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Former N.L. Industries
3241 Walden Avenue
Depew, New York

BCA Index# B9-0554-98-12
Site# C-915200

Final Engineering Report

Prepared For:

New York State
Brownfield Cleanup Program

December 10, 2009

List of Acronyms

Benchmark - Benchmark Environmental Engineering & Science, PLLC

CAMP - Community Air Monitoring Plan

COCs - constituents of concern

CPP – Citizen Participation Plan

CRA - Conestoga-Rovers & Associates

ESA – Environmental Site Assessments

FER - Final Engineering Report

GCL - geo-synthetic clay liner

HASP - Health and Safety Plan

IRM - Interim Remedial Measures

JSA – Job Safety Analysis

mg/kg - milligrams per kilogram

NUS - NUS Corporation

NYCRR - New York Codes Rules and Regulations

NYSDEC - New York State Department of Environmental Conservation

NYSDEC-DD - NYSDEC Decision Document

NYSDOH – New York State Department of Health

PAHs - polycyclic aromatic hydrocarbons

PPE – Personal Protection Equipment

PPM – Parts per Million

RAP - Remedial Action Plan

RI/FS - Investigation/Feasibility Study

SMP - Site Management Plan

SRCM – Specifications of Remediation of Contaminated Materials

SVOCs - semi-volatile organics

TAGM – Technical and Administrative Guidance Memorandum

USEPA - United States Environmental Protection Agency

XCG - XCG Consultants, Ltd.

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SECTION 1

Section 1
Introduction

The purpose of this Final Engineering Report (FER) is to provide information regarding the remediation activities conducted on the site in accordance with the June 2005 New York State Department of Environmental Conservation (NYSDEC) Decision Document (NYSDEC-DD). The Site is the Former N.L. Industries property located at 3241 Walden Avenue in the Village of Depew, Town of Cheektowaga, County of Erie, State of New York and is currently occupied by Metro Waste Paper Recovery Inc. (Metro Waste), a member of Norampac Industries, Inc. (Norampac) (Owner). This FER was developed generally in accordance with Section 5.8 of NYSDEC's DER-10 technical guidance document. A site location map is presented as Figure 1.

This report is supported by tables and figures, as-built drawings and an NYSDEC approved Site Management Plan as directed by the NYSDEC FER approval checklist. In addition, all remediation related executed manifests, analytical data and site photographs will be submitted to the NYSDEC as a separate data submittal in a NYSDEC approved electronic format.

1.1 Project Background

The subject property was first developed for industrial use in 1892. Past on-site activities have included brass foundry operations, conducted between 1892 and 1972 (i.e. 80 years), smelting operations (carried out in the early part of the century), and the processing of babbitts. These operations were performed by various companies within the eastern section of the property.

Waste produced by operations at the site, including the dredged material from a former settling lagoon, was apparently spread throughout the property. Waste foundry sands were also potentially disposed of on-site. These historical activities have caused the presence of elevated levels of lead, zinc, and copper to be present within the fill material.

In July 1999, Norampac implemented an Interim Remedial Measures (IRM) program within the central and western sections of the site. The IRM reportedly consisted of constructing a hydroseeded-topsoil cover and erecting a chain link fence surrounding this area. These interim remedial measures were carried out to eliminate potential direct human exposure with the metals impacted fill.

The December 2004 Remedial Investigation/Feasibility Study (RI/FS) report proposed seven remedial alternatives for managing the impacted fill material at the site. As discussed in the June 2005 NYSDEC-DD, the NYSDEC, as part of their evaluation of the proposed alternatives, selected soil consolidation and capping as the remedial remedy for the site. The NYSDEC selected remedy consisted of the excavation of impacted fill material from the western section of the property for the consolidation on the central section of the site followed by the construction of a 1.1 acre containment cell. In addition, surface cover systems (i.e. asphalt, concrete, 12-inches of clean fill) would be placed on other areas where impacted fill material was exposed at the surface.

NYSDEC concluded that this remedy would virtually eliminate any human exposure though direct contact to the impacted fill and that inhalation of air-borne particles would

be prevented as wind scouring of exposed surface soils would no longer occur. The implementation of this strategy also required the installation of several new cover systems and the continued maintenance of existing systems.

In December 2004 Metro Waste paved the eastern section trucking yard to provide a better driving surface for the trucks that entered the site daily to load and unload shipments. The completion of the paving of the trucking yard was utilized as a cover system to limit public exposure to the identified constituents of concern (COCs) as identified within the December 2004 RI/FS.

In accordance with the June 2005 NYDEC-DD and as detailed within this report, site remedial activities, specifically the excavation and reuse of approximately 7,500 cubic yards of impacted soil/fill material from within the undeveloped western section of the site to construct a containment cell within the central portion of the site, were completed in September 2008. Remedial activities also included the removal of rail ties and covering a portion of the site known as the “rail siding” area with an asphalt cover system.

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SECTION 2

Section 2
Site Description

This section presents a brief summary of the property description, and its physical and environmental conditions.

2.1 General

The subject property is located at 3241 Walden Avenue in Depew, New York, which is a suburb to the east of Buffalo. The property is situated on the south side of Walden Avenue, approximately 580 feet west of the center line of Transit Road. The property is legally described as Part of Lot 68, Township 11, Range 7 of the Holland Land Company's Survey in the Village of Depew, Town of Cheektowaga, County of Erie. Metro Waste Paper Recovery Inc. (Metro Waste) currently operates a paper recycling facility at the site.

2.2 Site Location

The subject property is approximately 7.5 acres in size. The site is located in a mixed commercial/industrial and residential area. Commercial/ industrial properties adjoin the east and west sides of the subject site. The properties located across the street, on the north side of Walden Avenue, are a mixture of residential and some commercial sites (e.g. restaurant). The south side of the property is bordered by railway tracks elevated on a berm, while a concrete mixing plant is situated further to the south. The topography of the subject property and immediate surrounding area has a generally flat grade. The facility is currently used to operate paper fiber recycling activities, and Tighe & Bond understands that it will continue to be used for industrial purposes.

The subject property is currently zoned as M-1 (light industrial). Additional information on zoning requirements (i.e. setbacks, etc) for the property is provided within the ALTA survey prepared by Nussbaumer & Clarke, Inc. of Buffalo, NY which is included as Plan A to this report.

2.3 Site Boundaries

As referenced in a Commitment for Title Insurance issued by Ticor Title Insurance Company order number: 5008-25273 with an effective date of December 30, 2008, the land referred to in the Commitment is described as follows:

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, with the buildings and improvements thereon erected, situate, lying and being in the town of Cheektowaga, Village of Depew, county of Erie and State of New York, being part of lot 68, township 11, range 7 of the Holland Land Company's Survey, bounded and described as follows:

Beginning at a stone monument in the southerly line of the Ellicott Road, now known as Walden Avenue at a distance of 584.42 feet westerly from the point of the "Transit Line" or the centerline of transit road; running thence westerly along the said southerly line of Walden Avenue 1513.6 feet to the northwesterly corner of lands conveyed to Charles A. Finnegan by George W. Wickersham and Edward J. Hancy, as executors of the last will and testament of Mary A.P. Draper, deceased, dated May 5, 1922 and recorded in Erie County Clerk's office in Liber 1634 of deeds at page 96; thence southerly at right angles

to the southerly line of Walden Avenue a distance of 173.16 feet to the northerly line of lands conveyed to the New York Central and Hudson River Railroad Company by deed recorded in Erie County Clerk's office in Liber 301 of deeds at page 202; thence easterly and along the north line of lands so conveyed to aforesaid railroad by aforesaid deed 1511.13 feet; thence northerly in a straight line at right angles with the preceding course 259.18 feet to the point of beginning.

A copy of the ALTA survey prepared by Nussbaumer & Clarke, Inc. of Buffalo, NY is included as Plan A to this report.

2.4 Site Description

Metro Waste currently operates paper fiber recycling activities at the site. Operations are primarily limited to the eastern and central sections of the site while the western section of the site consists of vegetated open space and a stormwater detention pond. Paper fiber recycling has been conducted on the site by various companies since 1974.

For the purposes of this report the property has been primarily subdivided into three sections as depicted on Figure 2. These property sections are identified as the eastern section, the central section, and the western sections of the site.

2.4.1 Eastern Section

The eastern section of the site contains a majority of the site's improved structures, including the main plant and office building, a scale house, and a small storage building. In addition, the eastern section of the site also contains the trucking yard, the former "rail siding" area, and a parking lot.

The main plant and office building are estimated to occupy an area of approximately 63,400 ft^2. The east side of the property is paved with asphalt for employee parking. A truck loading/unloading and trailer parking area is located west of the building. In November 1999, the trucking yard was re-surfaced with new gravel. According to Norampac, approximately 400 tons of gravel was imported to the site in order to provide a minimum cover of approximately 3 inches across the trucking yard. In December 2004, Metro Waste paved the trucking yard to provide a better driving surface for the trucks that entered the property on a daily basis to load and unload shipments. The existing granular surface was considered a sufficient sub-base and was graded prior to installing the asphalt, which consisted of 4.5 inches of binder coat and 1.5 inches of asphalt topcoat. In addition to the asphalt, a new concrete apron, approximately 6 inches thick, was constructed adjacent to the west side of the building. In addition, the area identified as the former "rail siding" area was also paved with 6 inches of asphalt (4 inches binder coat and 2 inches top coat) on August 15, 2008 as part of the NYSDEC-DD.

2.4.2 Central Section

The central section of the property contains the containment cell that was constructed as part of the NYSDEC-DD. Further details on the construction of the containment cell are provided in Sections 5 and 6 of this report. This area is now used as a parking area for Metro Waste. The former lagoon and marsh area were also formerly located along the southern side of this section of the site.

2.4.3 Western Section

The area between the central section of the property and the west property line is identified as the western section of the site. The western section of the site is currently comprised of undeveloped land and a stormwater detention pond.

Soil remediation activities, as detailed in Section 5 of this report, consisted of the excavation of impacted soils from the western (undeveloped) section of the site and the consolidation and construction of a containment cell within the central portion of the site by utilizing a portion of the excavated soils. These activities were completed utilizing the residential use soil cleanup of 400 milligrams per kilogram (mg/kg), as the targeted remedial objective (New York Codes Rules and Regulations (NYCRR) Soil Cleanup Objectives (6 NYCRR Part 375)). Excavation and consolidation activities were initiated on October 22, 2007, temporarily suspended from February 22, 2008 to May 5, 2008 due to weather conditions, and were completed on September 12, 2008.

2.5 Site History

The subject property was first developed for industrial use in 1892. Past on-site activities have included brass foundry operations conducted between 1892 and 1972 (i.e. 80 years), smelting operations carried out in the early part of the century, and the processing of babbitts. These operations were performed by various companies which include:

- Buffalo Brass Company (1892 – 1899) had operations along eastern section of the site.
- Empire Smelting Company (early 1900's) conducted operations within the area of the current trucking yard.
- Magnus Metal Corporation (1899 - 1936) which acquired a portion of the subject property from Buffalo Brass in 1899 and continued the brass foundry operations until 1936.
- National Lead Company (1936 – 1972) acquired the entire property and operations from Magnus Metal Corporation. The name Magnus remained with the company, and was called Magnus Metal, a Division of National Lead Company National Lead Company eventually changed its name to NL Industries Inc. N.L. Industries vacated the site in 1972.

Brass is an alloy of copper and zinc while babbitt is formed from an alloy of various metals including lead and copper. Waste produced by these historic operations, including dredged materials from the former settling lagoon, were apparently spread throughout the property. Waste foundry sands were also potentially disposed of onsite. These historic activities explain the elevated levels of lead detected in the onsite fill material.

2.6 Geologic and Hydrogeological Conditions

2.6.1 Regional

The subject property is located in Erie County, which is comprised of two physiographic provinces. The northern half and western edge of Erie County is situated in the Erie-

Ontario lake plain province while the southern portion is comprised of the Allegheny Plateau province. The study area is located in the Erie-Ontario lake plain province.

With the exception of areas near the major drainage ways, the Erie-Ontario Plain has little significant relief and its topography is typical of an abandoned lakebed. The elevation slopes upwards to the south to southeast, starting from approximately 569 feet above mean sea level at the Lake Erie shoreline. The study area is situated at approximately 676 feet above mean sea level.

Erie County is underlain by bedrock of the Upper Silurian and the Middle and Upper Devonian periods. The bedrock formations are in bands with an east-west alignment. The oldest formations are located in the northern section of Erie County and become younger towards the south. Bedrock underlying the county is relatively flat, but dips approximately 50 feet per mile to the southwest.

The City of Buffalo is underlain by the Onondaga Limestone, which is the lowest formation of the Devonian period in this area. The Hamilton Group is situated above and to the south of the Onondaga Limestone. This formation consists of shales and limestones in a band approximately 4 miles wide. Depew, which is a suburb to the east of Buffalo, is located near the border of the Onondaga Limestone and Hamilton Group.

The overburden soil is comprised of the Odessa silt loam, which is nearly level (0 to 3 percent slope) and is somewhat poorly drained. This soil contains a high clay content. The surficial layer is typically very dark greyish-brown silt loam less than 1 foot thick. The subsoil is a mottled silty clay in the upper portion and mottled reddish-brown silty clay in the lower part. The substratum consists of a varved reddish-brown, grey, or reddish-grey silty clay. This silty clay acts as a vertical migration barrier of contaminants present at surface.

2.6.2 Site Specific

The site-specific hydrogeology was determined from the various Phase 2 Environmental Site Assessments (ESAs) conducted at the subject property, including the subsurface investigation carried out as part of the RI/FS. The subsurface conditions at the various portions of the site are briefly summarized in this section. In general, the shallow fills across the site consist of varying types of fill material overlying a native silty clay stratum. Bedrock was not encountered in any of the deep boreholes drilled across the entire site (26 feet was the deepest borehole advanced).

