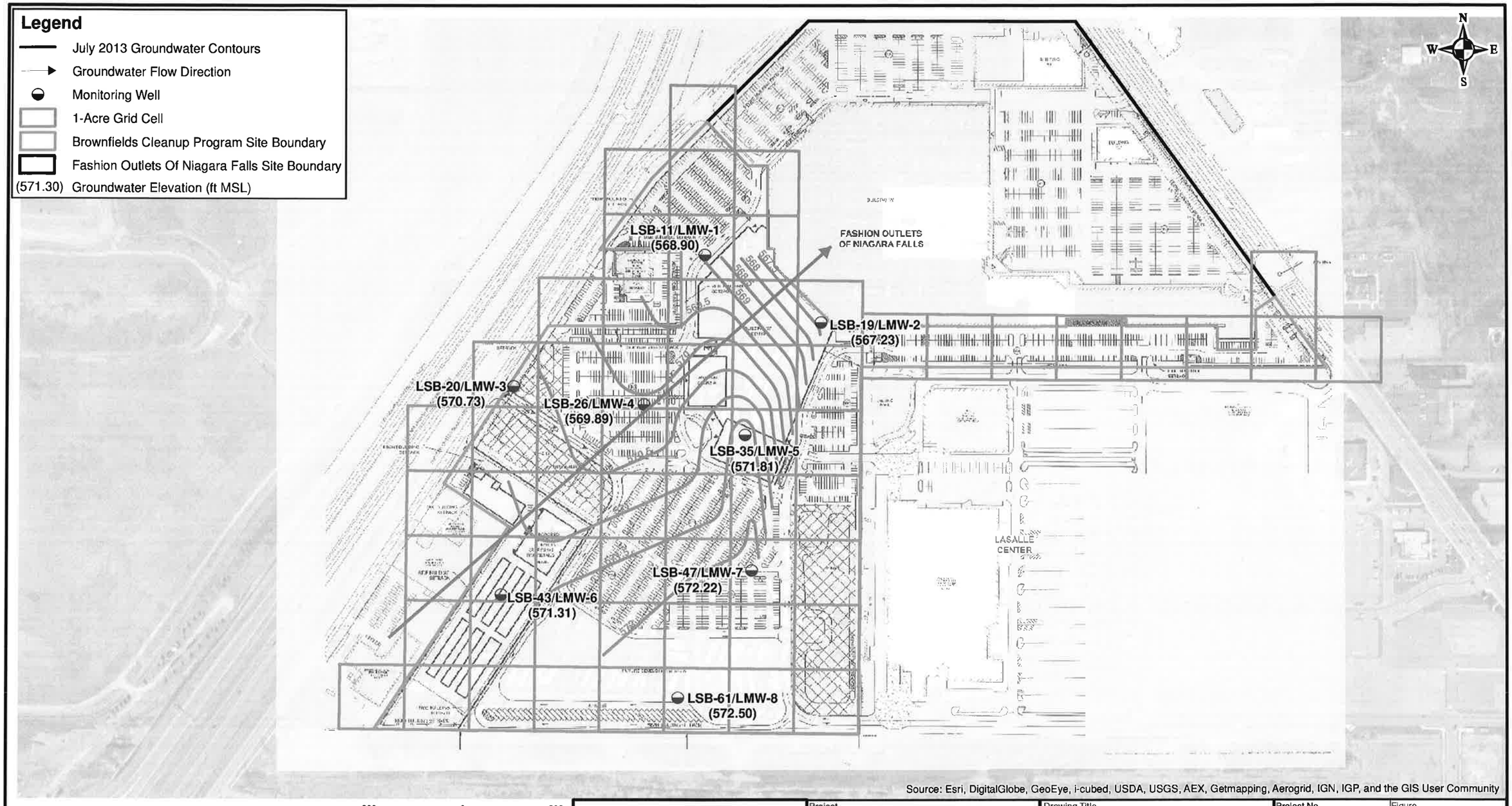
Drawing Title
SOIL GAS ANALYTICAL RESULTS

Project No.	Figure
140091401	8
Date: 7/14/2013	
Scale: 1"=300'	
Drawn By: amf	
Last Revised: 8/2/2013	

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 6 - Soil Gas Analytical Results.mxd

Legend

- July 2013 Groundwater Contours
- Groundwater Flow Direction
- Monitoring Well
- 1-Acre Grid Cell
- Brownfields Cleanup Program Site Boundary
- Fashion Outlets Of Niagara Falls Site Boundary
- (571.30) Groundwater Elevation (ft MSL)



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

300 0 300
SCALE IN FEET

Notes:
1. The site boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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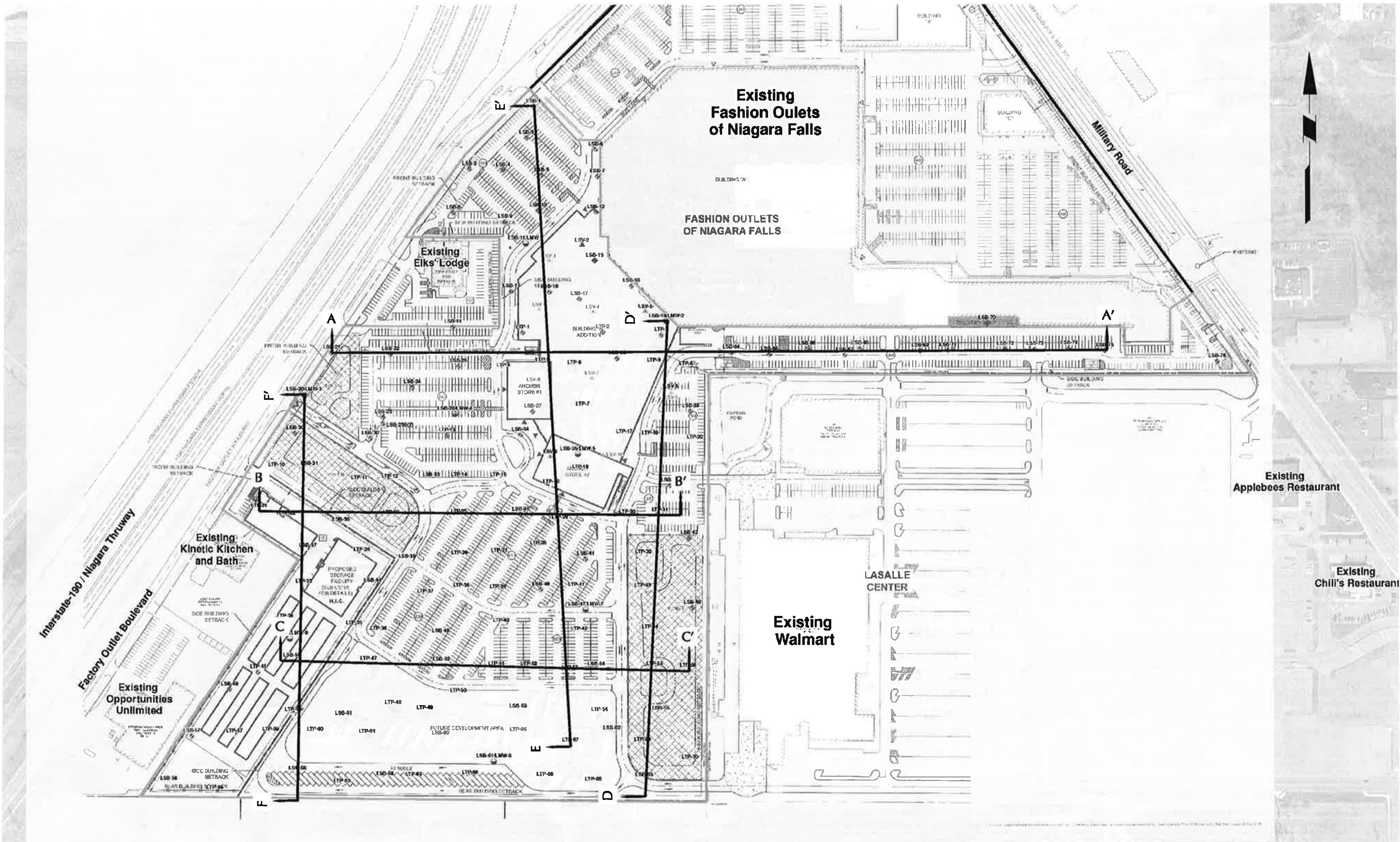
Project	FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK
Drawing Title	GROUNDWATER ANALYTICAL RESULTS
Project No.	140091401
Date	7/10/2013
Scale	1"=300'
Drawn By	amf
Last Revised	8/20/2013
Figure	9