In this report, fill material is defined as surficial soils of varying grades, such as sand, gravel, silty sand, and sandy silt. Further, fill material that has been mixed with metal waste (e.g. foundry sands, smelting residues, babbitt residues, process water residues, etc.) produced from decades of historical on-site industrial operations is referred to as impacted fill. The metal waste produced by the foundry operations, smelting operations, and processing of babbitts, including the dredged material from the former settling lagoon and foundry sands, was apparently mixed and spread throughout the property. As a result, the fill material across the site, which was originally clean, became impacted.

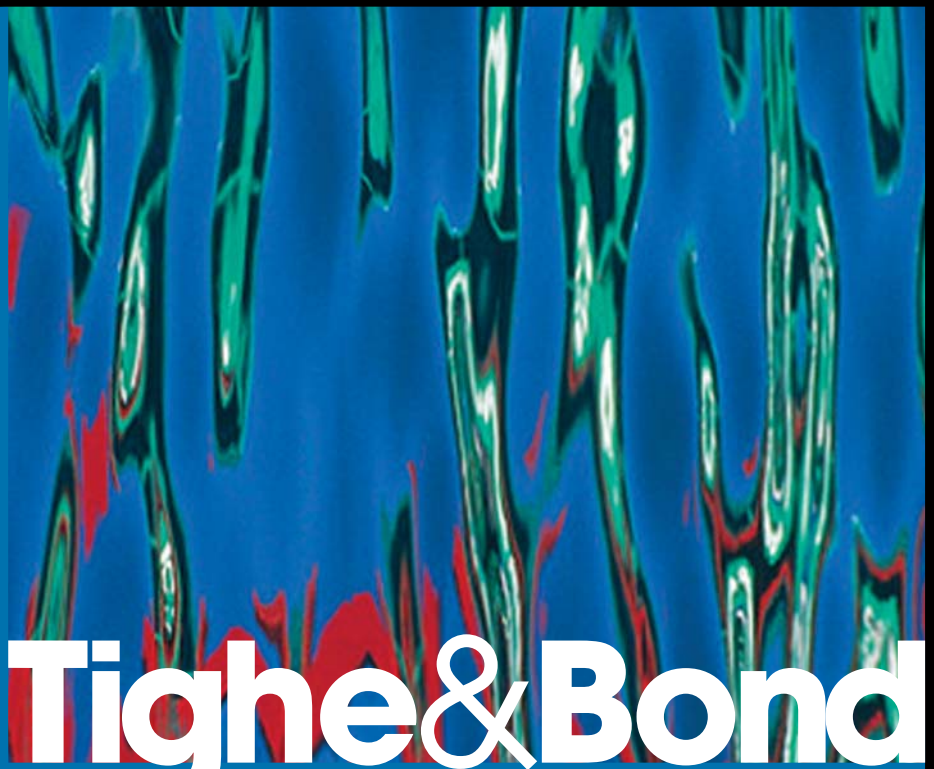
The impacted fill encountered at the western section of the site consisted of sand and gravel fill mixed with silty clay, and the metal waste produced by the historic site operations. Brick and concrete fragments were also encountered within the impacted fill. The depth of the impacted fill at the western section of the site was generally

between approximately 2 to 3 feet below grade. The impacted fill is underlain by a native silty clay stratum. Occasional pebbles and gravel are present within the silty clay. The consistency of the native shallow soil unit increased from very stiff to hard with depth, and became less hard as the depth approached the shallow water-bearing zone which was encountered at a depth of ~15 feet below grade. The native silty clay was generally the same throughout the property.

Groundwater flow conditions at the site have been previously determined by the installation and gauging of seven groundwater monitoring wells that were located throughout the property prior to remedial efforts. Based on information obtained from the previously existing wells, there appears to be at last two different groundwater layers present beneath the site, and are separated by the top of the stiff native silty clay layer. Perched water has been encountered within the fill material at various drilling locations; however, the natural shallow groundwater-bearing zone is situated in the native silty clay. The low hydraulic conductivity of the silty clay causes infiltrated surface water to remain "perched" within the fill layer. This perched water appears to be sporadic and is not present in a continuous layer throughout the property. The upper portion of the silty clay was damp to moist and the consistency is stiff to hard (i.e. not saturated). This soil unit becomes soft and saturated at a greater depth (approximately 15 feet).

Based on historic water level measurements taken on two separate gauging occasions, groundwater at the site is estimated to flow in a northwesterly direction towards Scajaquada Creek which is located approximately 0.25 miles to the north of the site.

Groundwater in the area is not used for drinking purposes. The Village of Depew is serviced by municipal water, which is drawn from Lake Erie.



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SECTION 3

Section 3
Regulatory Background

The nature and extent of contamination at the subject property were characterized by carrying out several investigations, beginning in 1998 and culminating with the completion of this FER report.

3.1 Previous Investigations

Environmental investigation activities were initiated on the site in the mid-1980s. NUS Corporation (NUS) conducted the first environmental investigation of the subject property for the United States Environmental Protection Agency (USEPA). NUS completed an off-site reconnaissance of the property in early-1986 and prepared a report entitled "Potential Hazardous Waste Site Preliminary Assessment, N.L. Industries, Inc., 3241 Walden Avenue, Depew, NY, EPA Site ID Number NYD980531636." On March 31, 1987, NUS conducted a site inspection, on behalf of the USEPA, and collected three sediment and four soil samples for laboratory analyses. Elevated concentrations of several polycyclic aromatic hydrocarbons (PAHs) and metals (e.g. lead, copper, and zinc) were detected in the surficial soils. The results of this investigation are summarized in the NUS report entitled "Site Inspection Report, N.L. Industries/Buffalo Plant, Depew, New York," dated July 29, 1988.

In early 1998, NYSDEC approached Norampac regarding the elevated PAHs and metals detected at the subject property in 1987, and requested that Norampac carry out a subsurface investigation. Since that time, a number of subsurface investigations have been conducted at the site. These investigations are summarized as follows:

- Site Inspection Report, N.L. Industries/Buffalo Plant, Depew, New York, NUS, July 29, 1988.
- Draft, Limited Phase 2 Environmental Site Assessment, 3241 Walden Avenue, Depew, New York, XCG Consultants, Ltd. (XCG), February 10, 1999.
- Draft, Limited Phase 2 Environmental Site Assessment, Former Oil Tanks Area, 3241 Walden Avenue, Depew, New York, XCG, February 10, 1999.
- Draft, Additional Phase 2 Environmental Site Assessment, 3241 Walden Avenue, Depew, New York, XCG, May 18, 1999.
- Limited Phase 1 Environmental Site Assessment, Former N.L. Industries Site, 3241 Walden Avenue, Depew, New York, XCG, June 11, 1999.
- Draft, Off-Site Surficial Soil Investigation, 3241 Walden Avenue, Depew, New York, XCG, July 26, 1999.
- Final Remedial Investigation/Feasibility Study for the Former NL Industries Site in Depew, NY, XCG, December 21, 2004.
- Remedial Action Plan (RAP), Tighe & Bond, December 2006.

- Specifications for the Remediation of Contaminated Materials (SRCM), Tighe & Bond, August 2007.

- Groundwater Investigation Report, Conestoga-Rovers & Associates (CRA), June 2009

- Test Pit Investigations Findings Letter, Benchmark Environmental Engineering & Science, PLLC, June 22, 2009

3.2 Previous Remedial Actions

In July 1999, Norampac implemented an Interim IRM program within the central and eastern sections of the site. The IRM consisted of the import and placement of approximately 400 tons of gravel to the site to create a minimal cover of approximately 3 inches over the trucking yard and parking area within the eastern section of the site and the placement of 4 to 5 inches of topsoil and hydro-seeding of the central section of the site. The covers were installed in order to provide a temporary measure to reduce potential exposure to the impacted fill. In addition to the placement of the covers, a chain link fence was erected around this area to minimize trespassing on the site.

In December 2004, Metro Waste installed new concrete truck loading pads, a new scale pit and paved the eastern section trucking yard to provide a better driving surface for the daily trucks that enter the site to load and unload shipments. The completion of the concrete pads and paving of the trucking yard were utilized as cover systems to limit public exposure to the identified COCs as identified within the December 2004 RI/FS.

3.3 Enforcement Actions

The NYSDEC and Norampac, Inc. entered into a Consent order on July 14, 1999. The order obligated the responsible parties to address on-site impacted soils and to conduct an IRM and a RI/FS. Upon completion of the RI/FS in 2004, the site was entered into New York State's Brownfield Cleanup Program in order to implement remedial measures in accordance with program requirements.

3.3.1 Off-Site Impacts

N.L. Industries entered into an Administrative Order with the United States Environmental Protection Agency (EPA) in the fall of 2004 to investigate and remove lead and impacted soil from approximately 30 off-site residential properties north of the property. In 2005, N.L. Industries began a soil removal action to address lead contamination on 36 residential properties requiring remediation (i.e., at locations that exceed 400 mg/kg). These properties, known as the Phase 1 area, were in the area bounded by Walden Avenue to the south, Harvard Avenue to the north, and Transit Road to the east. Work was substantially completed by late 2005, and was fully completed in 2006.

In April, July, and November of 2005, the US EPA conducted additional soil sampling on additional residential properties in order to better define the extent of lead contamination. Additional soil samples were collected on 71 residential properties to the north and east of the area initially delineated for remediation. Findings from sampling activities conducted in the Phase 2 area identified that a majority of the Phase 2 properties (59 out of 71) contained concentrations of lead levels in residential soil that

exceeded the EPA lead standard for bare soil and the New York State Soil Cleanup Objective for residential land use (400 mg/kg).

In a September 2008 letter to the USEPA, the New York State Department of Health (NYSDOH) recommended that measures be taken by N.L. Industries to reduce the level of exposure at these properties.

In October 2008, EPA directed delineation soil sampling at 15 additional properties within the Phase 2 area, which identified 5 properties or property parcels with lead impacted soil at concentrations greater than 400 mg/kg.

The EPA is currently conducting remediation on 66 of the Phase 2 properties were lead soil impacts exceed 400 mg/kg. Remediation activities include, removal of trees and shrubs, excavation of impacted soil, post excavation sampling, backfilling with certified clean fill, cover with certified clean topsoil, installation of sod, replacement of trees and off-site disposal of impacted soil.

The EPA plans on continued removal actions at the Phase 2 parcels. Remediation work is anticipated to continue until November 2009, when weather conditions are suitable for the excavation activities. Soil removal will be suspended during the winter months from November to March/April due to snow cover and freezing temperatures.

3.4 On-Site Impacts - NYSDEC Decision Document

The December 2004 RI/FS proposed seven remedial alternatives for managing the impacted fill material at the site. As discussed in the June 2005 NYSDEC-DD, the NYSDEC, as part of their evaluation of the proposed alternatives, selected soil consolidation and capping as the remedial remedy for the site. The NYSDEC selected remedy consisted of the excavation of impacted fill material from the western section of the property for the consolidation on the central section of the site followed by the construction of a 1.1 acre containment cell. In addition, surface covers systems (i.e. asphalt, concrete, 12-inches of clean fill) would be placed on other areas where impacted fill material was exposed at the surface.

NYSDEC concluded that this remedy would virtually eliminate any human exposure though direct contact to the impacted fill and that inhalation of air-borne particles would be prevented as wind scouring of exposed surface soils would no longer occur. The implementation of this strategy also required the installation of several new cover systems and the continued maintenance of existing systems.

3.5 Remedial Action Plan

In December 2006, Tighe & Bond submitted a RAP to the NYSDEC for implementing the NYSDEC-DD selected remedial alternative for review and approval. The RAP was deemed acceptable and approved by the Department via a letter dated January 22, 2007. The following sections describe the elements of the remedial actions that were conducted on the site. A summary of the implemented remedial actions is provided in Section 5.

3.5.1 Soil Excavation

Soil excavation activities conducted at the site as part of the RAP consisted of the excavation of impacted soils from the western (undeveloped) section of the site and the consolidation of the soils as part of the construction of a containment cell within the central portion of the site by utilizing a portion of the excavated soils in accordance with the NYSDEC-DD.

3.5.2 Soil Sampling and Analysis

Tighe & Bond provided oversight of the remediation and as well as collected confirmation soil sampling for submittal to a New York State certified laboratory (Test America of Buffalo, New York) for the analyses of total lead in order to confirm that after excavation the remaining lead concentrations in on-site soils within the designated remediation areas were below the residential soil use cleanup criteria of 400 mg/kg. As directed by the NYSDEC, a small percentage (~10%) of the collected soil samples were also submitted for the analysis of semi-volatile organic compounds (SVOCs).

In order to track the remedial efforts efficiently, the western remediation area was broken into 30 foot by 30 foot grids. Each grid was excavated to the designated depth at which time a confirmation soil sample was collected from the floor of the excavated grid. Soil samples were collected from the base of each of the excavations on a grid basis. Wall soil samples were only collected from the perimeter grids, which were typically located along the property boundary. Wall samples were collected at a 60 foot spacing interval. Figure 3 depicts the locations of remediation grids and the final topographic survey of the remediation area at the time the closure samples were collected.

Analytical results from the soil sampling activities were compared to the residential use soil cleanup objectives as specified in Title 6 Part 375 of the NYCRR Soil Cleanup Objectives (6 NYCRR Part 375) for lead and SVOCs.

3.5.3 Construction of a Containment Cell

Upon completion of the consolidation and compaction of the impacted fill material a surface cap consisting of imported clean fill, a geo-synthetic clay liner (GCL) and soil/vegetative or asphalt cover was placed over the impacted material. A ramp was constructed from the trucking yard to the top of the containment area to allow access for future parking on the top of the containment cell. The height of the impacted fill materials, prior to cap construction was 6 feet above ground.

3.5.4 Imported Backfill Material

Backfill material was brought into the site for use as fill for both the area of excavation and as cover material for the cap. Backfill material was provided from FREY Sand and Gravel of Alexander, NY and Lafarge Genesse Aggregate Plant in Lancaster, NY. Prior to accepting the borrow material as backfill, the material was analytically tested for constituents of concern. Analytical results from the testing of the material was reviewed and approved by both the Tighe & Bond and the NYSDEC for use as backfill for the site.

Approximately 31,279 tons of backfill was imported to the site as part of the remediation process. Copies of the analytical results from testing of the backfill material are provided within Appendix A.