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 9 - Groundwater Contour Map.mxd



NOTES

1. BORINGS LSB-# COMPLETED BY SJB SERVICES, INC OF BUFFALO, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
2. TEST PITS LTP-# COMPLETED BY MARK CERRONE, INC OF NIAGARA FALLS, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
3. BORING AND TEST PIT LOCATIONS AND ELEVATIONS WERE SURVEYED BY A LANGAN REPRESENTATIVE JULY 2013 UTILIZING A TRIMBLE RTK GPS UNIT REFERENCING THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION COOPERATIVE BASE STATION NETWORK. HORIZONTAL COORDINATES WERE REFERENCED BY THE WEST NAD83 DATABASE AND THE VERTICAL COORDINATES WERE REFERENCED BY THE NAVD88 DATABASE.
4. DEPICTED GROUNDWATER LEVELS ARE INFERRED BASED ON GROUNDWATER CONTOURS CREATED FROM MONITORING WELL GAUGING EVENT PERFORMED JULY 2013.
5. AREAS OF PROPOSED EXISTING GRADE CUTS ARE BASED ON STANTEC INC. DRAWING C-GRAD.
6. PROPOSED SITE MAP PROVIDED BY STANTEC INC.

100 0 50 100
SCALE IN FEET

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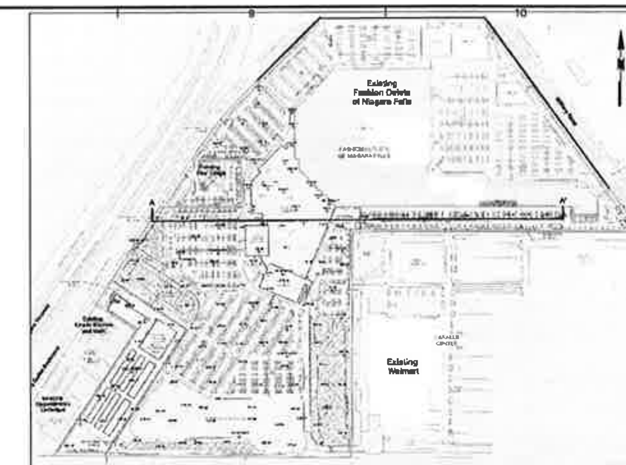
Project	Drawing Title		Drawing No.
FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA FALLS NIAGARA COUNTY NEW YORK	PROFILE LOCATION PLAN	Project No. 140091401 Date 8/2/2013 Scale 1" = 100' Drawn By jph Submission Date 8/2/2013	10a