3.6 RAP Implemented Plans

The RAP called for development and implementation of a Health and Safety Plan (HASP), a Citizen Participation Plan (CPP) and a Community Air Monitoring Plan (CAMP). Discussion on the implementation of these plans is provided below.

3.6.1 Health and Safety Plan

AAA Environmental, Inc. (AAA) of Syracuse, New York prepared and implemented a Site specific HASP for the project (entitled AAA Environmental, Inc. Site Specific health and Safety Plan and dated October 24, 2007) based on an evaluation of project and site-specific hazards. Staff members were oriented on the requirements of the HASP, including specific safety-related roles and responsibilities. Periodic safety inspections of equipment, personal protective equipment (PPE), site conditions, and worker behaviors were conducted throughout the course of the project by the contractor. Any safety-related incidents or near misses were investigated and discussed to capture "lessons learned" and prevent future similar incidents from occurring. Throughout the project, any changes in site conditions or our understanding of project hazards resulted in appropriate revisions to the HASP to make it a "living document". These revisions were shared with all project team members upon implementation.

3.6.2 Citizen Participation Plan

Tighe & Bond and Norampac implemented a CPP in accordance with the requirements described in NYSDEC's "Citizen Participation in New York's Hazardous Waste Site Remediation Program: A Guidebook," dated June 1998. As part of the CPP a Fact Sheet was produced in order to inform the local residents and businesses of the proposed remedial work and how the NYSDEC will inform and involve them during the investigation and remediation of the site. The CPP was completed in August 2007 and subsequently submitted to neighboring property owners.

3.6.3 Community Air Monitoring Program

Tighe & Bond prepared a CAMP to protect off-site receptors, such as residential occupants and workers at commercial facilities during the remedial activities. The preparation of the CAMP was a requirement of the NYSDOH for contaminated soil and excavation and handling activities.

CAMP related site activities included real-time monitoring of particulate concentrations upwind and downwind of the work area. Samples were collected at selected locations on a daily bases anytime impacted soils were being disturbed at the site. A copy of air monitoring data collected during the project is included within Appendix A.

3.7 Permits and Approvals

3.7.1 County of Erie

Precipitation water which accumulated within the remedial excavation areas was discharged to sanitary sewers under a discharge permit through The County of Erie Department of Environment & Planning, Erie County Sewer District No. 4. A copy of the approval letter from the County is included within Appendix A.

3.7.2 Village of Depew

The attorney for Norampac met with the Village of Depew on February 10, 2009 to discuss certain issues of concerns related to the project that were identified by Mr. Nosek of the NYSDEC in a letter dated January 14, 2009. Some of the concern items listed within the letter were related to the retention pond, the stormwater runoff and the landscaping for the site. Representatives from the NYSDEC and the NYSDOH were also present during the meeting.

Upon conclusion of the meeting it was concluded that no Village review(s) or approval(s) were necessary for the project, as confirmed in correspondence to the Village, dated March 3, 2009, a copy of which was forwarded to and now included in the public files for the Village and the Department, and that Norampac was in compliance with NYSDEC requirements.

3.8 Remedial Goals

The goals of the remedial activities, as described in the NYSDEC-DD, were to eliminate or reduce to the extent practicable:

- Exposures of persons at the site to lead impacted fill material
- The release of COCs from impacted fill material into groundwater that may cause exceedances of groundwater quality standards
- The release of COCs from impacted fill material into surface water through stormwater erosion
- The release of COCs from impacted fill material into the air through wind borne dust

Further, the remediation goals for the site include attaining to the extent practicable:

- Ambient groundwater quality standards.
- Prevent human ingestion, contact and/or inhalation of soil having lead concentrations in excess of 400 mg/kg.

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SECTION 4

Section 4
Nature and Extent of Impacted Fill

4.1 Constituents of Concern

Based on analytical data from previous investigations and from information provided within the RI/FS and NYSDEC-DD, COCs in the soil/fill material within the eastern and central sections of the site consists primarily of SVOCs and inorganic metals (primarily lead). A more in-depth discussion on COCs, and the nature and extent of impact present is presented within the RI/FS.

4.2 Nature of Impact

A majority of the fill material located within the eastern and central sections of the site contains concentrations of metals, primarily lead, exceeding the 6 NYCRR Part 375 Soil Cleanup Objectives for unrestricted use. The depth of the fill material within the eastern and central sections of the property is generally encountered at a depth of 2 to 6 feet below grade.

In addition to metals, residual SVOCs were also detected within the fill material from the eastern and central portions of the site but to a much lesser extent than metals. Generally, the residual SVOC impacts were typically found within the same areas as the metal impacts.

Prior to remediation, impacted lead fill material was also identified in the western section of the property at elevated concentrations at depths to approximately 4-5 feet below grade.

4.2.1 Gas Cylinders

Copper cylinders, reportedly containing methyl mercaptan gas, have previously been encountered during excavation activities at the site. During June 4 and 5, 2009, the Property Owner contracted Benchmark Environmental Engineering & Science, PLLC (Benchmark) of Lackawanna, NY to conduct a test pit investigation within the eastern section of the site in order to attempt to identify if additional cylinders existed on the site. During the investigation buried cylinders were encountered at several locations within the eastern section of the property. A copy of the June 22, 2009 report is included within the Site Management Plan (SMP).

4.3 Extent of Impact

For the purposes of this report, all fill material encountered within the eastern and central proportions of the site shall be considered as impacted with site COCs. Although actual concentrations of COCs may vary across the site due to the fill materials heterogeneity, it will be assumed that site related COCs are present at elevated concentrations until/unless specific characterization of the designated area has been conducted.

The underlying very stiff to hard native silty clay has been previously identified to be minimally impacted. This native material was found to act as an effective barrier against

the vertical migration of site COCs from within the upper fill material into lower native formations and underlying groundwater.

The following subsections provides a brief summary of the degree and extent of lead impacted fill within the eastern portions of the property that were identified as part of the RI/FS investigation activities. A more detailed description of degree and extent of the impacted fill is provided within the RI/FS.

4.3.1 Trucking Yard

Metal-impacted fill encountered within the trucking yard consisted of sand and gravel at the surface becoming a mixture of sand, gravel, and silty clay with depth. The depth of the metal-impacted fill in this area generally ranges between approximately 4 and 5 feet below grade, and was encountered as deep as 6 feet.

The analytical results of soil samples historically collected from the fill material within this area contained concentrations of lead ranging from 4,900 mg/kg to 31,000 mg/kg.

4.3.2 Parking Lot

The underlying metal-impacted fill material located within the parking lot along the east side of the property, is comprised of coarse sand with gravel, ranged between approximately 1.5 and 2.5 feet below grade. The metal-impacted fill within the former basement area is approximately 10.5 to 11.5 feet below ground surface, where refusal was encountered.

Historical sampling in the parking lot was conducted in two different areas. The initial testing focused on the south side of the parking lot. Three oil tanks were formerly stored in this area, two of which were located below grade in a concrete-lined vault. The second investigation was carried out from the center to the north end of the parking lot to determine the general quality of the fill material underlying the asphalt.

Soil samples from two boreholes drilled at the south end of the parking lot were collected from the material used to backfill the former oil tanks basement. The concentration of lead was much lower in this fill than the fill located elsewhere on the property. Lead was detected in these two samples at 18 parts per million (ppm) and 8 ppm, respectively.

Soil samples from two boreholes drilled within the south-central and southwest of the former tank area were collected and analyzed for lead. Lead was detected in these two samples at 1,500 ppm and 1,200 ppm.

Two boreholes were drilled in the north to central portions of the parking lot. Lead was detected in the fill material in these two boreholes at 22,000 mg/kg and 6,000 mg/kg, respectively.

4.3.3 Former Rail Siding Area

The overburden material along the former rail siding area consisted of rail ballast underlain by metal-impacted fill, which was comprised of sand and gravel, and silty clay mixed with metal waste from past on-site industrial operations. The metal-impacted fill, encountered at a depth ranging between approximately 3 to 4 feet below grade, was dark brown to black in color and was saturated with perched water.

Historical soil samples collected during previous investigations from within this area identified the presence of lead within the fill material at concentrations raging from 1,900 mg/kg to 13,000 mg/kg.

4.3.4 Under Building

Soil samples collected through the building floor slab were collected as part of the RI in order to fill-in the data gap in this area of the property. The boreholes were placed at different sections of the building in an effort to develop an understanding of the subsurface conditions beneath the structure.

Metals analyses were conducted in the fill material at seven locations. In the borehole located in the southeast area of the building, the fill material contained a lead concentration of 250 mg/kg; however, the lead concentrations in the fill material at the other locations ranged from 860 mg/kg to 27,000 mg/kg. Based on these results, a majority of the fill material beneath the floor slab is expected to contain elevated concentrations of lead above the Technical and Administrative Guidance Memorandum (TAGM) 4046 Background Value.

4.3.5 Western Area

Based on the laboratory analysis of samples collected during previous investigations, prior to remediation, various pockets of lead impacted fill material were identified throughout this section of the property.

Metals analysis conducted from 10 soil borings and 11 surficial samples varied from 210 mg/kg to 20,000 mg/kg. There was no clear delineation of high lead concentration areas. Rather, the elevated lead concentrations within the impacted fill material appeared scattered thought the western area. It was opinioned in the RI/FS that the sporadic nature of the lead impacts was due to random historical placement and/or grading of the western portion of the site. Laboratory analysis of soil samples collected from within the native silty clays was indentified to contain concentrations of total lead ranging from 13 mg/kg to 28 mg/kg.

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SECTION 5

Section 5
Remedial Activities

The goals of the proposed remediation activities within the western and central sections of the site, as discussed within the NYSDEC-DD, were to eliminate or reduce to the extent practicable:

- Exposures or persons at the site to lead impacted fill material
- The release of COCs from impacted fill material into groundwater that may cause exceedances of groundwater quality standards
- The release of COCs from impacted fill material into surface water through stormwater erosion
- The release of COCs from impacted fill material into the air through wind borne dust

Further, the remediation goals for the site also included attaining to the extent practicable:

- Ambient groundwater quality standards
- Prevent human ingestion, contact and/or inhalation of soil having lead concentrations in excess of 400 mg/kg

In order to achieve the listed objectives, the NYSDEC selected the RI/FS remedy of soil consolidation and capping.

5.1 NYSDEC Selected Remedy

The NYSDEC selected remedy consisted of a combination of excavation and consolidation of soil onsite along with the placement of surface cover systems at locations where impacted fill was to remain. Different cover systems would be utilized at different locations of the property depending on the contemplated land use at that location. A description of the cover systems is provided in Section 6.

The NYSDEC concluded that this remedy would virtually eliminate any exposure to the impacted fill material. In addition, inhalation of air-borne particulates would be prevented since wind scouring of impacted fill material which was previously exposed at the surface would no longer occur. Rainwater would run off the caps to on-site catch basins instead of infiltration through the exposed impacted fill material. The surface cover systems would also provide a barrier to contact to the impacted fill, thereby eliminating any dermal uptake to site employees.

5.2 Remedial Scope of Work

The proposed scope of work that was conducted at the site in order to accomplish the selected remedy design is summarized as follows:

- Selected and obtained approvals for off-site soil disposal of impacted fill at permitted facilities
- Delineated proposed remediation areas
- Decommissioned monitoring wells
- Conducted air monitoring to determine real-time dust concentrations in order to implement mitigative measures if the action levels were exceeded
- The excavation of impacted fill material from within the west undeveloped area to the top of the native silty clay unit
- Removal of accumulated sediment within the storm sewer that extended from the Site to the outfall at Scajaquada Creek
- Removal and proper disposal of buried gas cylinders when encountered during excavation activities
- The movement of excavated impacted soil from the western section of the property to the central section for placement and compaction
- Collection of verification soil samples from the walls and base of the excavation areas within the western section of the site for submittal of laboratory analyses
- Installation of cover systems over the consolidated and compacted impacted fill material
- Backfilled western section of site with imported virgin fill material
- Placed cover system over the former “rail siding” area.

Further information regarding the remedial activities conducted at the site is provided in the following sections.

5.3 Summary of Remediation Activities

Excavation and consolidation activities were initiated on October 22, 2007, temporarily suspended from February 22, 2008 to May 5, 2008 due to weather conditions, and were completed on September 12, 2008. AAA conducted all remedial activities. Tighe & Bond maintained a resident engineer/inspector on site during construction activities.

Weekly progress meeting were conducted in order to discuss the activities that were conducted for the week and the anticipated schedule for the following week. Attendees of the meeting typically included a representative(s) of AAA, Cascades Canada Inc. (Cascades), Harter Secrest & Emery, Tighe & Bond, the NYSDEC and the NYSDOH. Copies of the meeting minutes are included as Appendix B.

The following sub-sections summarize the remedial construction activities conducted by month at the site.

5.3.1 October 2007

- Job trailers, machinery, equipment and materials were mobilized to site.
- Initial site clearing activities were conducted which included the installation of site erosion control features. The western section of the Site was cleared of trees and vegetation. Western remediation area was grubbed to remove all vegetation, stumps, logs, roots, debris. Following grubbing, all areas were rough graded. All debris generated from the grubbing process was staged based on debris type, characterized, and properly managed based on characterization results.
- Once erosion controls were installed, the remediation area was gridded into distinct sections measuring approximately 30 by 30 feet. A figure depicting the gridded remedial excavation areas and the final topographic elevations of the remediation area is provided as Figure 3.
- Upon completion of remedial layout, excavation activities were initiated.
- Suitable impacted fill material removed from the remediation grids was relocated to the consolidation area for placement and compaction.
- The five previously installed monitoring wells (MW98-1, MW98-2, MW98-3, MW99-2 and MW99-3) located within the proposed remediation area were abandoned by Buffalo Drilling Company.

5.3.2 November 2007

- The presence of a natural gas line was noted along several of the remediation grids located in the northwestern corner of the western section of the property. Contact with the gas company, National Fuel, indicates that the gas line is located within clean bedding fill.
- The excavation of remediation grids continues.
- Impacted fill from the remediation grids is being placed and compacted within the consolidation area (containment cell). Due to high moisture content of the impacted fill, compaction of the impacted fill material placed within the containment cell does not meet compaction specifications. Norampac discusses alternative compaction techniques with NYSDEC.
- Railroad ties and associated rails along the “rail siding” area are removed.
- Catch basins within the area of the containment cell area are decommissioned by plugging the basins outlets with brick and filling entire basin with concrete.
- Excavation dewatering becomes a large part of the remedial process due to excessive rain/snow fall that is ponding on the native silty clay stratum. Several 21,000 gallon baker tanks are mobilized to the site to temporarily store dewatering fluids in order to allow for settlement of silts/soils suspended within the purged water.

- A sanitary discharge permit is obtained from the Erie County Sewer Authority for the discharge of remediation water into the sanitary system. Prior to discharge, the water is pumped through bag filters to remove any sediment from the waste stream.

- In accordance with the community air monitoring program, air/dust monitoring is conducted around the perimeter of the work zone.

5.3.3 December 2007

- Dewatered surface water is being filtered and pumped directly into the sanitary sewer under the discharge permit. The Backer tanks are cleaned and prepared for removal from the Site.

- Dewatering of surface water within the excavated grid locations proceeds though most of the month due to heavy rain and snow.

- Approximately 2,000 linear feet of the Scajaquada storm system was flushed of sediment cleaning from manhole section to manhole section. Sediment and debris were collected in the downstream manhole utilizing a vacuum truck. Collected sediment and rinse water were filtered on site. Filtered water was discharged to the sanitary sewer. Accumulated sediments were placed within the containment cell.

- Soil capacity to containment cell is over 90% completed. Any additional generated impacted fill not designated for consolidation area was scheduled for removal from site for disposal at approved waste facility.

- Virgin borrowed fill is being brought into the site for use as backfill of closed remedial grid areas. Although virgin, a sample of the material was collected and submitted for laboratory analysis. The analytical result from the sample analysis was provided to NYSDEC. A copy of the analytical data from the characterization sampling is included within Appendix A.

- Remediation excavation has been significantly slowed due to continued presence of surface water within the remediation area and weather conditions.

- Impacted fill not designated for re-use within the containment cell is being removed from the site for disposal at approved waste facility.

5.3.4 January 2008

- Due to the continued high moisture content of the containment cell, it was determined, in conjunction with NYSDEC approval, that the containment cell will be covered/winterized for the winter and the installation of the cover system will be completed during the summer of 2008.

- Dewatering of surface water from the remedial excavation area continues. Excavation of remediation grids continues. Remediation of several of the grids will be excavated up to the natural gas line along the northwestern section of the site.

- Street sweeping activities implemented by contractor to reduce/remove the potential for dragout by trucks from the site onto the public roadway.

- Completed excavation grid areas are backfilled with virgin borrowed fill material.

- Impacted fill material from remediation areas is being temporarily staged onsite and then loaded for disposal to an approved disposal facility.

- By January 29, 2008, all remediation areas, except for the impacted fill located under the staged stockpile and around gas line, have been excavated.

5.3.5 February 2008

- Winterization of the containment cell has been completed.

- As part of the winterization process, the NYSDEC required that the containment cell and associated liner/cover be inspected on a weekly basis during the winter furlough period. Tighe & Bond prepares inspection checklist for AAA. Metro Waste representative, Tom Derkovitz, conducted the inspections.

- The NYSDEC also requested that they be given 24 hour notice prior to making repairs to winterization liner so they can observe repairs.

- All proposed remedial grid cells have been excavated and sampled except those in proximity to the natural gas line. A figure depicting the location of the remedial grids and sampling locations and the final topographic elevations of the excavation is provided as Figure 3. A table summarizing the analytical results from the closure sampling is provided as Table 1. Copies of the analytical data from the closure sampling activities will be included as separate data submittal as required by the NYSDEC.

- All sampled excavated areas have been backfilled with virgin borrowed fill.

- AAA demobilized off-site on February 22, 2008.

5.3.6 March through April 2008

- Inspections of the containment cell's winterization were conducted by Tom Derkovitz on March 7, 14 and 20, 2008; April 2, 9, 16, 23 and 30, 2008. Copies of the inspection logs are included as Appendix C.

- Repairs to the winterization containment covering were conducted by AAA on March 11, 24 and 27, 2008. Repairs consisted of safety fence maintenance, hay bale replacement and the installation of an additional hay bale/silt fence system around containment area.

5.3.7 May 2008

- AAA remobilized to site on May 5, 2008.

- Winterization materials from covering the containment cell are characterized, determined to be hazardous and scheduled for removal from site.

- Multiple buried gas cylinders are identified during excavation activities along northern section of containment cell. In addition, buried cylinders had been previously identified at the site during the 2004 paving activities were also removed. The cylinders were temporarily drummed onsite prior to disposal. NYSDEC indicated that they had significant concerns associated with the cylinders.

- Buried gas cylinders continued to be uncovered during excavation work along the northeastern area of the consolidation area; therefore, Tighe & Bond developed a Job Safety Analysis (JSA) sheet and prepared a modification to the CAMP in order to address NYSDEC/NYSDOH concerns regarding the removal, storage and transportation of the buried cylinders.

- Soil re-grading and turning of the containment cell continues in an attempt to dry out the soils in order to allow for sufficient compaction and installation of the cover system.

- Standing surface water from backfilled areas within the western section of property was pumped to the sanitary sewer under the existing discharge authorization.

- Soil grading activities are conducted on the closed western sections of the site in order to assist with drying, final grading and seeding.

- Visual demarcation material is placed along the northern sidewalls of the excavation limits within the remediation area.

5.3.8 June 2008

- AAA initiates the construction of the newly proposed detention basin to the west of the containment cell. Further discussion regarding the installation of the detention basin is provided in Section 5.4.3.

- Demarcation fencing is placed on top of the containment cell in order to note beginning of impacted fill material.

- Gas cylinders continued to be removed from the northeastern toe of the containment cell. Waste contractor (CWM Chemical Services) visits site to provide direction on best management practice for preparing the cylinders for removal and disposal.

- Soil re-grading and turning of the containment cell continues in an attempt to dry out the soils in order to allow for sufficient compaction and installation of the cover system.

- The existing asphalt located to the east of the containment cell is removed to allow for preparation of a slope from parking lot to top of containment cell. The asphalt and associated soil was removed and disposed of as hazardous waste.

- A concrete slab was encountered under the asphalt along the toe of the eastern section of the containment cell. The slab was removed and disposed of as hazardous waste.

- Visual demarcation material is placed along the south and western sidewalls of the excavation limits within the remediation area.

5.3.9 July 2008

- A new natural gas line was excavated within the previously sampled and backfilled remediation area for the purpose of relocating the existing natural gas line from along the northwestern section of the site. Upon removal of the old line, remaining impacted fill was excavated and removed from the site. Clean borrow bedding sand was imported to fill around the new gas line. Since the bedding material was a manufactured product, characterization sampling was conducted and the results were provided to NYSDEC. A copy of the analytical data from the characterization sampling will be included as separate data submittal as required by the NYSDEC.

- The excavation area next to the former gas line was filled with borrowed fill and graded.

- Additional gas cylinders were identified and removed during the remedial excavation of the natural gas line.

- The containment cell is rolled and tested for compaction. Further information on final compaction of the containment cell is provided in Section 5.4.1.

- Structural sand material was imported to the site for use as cover on the containment cell. Since the material was a manufactured product, characterization sampling was conducted and the results were provided to NYSDEC. A copy of the analytical data from the characterization sampling will be included as separate data submittal as required by the NYSDEC.

- A 6-inch layer of the structural sand was placed over the containment cell. The immediate northern toe of the cell was not initially covered in order to allow for the installation of drainage lines to and from the detention pond.

- The GCL component of the containment cell cover systems was delivered to the site.

- In a July 18, 2008 correspondence, the NYSDEC grants approval of the construction of the containment cell cover systems and subsequent closure of the containment cell.

5.3.10 August 2008

- The construction of the stormwater retention pond and associated drainage lines have been completed.

- Type 2 modified structural material was imported to the site for use on the containment cell. Since the material was a manufactured product, characterization sampling was conducted and the results were provided to NYSDEC. A copy of the analytical data from the characterization sampling will be included as separate data submittal as required by the NYSDEC.

- The GCL liner was installed over the entire containment cell following design specifications. A layout of the GCL installation is provided as Figure 4.

- Type 2 modified structural material was placed on top of the GCL over the entire containment cell. The Type 2 material was final graded to a thickness of one foot over the containment cell.

5.3.11 September 2008

- The top and eastern slope of the containment cell was paved. Paving consisted of 4-inches of compacted binder coarse asphalt and 2-inches of compacted top coat asphalt.

- Top soil was placed along the northern, southern and westerns slopes of the containment cell. The top soil was hydro seeded as an erosion control methodology.

- On September 12, 2008, AAA demobilizes from site.

- Based on waste manifest data, a total of 16,866 tons of lead hazardous waste was removed from the site for disposal at approved waste facilities. A copy of the manifests and disposal facility weight tickets will be included as separate data submittal as required by the NYSDEC. A summary table which provides information regarding trucking dates, loading weights and disposal facility information is provides as Table 2.

- Based on waste manifest data, a total of 2,420 pounds of gas cylinders were removed from the site for disposal. The cylinders were shipped in bulk at two different times. The first shipment of cylinders was shipped on June 19, 2008 to CWM Chemical Services in Model City, New York for disposal. The second shipment of cylinders took place on September 20, 2008 and was also shipped to CWM Chemical Services in Model City, New York. Copies of the manifests are included on CD within Appendix A.

- Based on totalizer data, a total of 1,970,995 gallons of water was removed from the excavation areas and pumped into the Erie County's sanitary system.

5.4 Changes to Remedial Design

The following section provides a general discussion of significant changes to the original RAP and design documents. Determination of the necessity for the changes was encountered while conducting remediation activities at the Site. All proposed changes were approved by the NYSDEC.

5.4.1 Containment Cell Compaction

As part of the remediation, impacted fill was placed and consolidated within the containment cell. Original bid documents stipulated a 95% compaction criterion for consolidation of the impacted fill based on modified proctor testing. However, due to excessive precipitation and inclement weather conditions during remediation activities and placement of the impacted fill, the moisture content of the fill material became elevated.

The excess moisture within the impacted fill did not allow for 95% compaction to be achieved. A request was submitted to the NYSDEC to delay compaction until the spring/summer when drier conditions were present. NYSDEC approved this request.

After allowing the cell to dry, the top of the cell was recompacted on July 8, 2008, utilizing a 13 ton sheep's foot roller. In general, minimal weaving of the surface material was observed under the static weight of the roller. In addition to the compaction, field density and modified proctor tests were also conducted.

Based on the test results and observations made by Tighe & Bond's geotechnical engineer of the sub-grade under the compactive effort, it was determined that the containment cell was reasonably stable and suitable for cover system construction.

In a letter dated July 9, 2008 from Tighe & Bond to Cascades Canada, Inc., Thomas C. Couture, the designated New York State P.E. for the project certified that the containment cell sub-grade was reasonably stable and suitable for cap construction. The letter further provided that the sub-grade will not significantly impact the cap system and its ability to support tractor trailer loads. A copy of the July 9th letter is included as Appendix D. In a letter dated July 18, 2008, the NYSDEC approved the completion of the closure of the containment cell.

5.4.2 Change in Containment Cell Design

The RAP and original design documents called for the installation of a paved access ramp to the top of the containment cell along the southeastern section of the containment cell as well as the top parking area, while the remaining portion of the containment cell was to be loamed and seeded. Changes to the original design were made by paving the entire eastern slope of the containment cell. This change was requested to allow for better access to the parking area on top of the proposed containment cell thus making the parking area on top of the cell an extension of the existing trucking yard lot with a continuous profile. NYSDEC approved this request.

5.4.3 Installation of Stormwater Retention

The RAP and original design documents called for the top of the containment cell to be graded for drainage and paved with the drainage from the containment cell to be directed towards the existing on-site storm sewers. However, the proposed increase of impervious area created an increase in the peak stormwater discharge leaving the site. In order to reduce this peak discharge to pre-development rates and satisfy NYSDEC requirements, a stormwater detention basin was proposed.

Revised site drawings were submitted to NYSDEC to include a stormwater retention area and associated piping to effectively manage stormwater from the paved surface of the containment cell.

Based on the revised design, stormwater runoff from the top of the capped area will now primarily flow towards the west and northwest, with the exception of the east ramp. Runoff that flows toward the east will be collected by the existing catch basins in the paved parking area. The area flowing to the east has been sized such that the flow to the existing catch basins is the same under post-construction conditions as it was under pre-construction conditions. Runoff that reaches the south and west slopes of the capped area will be directed to the detention basin through site grading. Runoff that reaches the north slope of the capped area will be intercepted by a stone trench and pipe that will direct runoff to the west and into the detention basin. Stormwater runoff

from the western remediated undeveloped area will continue to flow towards Walden Avenue as it was prior to the completion of remedial activities.

The retention pond was constructed at the toe of the west slope of the containment cell. A portion of the asphalt cap flows directly into this pond.

An 8-inch HDPE outlet pipe was installed at the northeast corner of the pond. This outlet pipe helps attenuate peak runoff rate from the pond. The invert of this outlet pipe is set such that the Channel Protection Volume will be provided in the pond below the outlet invert. The outlet pipe was also equipped with a grate to prevent entry of trash or large debris that could clog the outlet pipe.

The outlet is piped to a pre-existing catch basin at the northeast corner of the capped area. This catch basin is connected to an existing pipe network that discharges to the 24-inch culvert in Walden Ave.

Routine maintenance of the pond will be performed in accordance with the SMP in order to accomplish the goal of the pond system which is to effectively remove sediment and pollutants from the stormwater flow as designed. At the completion of construction, all structures were operational and clean of sediment and debris. The systems efficiency in removing sediment and pollutants from the storm flows depends upon routine maintenance.

Final remedial design figures are included as Figures 5 and 6.

5.5 Additional Design Elements

5.5.1 Fencing

A chain-linked security fencing, as depicted in the design drawings was placed around the sections of the property in order to prevent trespassing on to the property. Inspection of the fencing shall be conducted in accordance with the SMP. Details of the installed fencing are provided in Figure 6.