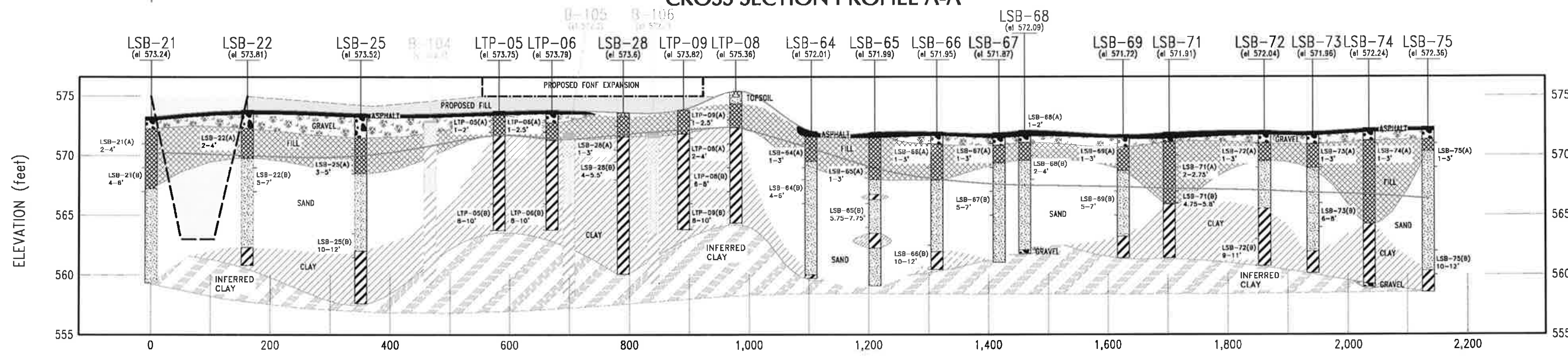
CROSS SECTION LOCATION MAP

Existing Storage Facility Limits

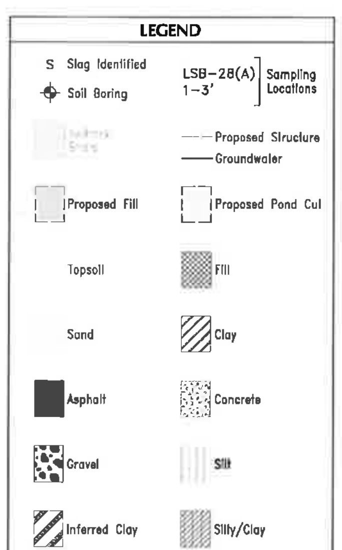
Sabre Park Limits

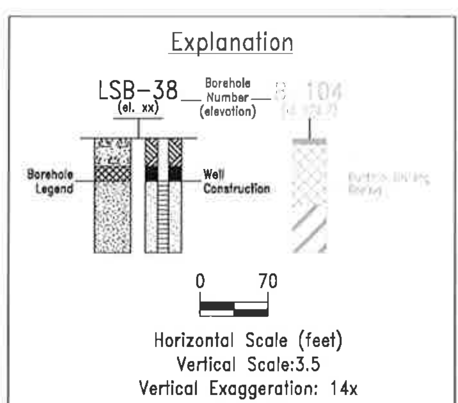
FONF Limits

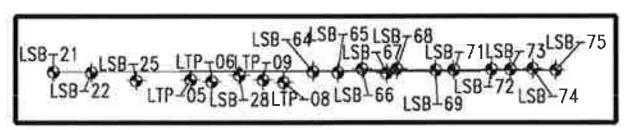
CROSS SECTION PROFILE A-A'



A A'







Site Map Scale 1 inch equals 1,225 feet

NOTES

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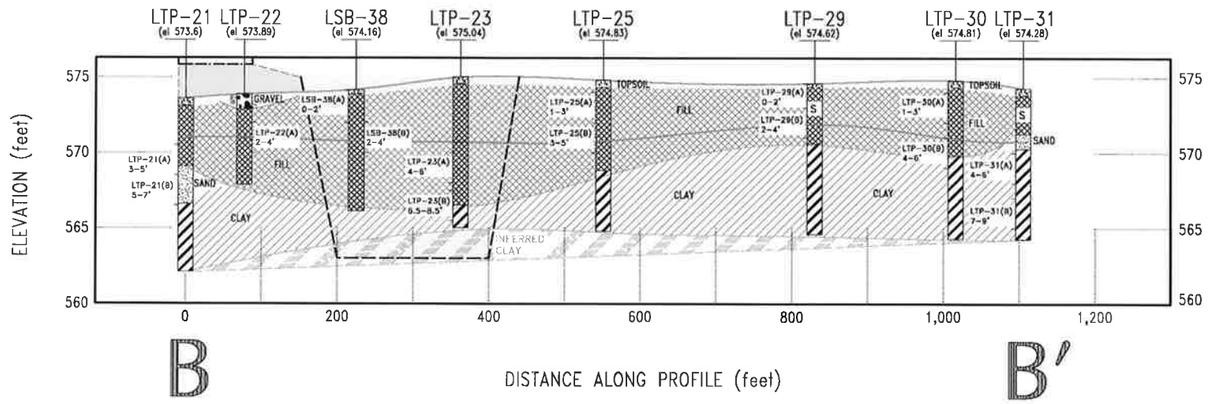
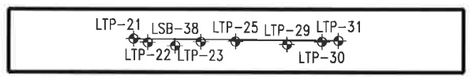
4. DEPICTED GROUNDWATER LEVELS ARE INFERRED BASED ON GROUNDWATER CONTOURS CREATED FROM MONITORING WELL GAUGING EVENT PERFORMED JULY 2013.
5. AREAS OF PROPOSED EXISTING GRADE CUTS ARE BASED ON STANTEC INC. DRAWING C-GRAD.
6. BORINGS B-102 AND B-101 ARE TAKEN FROM BARRON & ASSOCIATES , P.C. PRELIMINARY GEOITEHCNICAL ENGINEERING REPORT DATED 31 JANUARY 2012, AND ARE USED AS A REFERENCE.

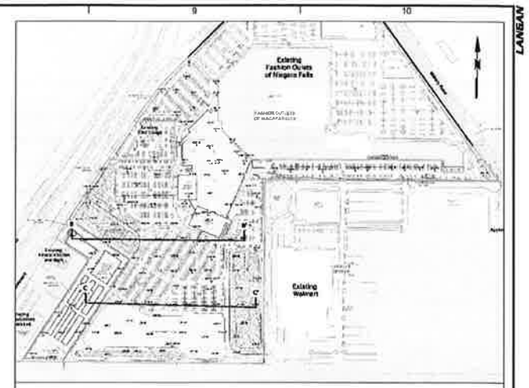
LANGAN	Project: FONF Expansion/ Sabre Park BCP, TOWN OF NIAGARA, NIAGARA COUNTY, NEW YORK	Drawing Title: PROFILE A-A'	Project No. 140091401; Date 8/2/2013; Scale; Drawn By jab; Submission Date 8/2/2013	Drawing No. 10b

Sabre Park Limits
CROSS SECTION PROFILE B-B'





Site Map Scale 1 inch equals 1,225 feet



CROSS SECTION LOCATION MAP

NOTES

1. BORINGS LSB-# COMPLETED BY SJB SERVICES, INC OF BUFFALO, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
2. TEST PITS LTP-# COMPLETED BY MARK CERRONE, INC OF NIAGARA FALLS, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
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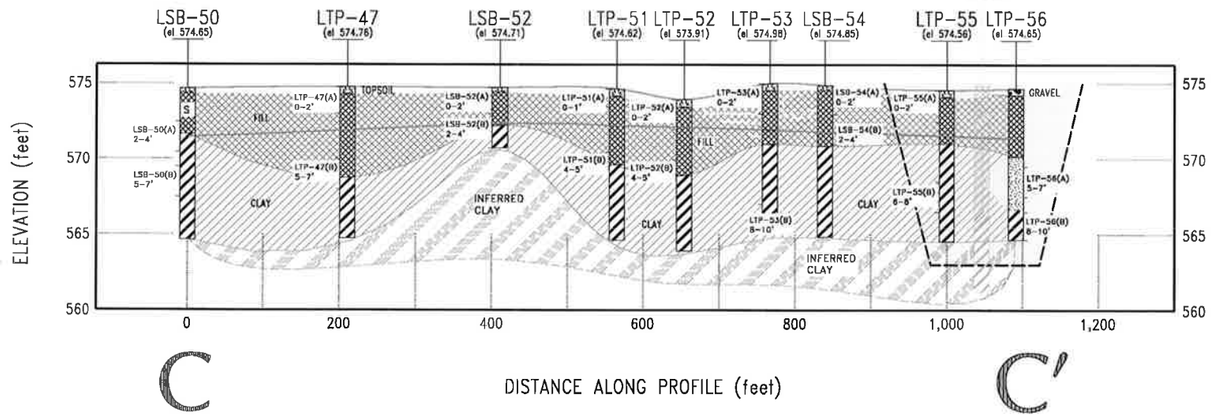
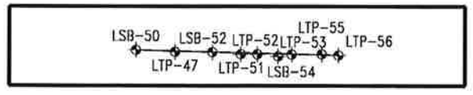
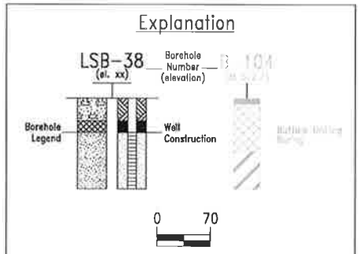
Sabre Park Limits
CROSS SECTION PROFILE C-C'