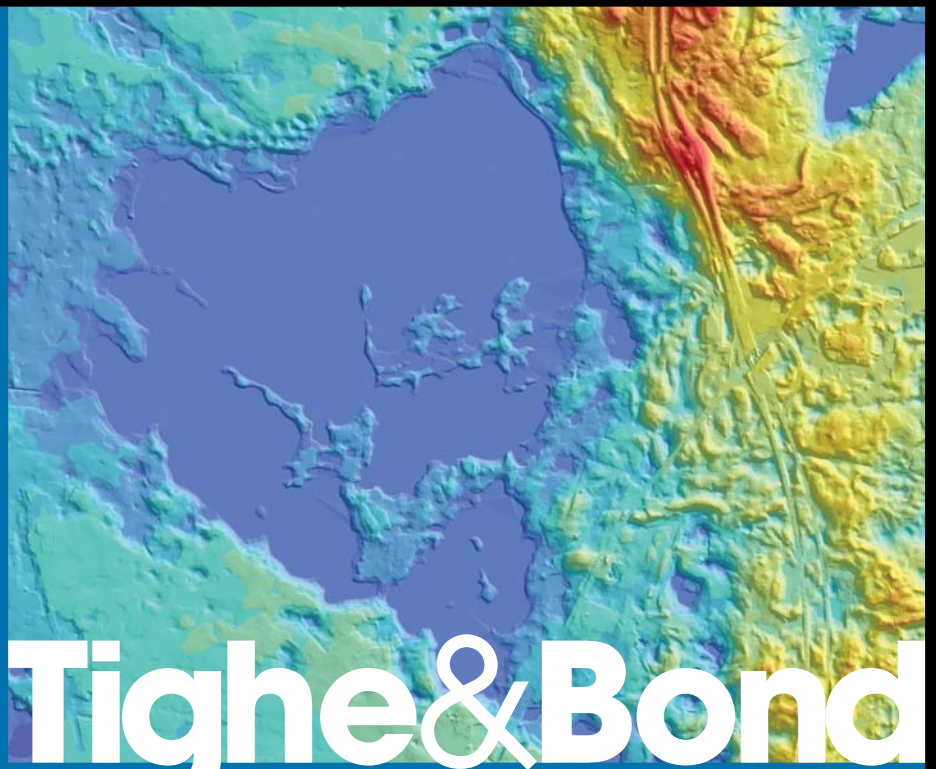
5.5.2 Vegetative Cover

In addition to the cover systems as described in Section 6.4, vegetatives were also planted along Walden Avenue, the pond and the railroad track (from the pond to the west end). Although not part of the cover systems, these vegetatives will be inspected periodically as described within the SMP.

According to information provided by the Owner's landscaper, vegetative planting included American Hollies along the western section of the pond and Clematis along the northern section of the remediation area.

5.5.3 Parking Barriers

According to information provided by the Owner's landscaper, a series of limestone boulders were placed along the top of the containment cell as parking barriers. The boulders are approximately 2-3 feet in diameter and were spaced on 8-foot centers.



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SECTION 6

Section 6
Cover Systems Installation

The purpose of the surface cover systems is to eliminate the potential for human contact with fill material, percolation of precipitation through the impacted fill, and eliminate the potential for contaminated runoff from the site. As identified within the NYSDEC selected remedy, the existing and newly installed cover systems in place at the site consist of the following:

- Asphalt only: According to the RI/FS, the trucking yard and parking area within the eastern section of the site were recently paved in 2004 and are covered by 4.5 inches of sub-base material and 6 inches of asphalt (4.5 binder coat and 1.5 inches top coat). In addition, the area identified as the "rail siding area" was also paved with 6 inches of asphalt (4 inches binder coat and 2 inches top coat) on August 15, 2008.

- Building and Apron Concrete: The floor of the existing building and exterior concrete pads/aprons are believed to be a minimum of 6 inches in thickness of concrete.

- GCL and Soil: All non-paved areas (side slopes of the containment cell) of the containment cell are covered by approximately 12 inches of clean soil underlain by a GCL covering with a 6-inch sand layer between the GCL and impacted fill. All exposed soil has been hydro seeded as an erosion control methodology.

- GCL and Asphalt: All paved areas of the central section containment cell are covered by 6 inches of asphalt (4 inches binder coat and 2 inches top coat) underlain by 12-inches of clean fill, followed by a GCL covering with a 6-inch sand layer between the GCL and the impacted fill.

A figure depicting the locations of each cover system type is included as Figure 7.

6.1 Inspection and Maintenance

As discussed in the SMP for the site, the cover systems will be inspected annually in the spring as part of the monitoring and maintenance program. A summary of the cover systems inspection and maintenance plan is provided in the following sections.

6.2 Asphalt Only Cover System

Inspection of the asphalt only cover system will be conducted annually in the spring after all snow has melted or has been plowed/cleared from the site. If during the inspection the cover system is determined to be damaged, appropriate actions will be taken to repair, replace or reseal the damaged area.

Areas of significant damage or damaged areas which have the potential to allow public access/exposure to sub-base materials (as determined by the owner's Professional Engineer (P.E.)) will be immediately repaired. Degree of repair (i.e. resealing and/or placement of new asphalt) will be dependent on type and size of the damaged area. If the damage is determined to be of great significance that may cause for the disturbance

of impacted materials, the provisions within the SMP shall be followed and worker protection measures implemented.

6.3 Building and Apron Concrete Cover System

The floor of the existing building and exterior concrete pads/aprons are believed to be a minimum of 6 inches in thickness of concrete.

The concrete cover system will be inspected annually in the spring for evidence of deterioration. If during the inspection the cover system is determined to be damaged, appropriate actions will be taken to repair, replace, or reseal the damaged area.

Cracks within the concrete that are determined (by the owners P.E.) to be of significant size and/or width will be repaired by grinding out a suitably-sized groove along the crack and filling the groove with an elastomeric caulk.

Areas of significant damage or damaged areas which have the potential to allow public access/exposure to sub-base materials (as determined by the owner's P.E.) will be immediately repaired. Degree of repair (i.e. resealing and/or placement) will be dependent on type and size of the damaged area. If the damage is determined to be of great significance that may cause for the disturbance of impacted materials, provisions within the SMP shall be followed and worker protection measures implemented.

6.4 GCL and Soil Cover System

All non-paved areas (side slopes of the containment cell) of the central section containment cell are covered by approximately 12 inches of clean soil underlain by a GCL covering with a 6-inch sand layer between the GCL and impacted fill. All exposed soil has been hydro seeded as an erosion control methodology.

The placement of clean fill material and vegetation over the liner was designed to prevent stormwater run-off from eroding or damaging the liner. Vegetative growth on the containment cell cover shall be at a minimum cut on a monthly basis during the growing season. Areas that are non-accessible to mechanical equipment will be cut manually by appropriate means. Sinkholes, erosion and/or bare spots noted during mowing will be repaired immediately. Clean soils will be emplaced and the areas re-seeded as necessary. In the unlikely scenario of substantial settling or subsidence of the soil occurs, the affected areas shall be immediately repaired.

Repairs to the GCL are not anticipated as the GCL will be contained below grade. If however damage to the containment cell occurs and repairs to the GCL become necessary (as determined by the Owner's P.E.), the area in question will marked and then be temporarily covered with clean fill in order to limit public access to the impacted materials and a contractor will be contacted to schedule immediate repairs. In all cases provisions within the SMP shall be followed and worker protection measures implemented.

6.4.1 GCL Repair

If the GCL liner becomes damaged or is in need of repair, it will be repaired by completely exposing the affected area by removing all foreign objects or soil, and a new section of GCL will be placed/patched over the damaged area with a minimum overlap of 12 inches on all edges. Accessory bentonite will be placed between the patch and the

repaired material at a rate of a quarter pound per lineal foot of edge spread in a six-inch width. If damage occurs on a slope, the same basic procedure will be used; however, the edges of the patch will be fastened to the repaired liner with contact cement, epoxy, or some other construction adhesive, in addition to the bentonite-enhanced seam.

6.5 GCL and Asphalt Repair

All paved areas of the central section containment cell are covered by 6 inches of asphalt (4 inches binder and 2 inches top) underlain by 12-inches of clean fill, followed by a GCL covering with a 6-inch sand layer between the GCL and the impacted fill.

Inspection of the GCL and asphalt cover system will be conducted annually in the spring after all snow has melted or been plowed/cleared from the site. If during the inspection the cover system is determined to be damaged appropriate actions will be taken to repair, replace or reseal the damaged area.

Areas of significant damage or damaged areas which have the potentially to allow public access/exposure to sub-base materials (as determined by the owner's P.E.) will be immediately repaired. Degree of repair (i.e. resealing and/or placement of new asphalt) will be dependent on type and size of the damaged area. If the damage is determined to be of significance that causes disturbance to the GCL, repair procedures to the GCL as described in Section 6.4.1 will be implemented. In all cases provisions within the SMP shall be followed and worker protection measures implemented.

Tighe&Bond

SECTION 7

Section 7
Certification

I Thomas C. Couture, with place of business at 53 Southampton Road in Westfield, MA 01085, certify that at all pertinent times hereinafter mentioned was, a currently registered professional engineer; was the individual who had primary direct responsibility for the implementation of the subject remedial program; and that all requirements of the remedial program have been complied with.

The data submitted to the Department demonstrates that the remediation requirements set forth in the remedial work plan and any other relevant provisions of ECL 27-1419 have been achieved.

Any use restrictions, institutional controls, engineering controls and/or any operation and maintenance requirements applicable to the site are contained in an environmental easement created and recorded pursuant to ECL 71-3605 and that any affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded. A copy of the easement and proof of the recording of the easement is included as Appendix E.

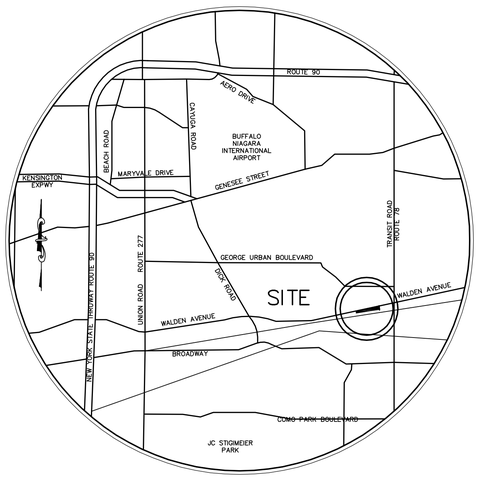
A Site Management Plan has been submitted by the applicant for the continual and proper operation, maintenance, and monitoring of any engineering controls employed at the site including the proper maintenance of any remaining monitoring wells, and that such plan has been approved by the Department.

Date:

X

Thomas C. Couture, P.E.

J:\C\C6254 - former nl\REPORT\Final FER\Final FER 11-09.doc



VICINITY MAP
(NOT TO SCALE)

LEGEND

- DROP INLET
- BOLLARD
- UTILITY POLE
- OHW — OVERHEAD WIRE
- WV — WATER VALVE
- MANHOLE (UNKNOWN TYPE)
- SANITARY MANHOLE

VERTICAL DATUM :
ELEVATIONS SHOWN ON THIS DRAWING ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988

HORIZONTAL DATUM :
THIS DRAWING IS BASED ON AN ASSUMED COORDINATE SYSTEM AND ASSUMED NORTH ROTATION

EXISTING CONDITION SURVEY REFERENCE:

"ALTA/ACSM LAND TITLE SURVEY OF 3241WALDEN AVENUE, PART OF LOT(S) 68 TOWNSHIP 11 RANGE 7 VILLAGE OF DEPEW TOWN OF CHEEKTOWAGA COUNTY OF ERIE STATE OF NEW YORK" PREPARED BY NUSSBAUMER & CLARKE, INC., SHEET 1 OF 1, DATED 10/22/08, SCALE 1"=50'.

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NORTH

Graphic Scale:
0 50' 75' 100'

Former N.L. Industries Final Engineering Report

3241 Walden Ave.
Depew, New York

November 2009

Mark	Date	Description

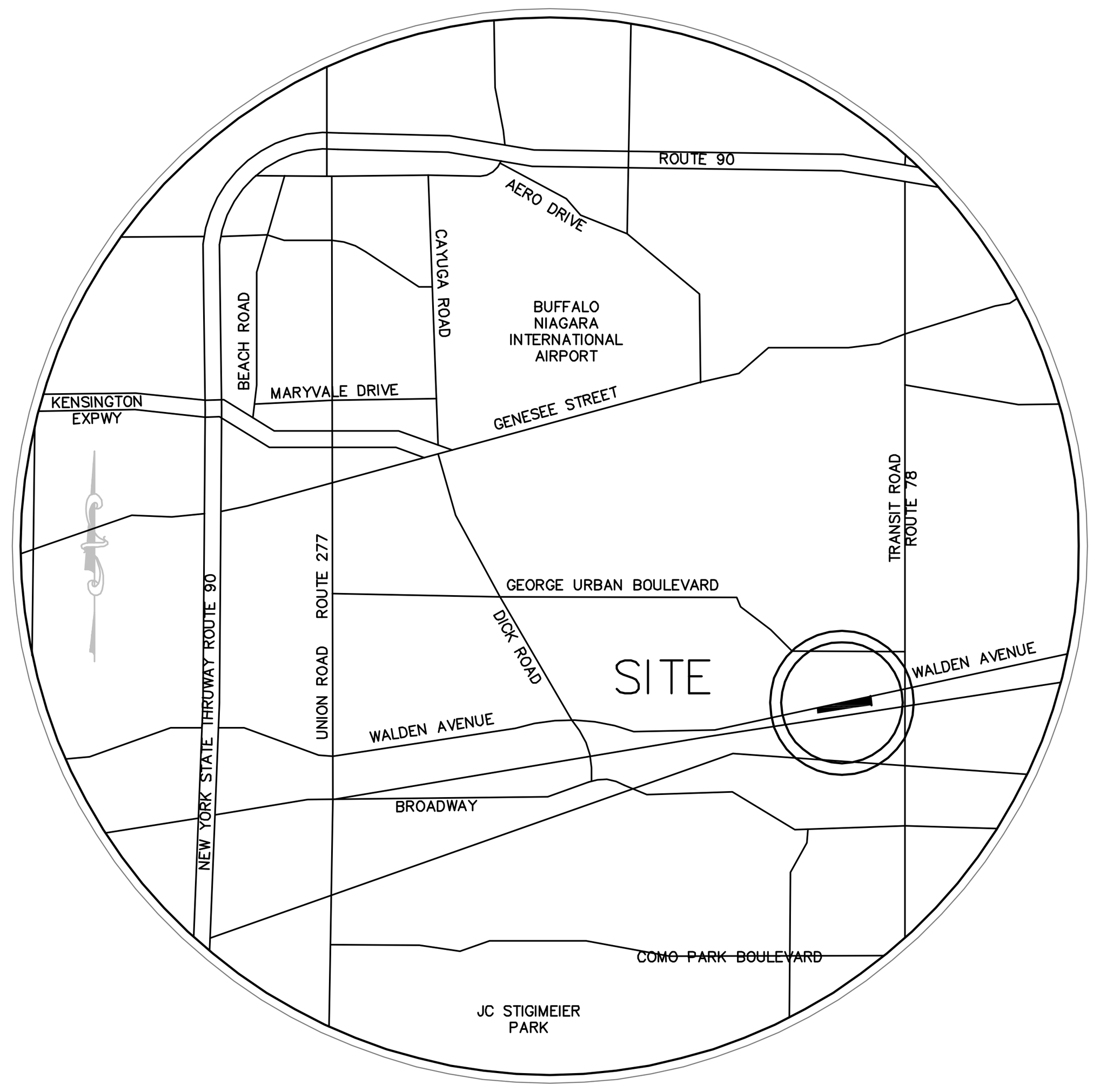
PROJECT NO:	12-6254
FILE:	FER-126254-01.dwg
DRAWN BY:	DSH
CHECKED:	JTO
APPROVED BY:	TCC