Site Map Scale 1 inch equals 1,225 feet

Explanation



Horizontal Scale (feet)
Vertical Scale:3.5
Vertical Exaggeration: 14x

LEGEND

- S Slag Identified
- Soil Boring
- LSB-28(A) 1-3' Sampling Locations
- Proposed Structure
- Groundwater
- Proposed Fill
- Proposed Pond Cut
- Topsoil
- Fill
- Sand
- Clay
- Asphalt
- Concrete
- Gravel
- Silt
- Inferred Clay
- Silty/Clay

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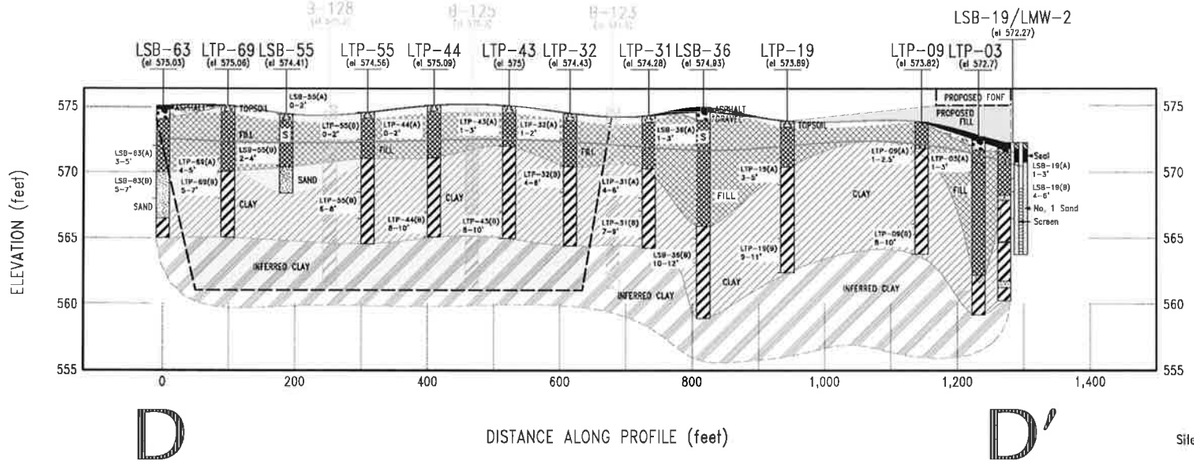
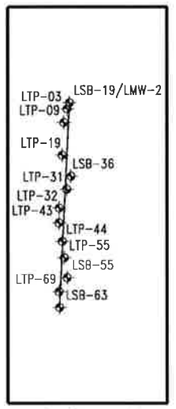
Project: FONF Expansion/ Sabre Park BCP
TOWN OF NIAGARA
NIAGARA COUNTY NEW YORK

Drawing Title: PROFILE B-B' & C-C'

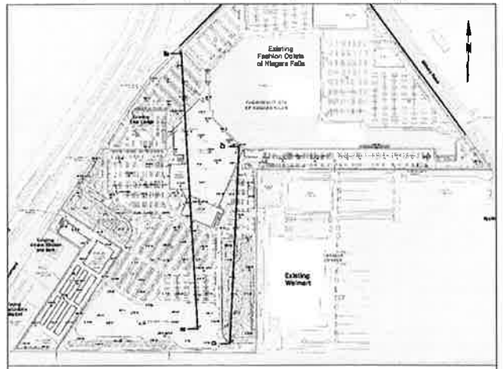
Project No.	Drawing No.
140091401	10c
Date: 8/2/2013	
Scale:	
Drawn By: jph	
Submission Date: 8/2/2013	

Sabre Park Limits — FONF Limits
CROSS SECTION PROFILE D-D'



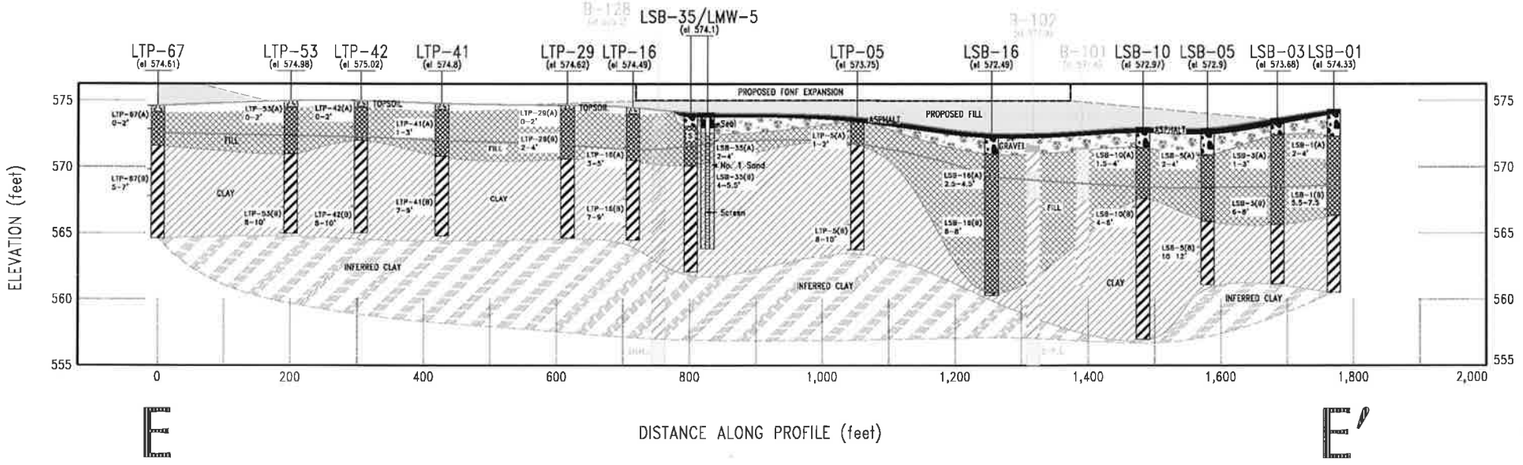


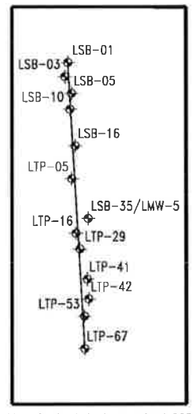
Site Map Scale 1 inch equals 1,225 feet



CROSS SECTION LOCATION MAP

Sabre Park Limits — FONF Limits
CROSS SECTION PROFILE E-E'