Site Location Map

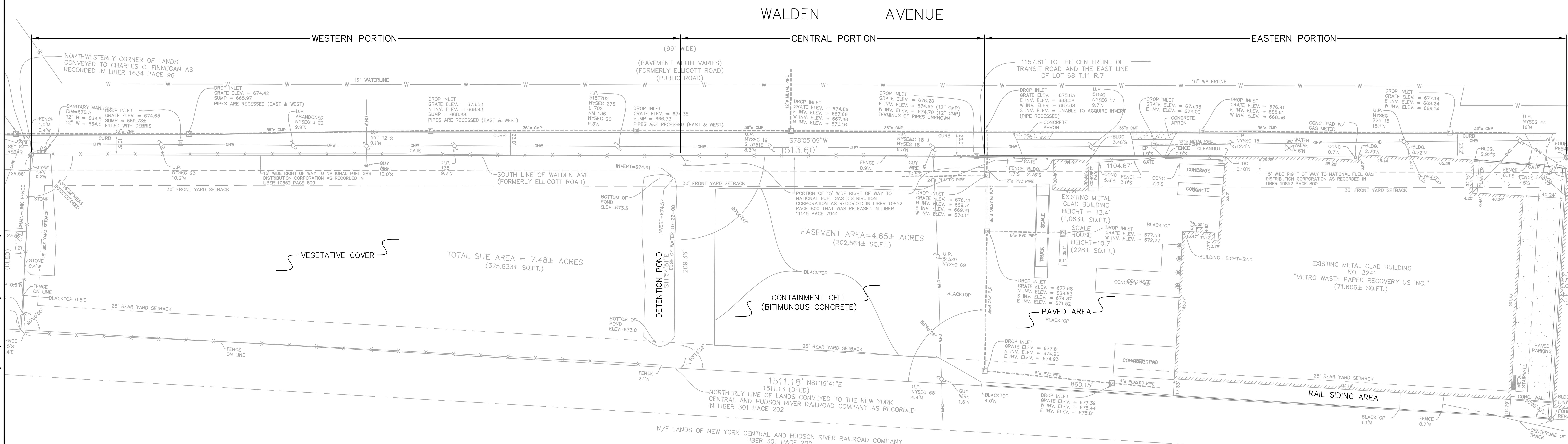
SCALE: 1"=50'

Figure 1

Tighe & Bond Inc: J:\C\C6254 - former n\Drawings\0_Current\sheets\FER-126254-01.dwg Layout Name: Figure 1 Plotted by: DSH Plotted on: Nov 13, 2009 - 1:49pm



VICINITY MAP
(NOT TO SCALE)



Graphic Scale:
0 50' 75' 100'

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November 2009

Mark	Date	Description

PROJECT NO:	12-6254
FILE:	FER-126254-02.dwg
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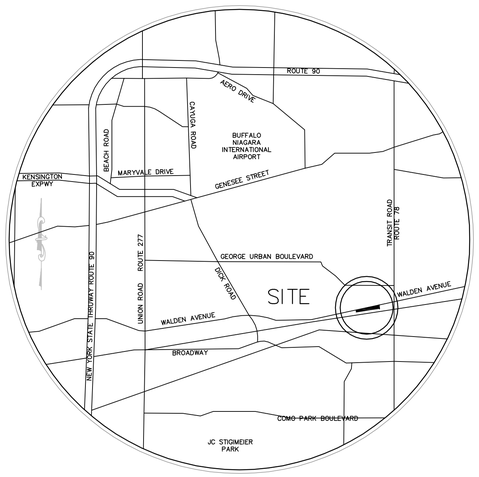
CHECKED:	JTO
APPROVED BY:	TCC

Property Section Map

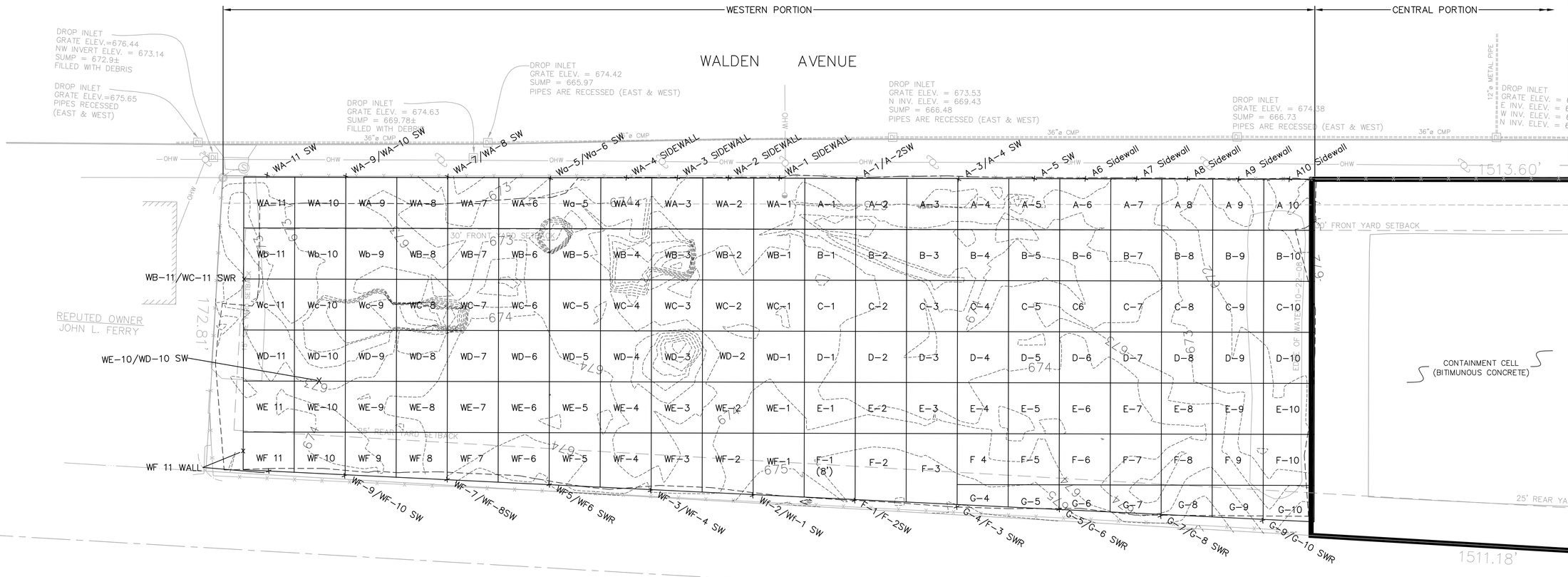
SCALE: As Noted

Figure 2

Tighe & Bond Inc: J:\C\C6254 - former nl\Drawings\0_Current\sheets\FER-126254-02.dwg Layout Name: Figure 2 Plotted by: DSH Plotted on: Nov 17, 2009-10:59am



VICINITY MAP
(NOT TO SCALE)



GENERAL NOTES:

1. ANALYTICAL RESULTS FROM THE DESIGNATED SAMPLE LOCATIONS ARE INCLUDED AS A TABLE IN THE FINAL ENGINEERING REPORT.
2. REFER TO THE ALTA/ASTM LAND TITLE SURVEY INCLUDED IN THE FINAL ENGINEERING REPORT FOR THE WESTERN SECTION PROPERTY DIMENSIONS.

LEGEND

SAMPLE LOCATION	x Wf-2/Wf-1 SW
GRID AREA IDENTIFICATION	WF-1
1' CONTOURS	-------600-------

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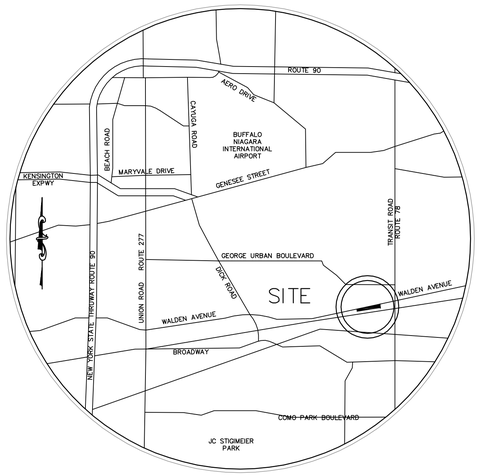
Remediation Grid Locations

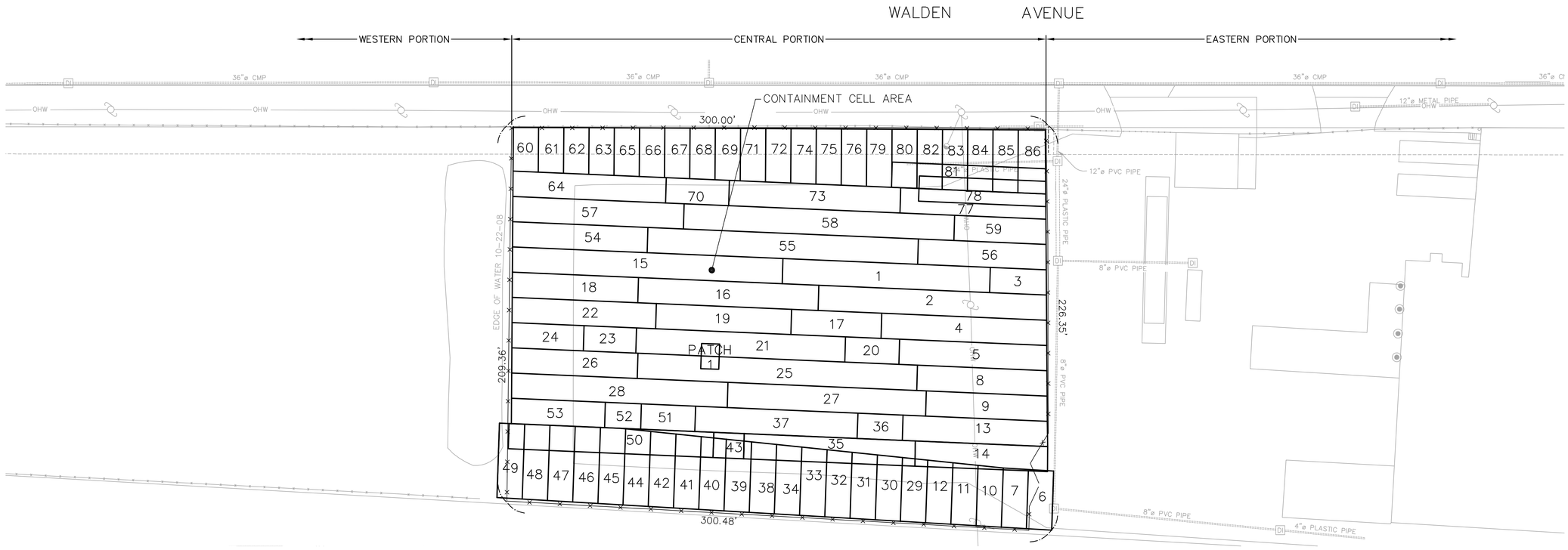
SCALE: 1"=30'

Figure 3

Tighe & Bond Inc: J:\C\C6254 - former nl\Drawings\0_Current\sheets\FER-126254-02.dwg Layout Name: Figure 3 Plotted by: DSH Plotted on: Nov 13, 2009-2:36pm



VICINITY MAP
(NOT TO SCALE)



VERTICAL DATUM:
ELEVATIONS SHOWN ON THIS DRAWING ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988

HORIZONTAL DATUM:
THIS DRAWING IS BASED ON AN ASSUMED COORDINATE SYSTEM AND ASSUMED NORTH ROTATION

LEGEND

G.C.L. PANEL IDENTIFICATION — 25

CHAIN LINK FENCE — × × ×

GENERAL NOTES:

1. EACH G.C.L. ROLL WAS IDENTIFIED BY A UNIQUE NUMBER IN ORDER TO TRACK THE TOTAL NUMBER OF ROLLS USED FOR THE CONSTRUCTION OF THE CONTAINMENT CELL.
2. REFER TO THE ALTA/ASTM LAND TITLE SURVEY INCLUDED IN THE FINAL ENGINEERING REPORT FOR DIMENSION OF THE CONTAINMENT CELL AREA.

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Mark	Date	Description

PROJECT NO:	12-6254
FILE:	FER-126254-03.dwg
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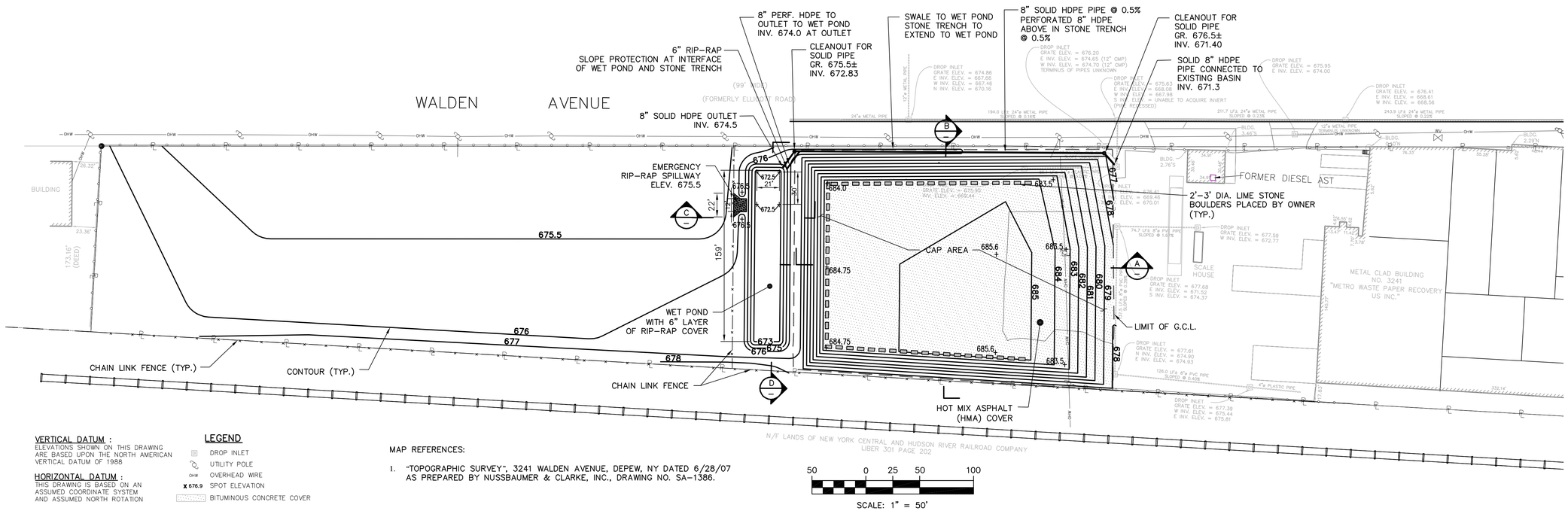
APPROVED BY:	TCC

Geosynthetic Clay Liner Installation Layout Plan

SCALE: 1"=30'

Figure 4

Tighe & Bond Inc: J:\C\C6254 - former nl\Drawings\0_Current\sheets\FER-126254-03.dwg Layout Name: Figure 4 Plotted by: DSH Plotted on: Nov 17, 2009-10:51am



VERTICAL DATUM :
ELEVATIONS SHOWN ON THIS DRAWING ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988

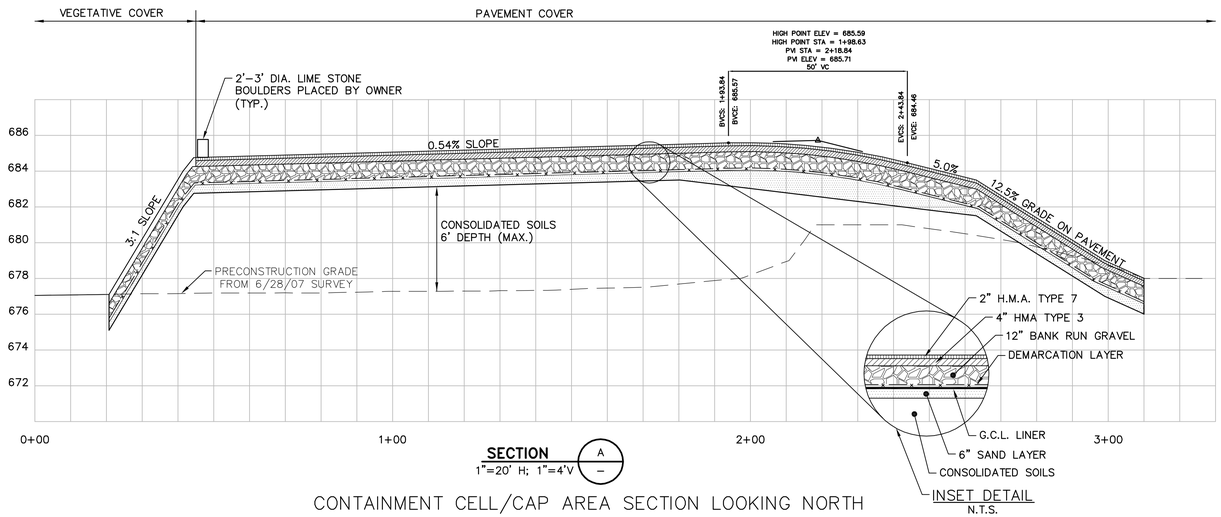
HORIZONTAL DATUM :
THIS DRAWING IS BASED ON AN ASSUMED COORDINATE SYSTEM AND ASSUMED NORTH ROTATION

LEGEND
- DROP INLET
- UTILITY POLE
- OHW — OVERHEAD WIRE
- X 676.9 — SPOT ELEVATION
- BITUMINOUS CONCRETE COVER

MAP REFERENCES:

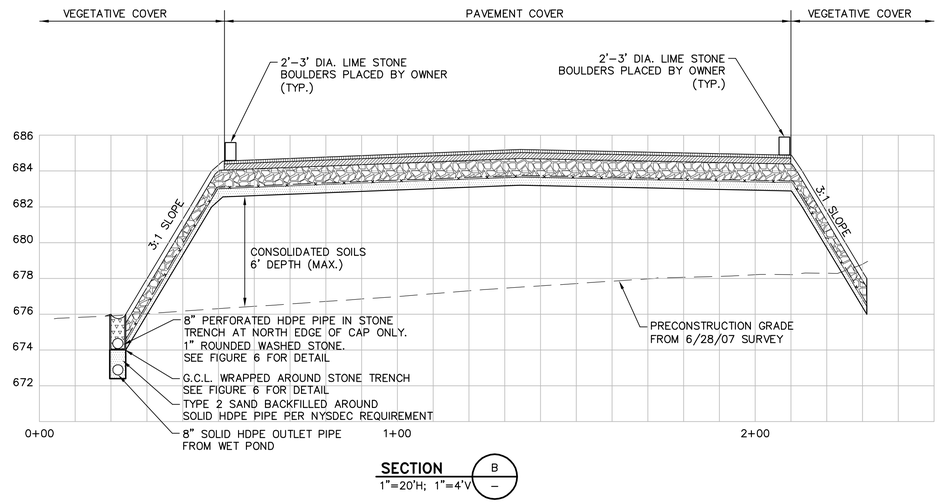
1. "TOPOGRAPHIC SURVEY", 3241 WALDEN AVENUE, DEPEW, NY DATED 6/28/07 AS PREPARED BY NUSSBAUMER & CLARKE, INC., DRAWING NO. SA-1386.

50 0 25 50 100
SCALE: 1" = 50'



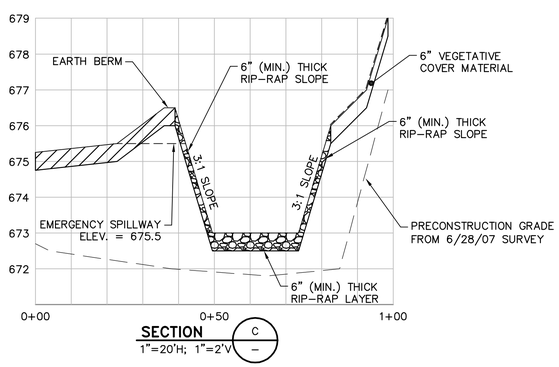
SECTION A
1"=20' H; 1"=4'V

CONTAINMENT CELL/CAP AREA SECTION LOOKING NORTH



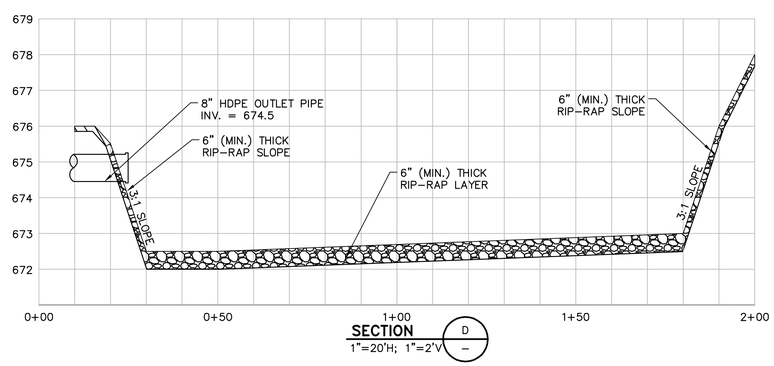
SECTION B
1"=20'H; 1"=4'V

CONTAINMENT CELL/CAP AREA SECTION LOOKING EAST



SECTION C
1"=20'H; 1"=2'V

WET POND SECTION LOOKING NORTH



SECTION D
1"=20'H; 1"=2'V

WET POND SECTION LOOKING EAST

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November 2009

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FILE:	FER-126254-04.dwg
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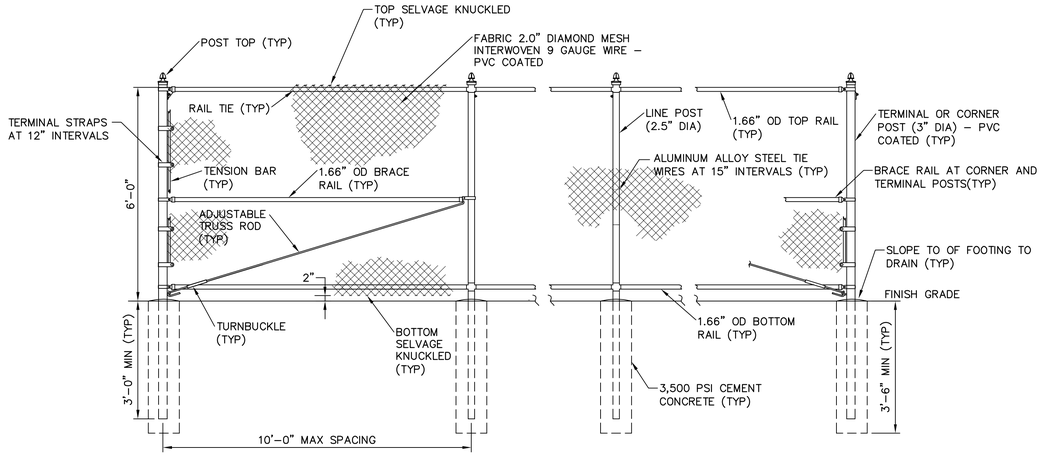
CHECKED:	JTO
APPROVED BY:	TCC

Grading and Layout Plan

SCALE: **VARIES - SEE PLAN**

Figure 5

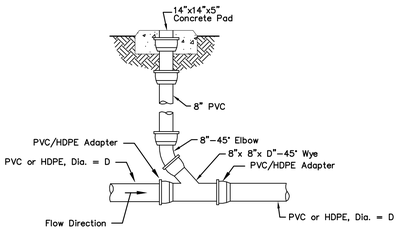
Tighe & Bond Inc. J:\C\C6254 - former nl\Drawings\0_Current\sheets\FER-126254-04.dwg Layout Name: Figure 5 Plotted by: DSH Plotted on: Nov 25, 2009 - 2:14pm



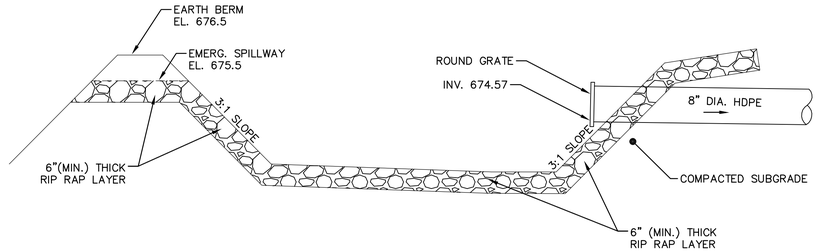
NOTES:

1. FOOTING WIDTH 1'–0" PLUS POST DIAMETER (MIN).
2. ALL POSTS AND RAILS SCH 40 GALVANIZED STEEL PIPE – PVC COATED
3. ALL FASTENERS AND FITTINGS GALVANIZED STEEL