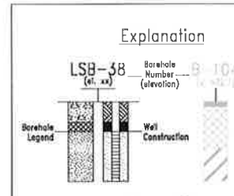


Site Map Scale 1 inch equals 1,225 feet

LEGEND

- S Slag Identified
- Soil Boring
- LSB-28(A) 1-3' Sampling Locations
- Proposed Structure
- Groundwater
- Proposed Fill
- Proposed Pond Cut
- Topsoil
- Fill
- Sand
- Clay
- Asphalt
- Concrete
- Gravel
- Silt
- Inferred Clay
- Silty/Clay

Explanation



Horizontal Scale (feet)
Vertical Scale:4.0
Vertical Exaggeration: 16x

NOTES

1. BORINGS LSB-# COMPLETED BY SJB SERVICES, INC OF BUFFALO, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
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3. BORING AND TEST PIT LOCATIONS AND ELEVATIONS WERE SURVEYED BY A LANGAN REPRESENTATIVE JULY 2013 UTILIZING A TRIMBLE RTK GPS UNIT REFERENCING THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION COOPERATIVE BASE STATION NETWORK. HORIZONTAL COORDINATES WERE REFERENCED BY THE WEST NAD83 DATABASE AND THE VERTICAL COORDINATES WERE REFERENCED BY THE NAVD88 DATABASE.
4. DEPICTED GROUNDWATER LEVELS ARE INFERRED BASED ON GROUNDWATER CONTOURS CREATED FROM MONITORING WELL GAUGING EVENT PERFORMED JULY 2013.
5. AREAS OF PROPOSED EXISTING GRADE CUTS ARE BASED ON STANTEC INC. DRAWING C-GRAD.
6. BORINGS B-102 AND B-101 ARE TAKEN FROM BARRON & ASSOCIATES , P.C. PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 31 JANUARY 2012, AND ARE USED AS A REFERENCE.

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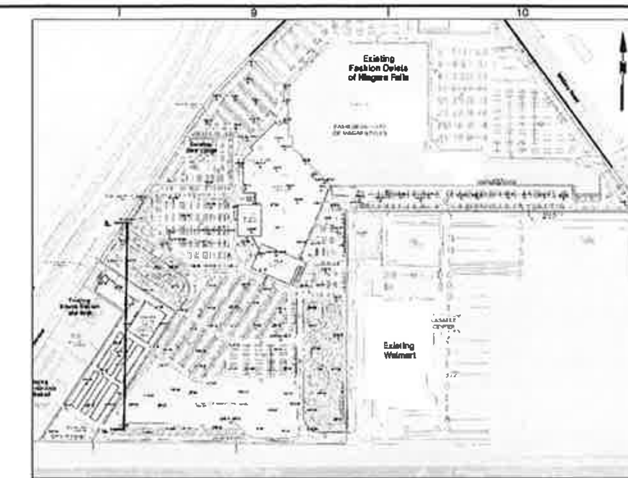
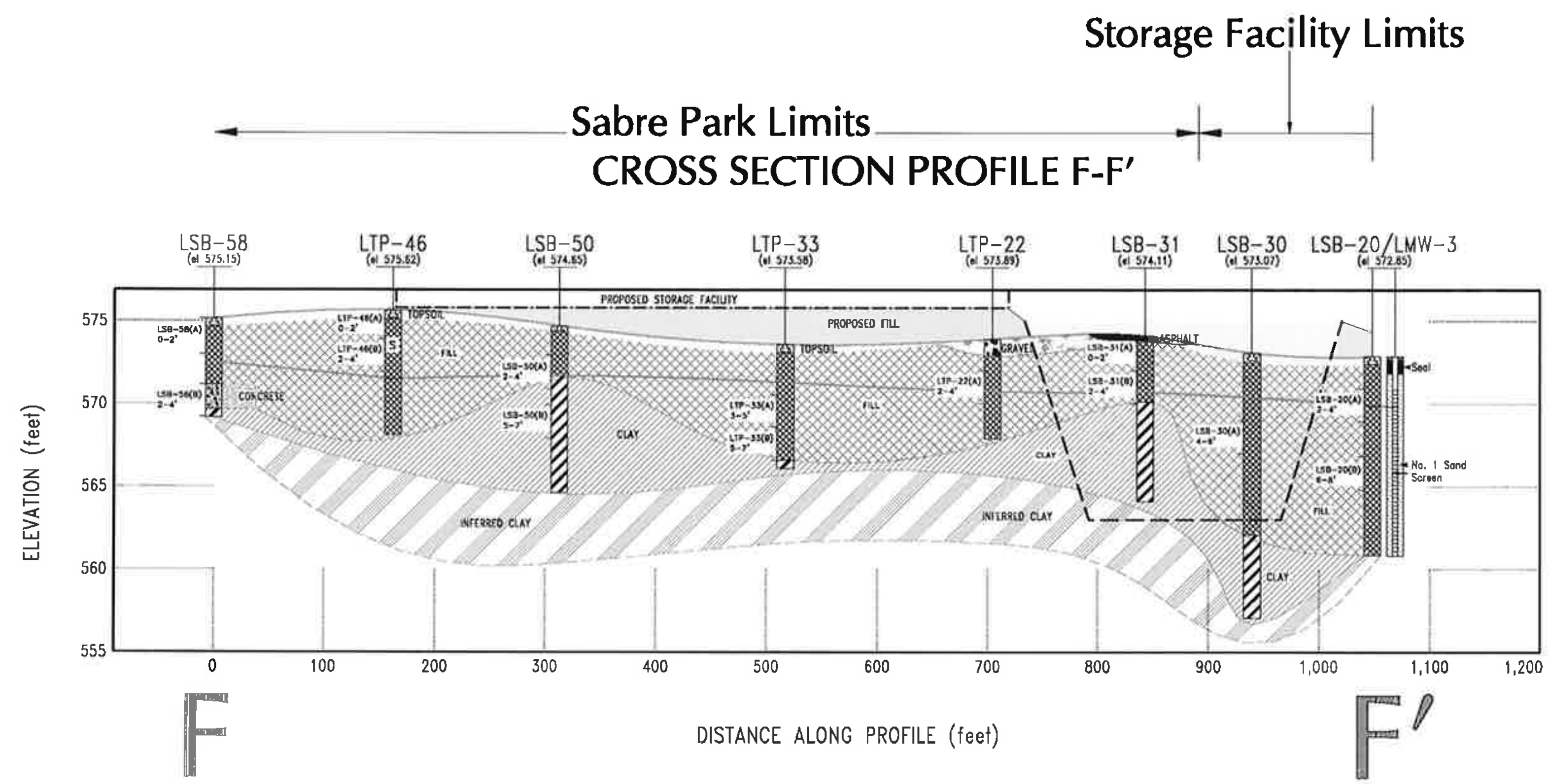
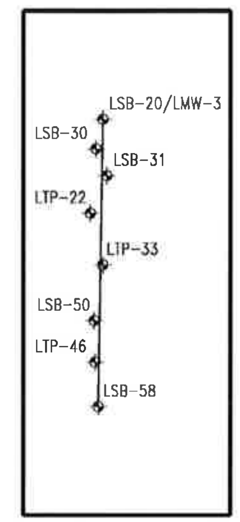
Project	FONF Expansion/ Sabre Park BCP, TOWN OF NIAGARA, NIAGARA COUNTY, NEW YORK
Drawing Title	PROFILE D-D' & E-E'
Project No.	140091401
Date	8/2/2013
Scale	
Drawn By	jph
Submission Date	8/2/2013
Drawing No.	10d

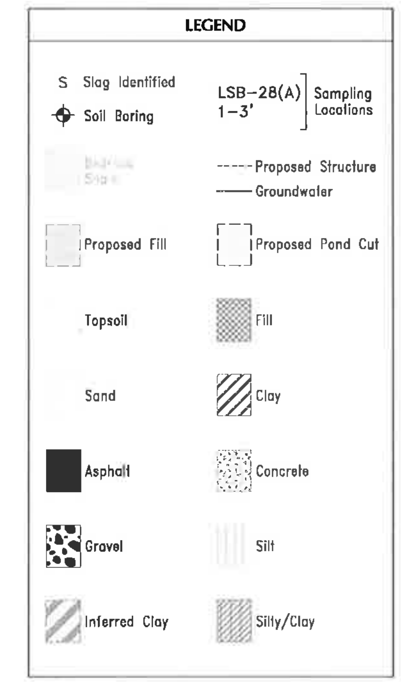


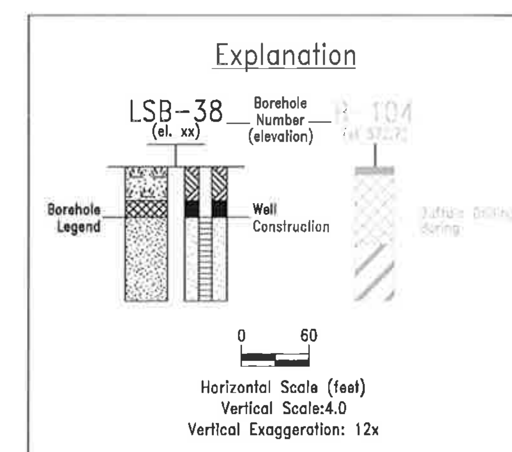
CROSS SECTION LOCATION MAP





Site Map Scale 1 inch equals 920 feet





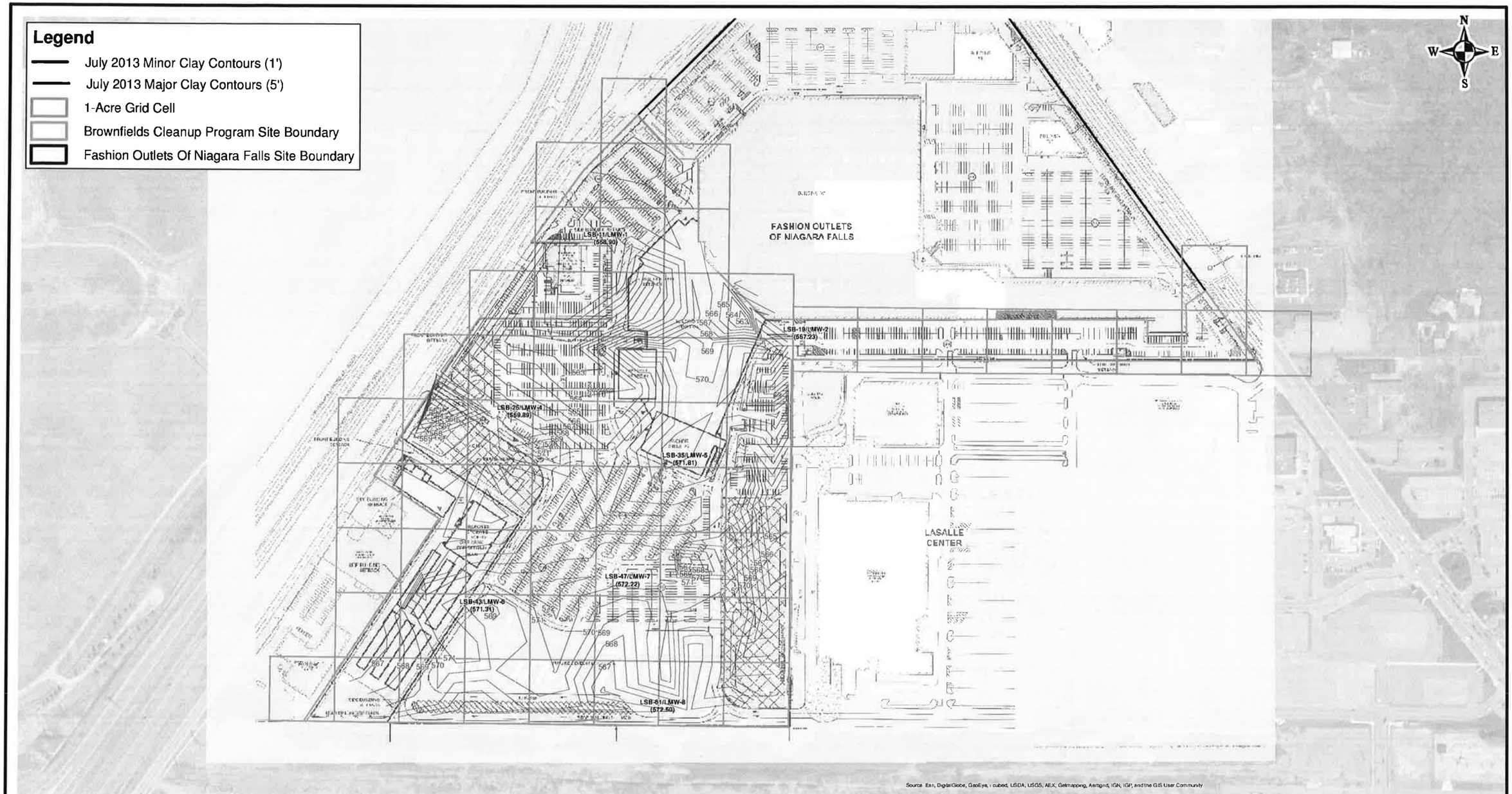
NOTES

1. BORINGS LSB-# COMPLETED BY SJB SERVICES, INC OF BUFFALO, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
2. TEST PITS LTP-# COMPLETED BY MARK CERRONE, INC OF NIAGARA FALLS, NEW YORK IN JUNE AND JULY 2013 WITH OVERSIGHT PROVIDED BY LANGAN.
3. BORING AND TEST PIT LOCATIONS AND ELEVATIONS WERE SURVEYED BY A LANGAN REPRESENTATIVE JULY 2013 UTILIZING A TRIMBLE RTK GPS UNIT REFERENCING THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION COOPERATIVE BASE STATION NETWORK. HORIZONTAL COORDINATES WERE REFERENCED BY THE WEST NAD83 DATABASE AND THE VERTICAL COORDINATES WERE REFERENCED BY THE NAVD88 DATABASE.
4. DEPICTED GROUNDWATER LEVELS ARE INFERRED BASED ON GROUNDWATER CONTOURS CREATED FROM MONITORING WELL GAUGING EVENT PERFORMED JULY 2013.
5. AREAS OF PROPOSED EXISTING GRADE CUTS ARE BASED ON STANTEC INC. DRAWING C-GRAD.
6. BORINGS B-102 AND B-101 ARE TAKEN FROM BARRON & ASSOCIATES , P.C. PRELIMINARY GEOITEHCNICAL ENGINEERING REPORT DATED 31 JANUARY 2012, AND ARE USED AS A REFERENCE.

LANGAN	Project	Drawing Title		Drawing No.
	FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK	PROFILE F-F'	Project No. 140091401 Date 8/2/2013 Scale Drawn By jah Submission Date 8/2/2013	10e

Legend

- July 2013 Minor Clay Contours (1')
- July 2013 Major Clay Contours (5')
- 1-Acre Grid Cell
- Brownfields Cleanup Program Site Boundary
- Fashion Outlets Of Niagara Falls Site Boundary



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

300 0 300

SCALE IN FEET

Notes:

1. The site boundary is based on the Topographic Survey prepared by Stantec Consulting Services, Inc. last updated on February 21, 2013 and Drawing No. V-14 titled Exhibit D - Brownfield Cleanup Program Parcel prepared by Stantec Consulting Services Inc. dated April 16, 2013.

WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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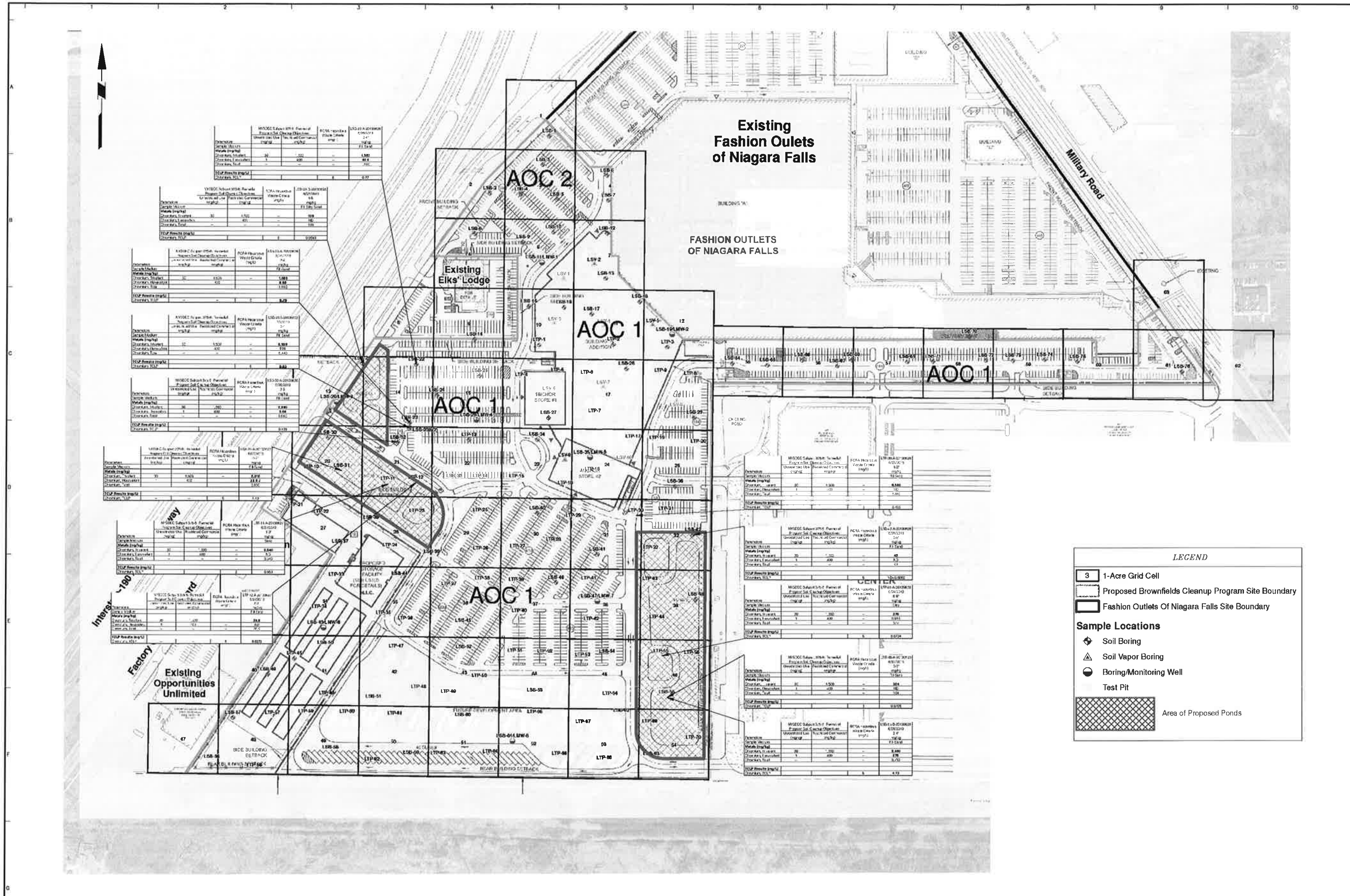
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project	FONF Expansion/ Sabre Park BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK
Drawing Title	SUBSURFACE CLAY CONTOUR MAP
Project No.	140091401
Date	7/10/2013
Scale	1"=300'
Drawn By	dvg
Last Revised	8/20/2013
Figure	11

Path: \\langan.com\data\EP\data4\140091401\ArcGIS\ArcMap_Documents\2013-07 - RIR\Figure 11 - Clay Contour Map.mxd



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

LANGAN 555 Long Wharf Drive, New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com	Project FONF EXPANSION/ SABRE PARK BCP TOWN OF NIAGARA NIAGARA COUNTY NEW YORK	Drawing Title TOTAL CHROMIUM TCLP RESULTS MAP	Project No. 140091401 Date 6/2/2013 Scale 1" = 100' Drawn By jph Submission Date 6/2/2013	Drawing No. FIG. 12 Sheet 1 of 1

APPENDIX C

SITE SCGs

APPENDIX C

1.0 SCG's for site characterization and remedial investigation

The following standards and criteria typically will apply to Site Characterizations and Remedial Investigations conducted in New York State:

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 6 NYCRR Part 182 - Endangered & Threatened Species of Fish & Wildlife
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands Maps and Classification
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 6 NYCRR Part 257 - Air Quality Standards
- 10 NYCRR Part 5 of the State Sanitary Code - Drinking Water Supplies (May 1998)
- 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response
- 6 NYCRR Part 175 - Special Licenses and Permits--Definitions and Uniform Procedures

The following guidance typically applies to Site Characterizations and Remedial Investigations conducted in New York State:

- TAGM 4046 - Determination of Soil Cleanup Objectives and Cleanup Levels (January 1994)
- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- SPOTS #14 - Site Assessments at Bulk Storage Facilities (August 1994)

- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorus Wildlife (July 1987)
- Wildlife Toxicity Assessment for Cadmium in Soils (May 1999)
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- The 10 ppt Health Advisory Guideline for 2,3,7,8-TCDD in Sportfish Flesh
- The 1 ppm Health Advisory Guideline for Cadmium in Sportfish Flesh
- Criteria for the Development of Health Advisories for Sportfish Consumption
- NYSDOH Indoor Air Sampling & Analysis Guidance (August 8, 2001 or subsequent update)
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (draft October 2004 or subsequent final draft)
- DER Interim Strategy for Groundwater Remediation at Contaminated Sites in New York State

2.0 SCGs for remedy selection

The following standards and criteria typically apply to the remedy selection process conducted in New York State:

- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands - Permit Requirements
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)

- 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources

The following guidance typically applies to the remedy selection process conducted in New York State:

- TAGM 4044 - Accelerated Remedial Actions at Class 2, Non-RCRA Regulated Landfills (March 1992)
- TAGM 4051 - Early Design Strategy (August 1993)
- Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook (June 1998)
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- Freshwater Wetlands Regulations - Guidelines on Compensatory Mitigation (October 1993)
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.047FS Presumptive Remedies: Policy and Procedures (September 1993)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.048FS Presumptive Remedies:
- Site Characterization and Technology Selection for CERCLA sites with Volatile Organic Compounds in Soils (September 1993)
- USEPA Office of Solid Waste and Emergency Response Directive 9355.049FS Presumptive Remedy for CERCLA Municipal Landfills (September 1993)

3.0 SCGs for underground storage tank closure

The following standards and criteria typically apply to UST closures conducted in New York State:

- 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)
- 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)

- 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992)
- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes (November 1998)
- 6 NYCRR Subpart 374-2 - Standards for the Management of Used Oil (November 1998)
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

The following guidance typically applies to UST closures conducted in New York State:

- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- STARS #2 - Biocell and Biopile Designs for Small-Scale Petroleum-Contaminated Soil Projects
- SPOTS #14 - Site Assessments at Bulk Storage Facilities (August 1994)
- Spill Response Guidance Manual
- Permanent Closure of Petroleum Storage Tanks (July 1988)
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- NYSDOH Environmental Health Manual CSFP-530 - “Individual Water Supplies - Activated Carbon Treatment Systems”

4.0 SCGs for remedial action

The following standards and criteria typically apply to Remedial Actions conducted in New York State:

- 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response
- 40 CFR Part 144 - Underground Injection Control Program
- 10 NYCRR Part 67 – Lead
- 12 NYCRR Part 56 - Industrial Code Rule 56 (Asbestos)
- 6 NYCRR Part 175 - Special Licenses and Permits--Definitions and Uniform Procedures
- 6 NYCRR Part 361 - Siting of Industrial Hazardous Waste Facilities
- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes (November 1998)
- 6 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998)
- 6 NYCRR Subpart 373-4 - Facility Standards for the Collection of Household Hazardous Waste and Hazardous Waste from Conditionally Exempt Small Quantity Generators (November 1998)
- 6 NYCRR Subpart 374-1 - Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998)
- 6 NYCRR Subpart 374-3 - Standards for Universal Waste (November 1998)
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites (as amended January 1998)
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 19 NYCRR Part 600 - Waterfront Revitalization and Coastal Resources
- 6 NYCRR Part 608 - Use and Protection of Waters
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands - Permit Requirements

- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 6 NYCRR Part 750 through 758 - Implementation of NPDES Program in NYS ("SPDES Regulations")
- Technical Guidance for Screening Contaminated Sediments (January 1999)

The following guidance typically applies to Remedial Actions conducted in New York State:

- TAGM 4013 - Emergency Hazardous Waste Drum Removal/ Surficial Cleanup Procedures (March 1996)
- TAGM 4046 - Determination of Soil Cleanup Objectives and Cleanup Levels (January 1994)
- TAGM 4059 - Making Changes To Selected Remedies (May 1998)
- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- STARS #2 - Biocell and Biopile Designs for Small-Scale Petroleum-Contaminated Soil Projects
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook (June 1998)
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- TOGS 1.3.8 - New Discharges to Publicly Owned Treatment Works
- TOGS 2.1.2 - Underground Injection/Recirculation (UIR) at Groundwater Remediation Sites
- Air Guide 1 - Guidelines for the Control of Toxic Ambient Air Contaminants
- State Coastal Management Policies
- OSWER Directive 9200.4-17 - Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites (November 1997)

- NYSDOH Environmental Health Manual CSFP-530 - “Individual Water Supplies - Activated Carbon Treatment Systems”

5.0 SCGs for site management

The following standards and criteria typically apply to Site Management activities conducted in New York State:

- 6 NYCRR Part 175 - Special Licenses and Permits--Definitions and Uniform Procedures

The following guidance typically applies to Site Management activities conducted in New York State:

- Groundwater Monitoring Well Decommissioning Procedures (May 1995)
- The activity is a component of a program selected by a process complying with the public participation requirements of section 1.10, to the extent applicable.
- NYSDOH Environmental Health Manual CSFP-530 - “Individual Water Supplies - Activated Carbon Treatment Systems”