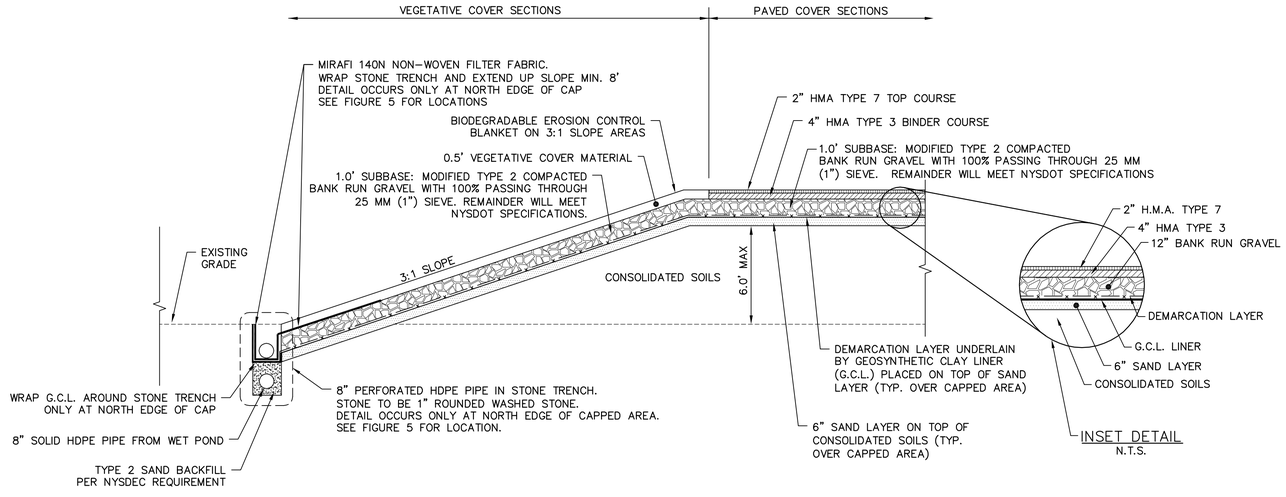
CHAIN LINK FENCE
NO SCALE



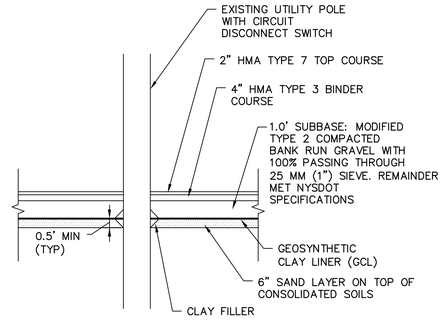
CLEAN–OUT DETAIL
N.T.S. SW–047



DETENTION BASIN OUTLET STRUCTURE
N.T.S. SW–040



TYPICAL CAP SECTION
NO SCALE



UTILITY POLE/GCL PENETRATION
NO SCALE

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November 2009

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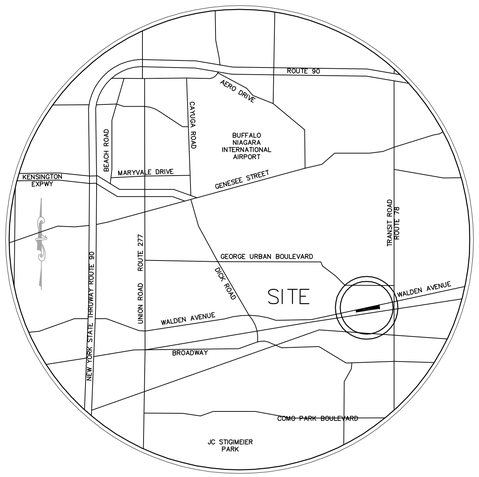
APPROVED BY:	TCC

Site Details

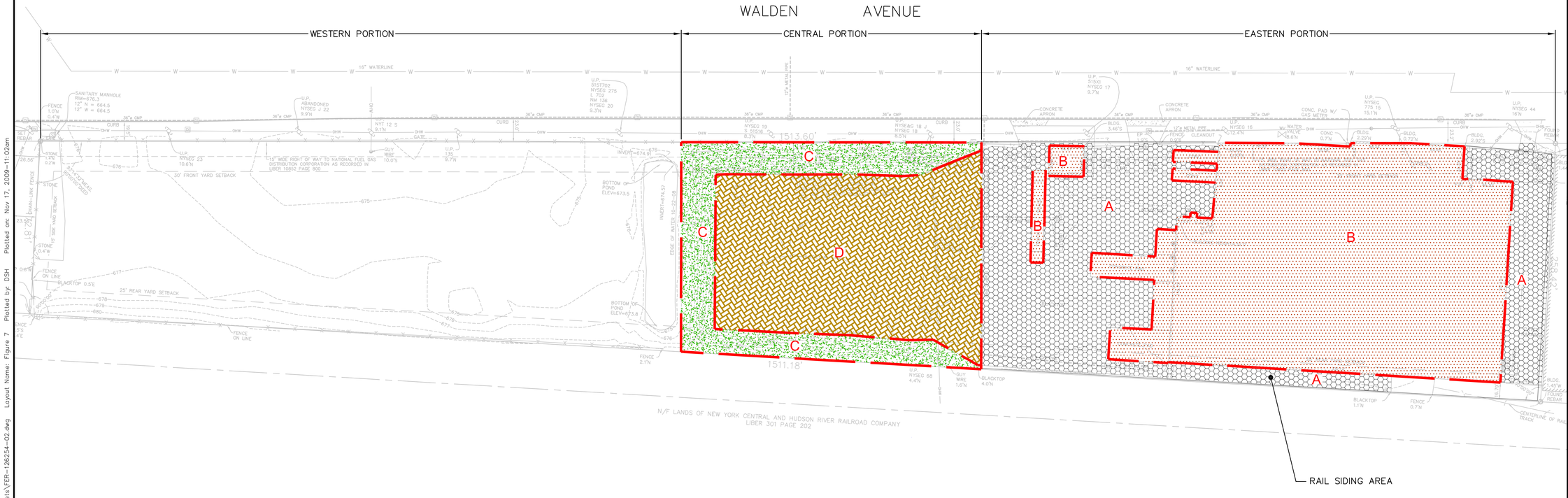
SCALE: N.T.S.

Figure 6

Tighe & Bond Inc: J:\C\C6254 – former nl\Drawings\0_Current\sheets\FER–126254–05.dwg Layout Name: FER_FIG 6 Details Plotted by: DSH Plotted on: Nov 17, 2009–10:24am



VICINITY MAP
(NOT TO SCALE)



GENERAL NOTES:

1. REFER TO THE ALTA/ASTM LAND TITLE SURVEY INCLUDED IN THE FINAL ENGINEERING REPORT FOR DETAIL DESCRIPTIONS OF THE COVER SYSTEMS.
2. EASEMENT AREA IS COMPRISED OF COVER SYSTEMS A, B, C, AND D. FOR A DETAIL DESCRIPTION OF THE AREA REFER TO ALTA/ACSM LAND TITLE SURVEY INCLUDED IN THE FINAL ENGINEERING REPORT.

LEGEND

- COVER SYSTEM A – ASPHALT ONLY
- COVER SYSTEM B – BUILDING & APRON CONCRETE
- COVER SYSTEM C – GEOSYNTHETIC CLAY LINER & SOIL
- COVER SYSTEM D – GEOSYNTHETIC CLAY LINER, SOIL, & ASPHALT

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NORTH

Graphic Scale:
0 50' 75' 100'

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PROJECT NO:	12-6254
FILE:	FER-126254-02.dwg
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Locations of Cover Systems

SCALE: 1"=50'

Figure 7

Tighe & Bond Inc: J:\C\C6254 - former nl\Drawings\0_Current\sheets\FER-126254-02.dwg Layout Name: Figure 7 Plotted by: DSH Plotted on: Nov 17, 2009-11:02am

Table 1
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Soil Analytical Results for Lead

Sample ID	Date Collected	Result (mg/Kg)
A-1	11/20/2007	26
A-1/A-2SW	1/29/2008	2,890
A-2	11/20/2007	34
A-3	11/20/2007	36
A-3/A-4 SW	1/29/2008	2,800
A-4	11/20/2007	50
A-5	11/20/2007	20
A-5 SW	1/29/2008	1,200
A-6	11/20/2007	10
A6 Sidewall	11/1/2007	11,000
A-7	11/20/2007	10
A7 Sidewall	11/1/2007	5,800
A 8	1/3/2008	158
A8 Sidewall	11/1/2007	8,600
A 9	1/3/2008	165
A9 Sidewall	11/1/2007	38,000
A 10	1/3/2008	362
A10 Sidewall	11/1/2007	4,900
B-1	11/20/2007	10
B-2	11/20/2007	15
B-3	11/20/2007	170
B-4	11/20/2007	14
B-5	11/20/2007	22
B-6	12/20/2007	21
B-7	12/20/2007	21
B-8	1/10/2008	9
B-9	1/10/2008	27
B-10	1/10/2008	6
C-1	11/20/2007	13
C-2	11/20/2007	16
C-3	12/11/2007	11
C-4	12/11/2007	27
C-5	12/11/2007	29
C 6	1/3/2008	76
C-7	12/6/2007	17
C-8	12/6/2007	14
C-9	12/6/2007	14
C-10	12/6/2007	84
D-1	12/11/2007	23
D-2	12/11/2007	12
D-3	12/11/2007	13
D-4	12/6/2007	112
D-5	12/6/2007	26
D-6	12/6/2007	15
D-7	12/6/2007	301
D-8	12/6/2007	20
D-9	12/6/2007	281
D-10	12/6/2007	60
E-1	12/20/2007	19
E-2	12/17/2007	25
E-3	12/17/2007	240
E-4	12/20/2007	17
E-5	12/17/2007	11
E-6	12/17/2007	27
E-7	12/17/2007	17
E-8	12/17/2007	10
E-9	12/17/2007	8
E-10	12/17/2007	13

Table 1
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Soil Analytical Results for Lead

Sample ID	Date Collected	Result (mg/Kg)
F-1 (8')	6/3/2008	16
F-1/F-2 SWR	6/4/2008	950
F-2	12/27/2007	43
F-3	12/27/2007	290
F 4	1/4/2008	13
F-5	12/27/2007	53
F-6	12/27/2007	27
F-7	12/27/2007	130
F-8	12/27/2007	59
F 9	1/4/2008	20
F-10	12/27/2007	170
G-4	12/27/2007	12
G-4/F-3 SWR	6/4/2008	3,000
G-5	12/27/2007	360
G-5/G-6 SWR	6/4/2008	98
G-6	12/27/2007	29
G-7	12/27/2007	87
G-7/G-8 SWR	6/4/2008	18,000
G-8	12/27/2007	11
G-9	12/27/2007	69
G-9/G-10 SWR	6/4/2008	40,000
G-10	12/27/2007	310
WA-1	1/9/2008	18
WA-1 SIDEWALL	1/9/2008	1,960
WA-2	1/9/2008	30
WA-2 SIDEWALL	1/9/2008	1,070
WA-3	1/9/2008	33
WA-3 SIDEWALL	1/9/2008	1,070
WA-4	1/9/2008	22
WA-4 SIDEWALL	1/9/2008	895
Wa-5	7/10/2008	99
WA-6	7/10/2008	18
Wa-5/Wa-6 SW	7/10/2008	806
WA-7	7/10/2008	11
WA-8	7/10/2008	13
WA-7/WA-8 SW	7/10/2008	408
Wa-9	7/11/2008	14
Wa-10	7/11/2008	6
WA-9/WA-10 SW	7/11/2008	221
Wa-11	7/14/2008	15
WA-11 SW	7/14/2008	212
WB-1	12/11/2007	19
WB-2	12/11/2007	25
WB-3	12/11/2007	11
WB-4	12/17/2007	10
WB-5	1/16/2008	10
WB-6	1/16/2008	9
WB-7	1/16/2008	14
WB-8	1/29/2008	24
WB-9	2/8/2008	11
WB-10	2/8/2008	10
WB-11	2/8/2008	36
WB-11/WC-11 SWR	7/14/2008	93

Table 1
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Soil Analytical Results for Lead

Sample ID	Date Collected	Result (mg/Kg)
WC-1	12/11/2007	13
WC-2	12/11/2007	33
WC-3	12/11/2007	12
WC-4	12/17/2007	27
WC-5	1/16/2008	18
WC-6	1/16/2008	8
WC-7	1/16/2008	14
WC-8	1/29/2008	14
WC-9	2/8/2008	13
WC-10	2/8/2008	11
WC-11	2/8/2008	9
WD-1	12/11/2007	47
WD-2	12/11/2007	13
WD-3	12/11/2007	9
WD-4	12/17/2007	12
WD-5	1/16/2008	10
WD-6	1/16/2008	22
WD-7	1/16/2008	9
WD-8	1/29/2008	12
WD-9	1/29/2008	15
WD-10	1/29/2008	15
WD-11	1/29/2008	12
WE-1	12/20/2007	15
WE-2	12/20/2007	14
WE-3	12/20/2007	17
WE-4	12/20/2007	15
WE-5	1/16/2008	9
WE-6	1/16/2008	14
WE-7	1/16/2008	10
WE-8	1/29/2008	39
WE-9	1/29/2008	13
WE-10	1/29/2008	7
WE-10/WD-10 SW	1/29/2008	120
WE 11	1/4/2008	49
WF-1	12/27/2007	59
WF-1/WF-2SW	1/29/2008	217
WF-2	12/27/2007	16
WF-3	12/27/2007	12
WF-3/WF-4 SW	1/29/2008	360
WF-4	12/27/2007	17
WF-5	12/27/2007	24
WF-5/WF-6 SWR	6/3/2008	120
WF-6	12/27/2007	15
WF 7	1/4/2008	112
WF-7/WF-8SW	1/29/2008	163
WF 8	1/4/2008	14
WF 9	1/4/2008	17
WF-9/WF-10 SW	1/29/2008	87
WF 10	1/4/2008	13
WF 11	1/4/2008	146
WF-11 WALL	1/4/2008	17

Recommended Soil Cleanup Concentration for Lead is 400 mg/Kg
mg/Kg = Milligram per Kilogram

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
002890146 JJK	Price Trucking	34.72	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890147 JJK	Price Trucking	34.28	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890148 JJK	Page E.T.C. INC.	24.96	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890149 JJK	Page E.T.C. INC.	24	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890150 JJK	Price Trucking	32.6	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890151 JJK	Price Trucking	37.92	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890152 JJK	Price Trucking	38.57	11/26/07	11/26/07	Michigan Waste Disposal, Belleville, MI
002890153 JJK	Price Trucking	35.87	11/26/07	11/28/07	EQ Detroit, MI
002890154 JJK	Page E.T.C. INC.	28	11/27/07	11/27/07	Michigan Waste Disposal, Belleville, MI
002890155 JJK	Price Trucking	32.56	11/27/07	11/28/07	EQ Detroit, MI
002890156 JJK	Price Trucking	38.15	11/27/07	11/28/07	EQ Detroit, MI
002890157 JJK	Price Trucking	36.23	11/27/07	11/28/07	EQ Detroit, MI
002890158 JJK	Price Trucking	39.4	11/27/07	11/28/07	EQ Detroit, MI
002890159 JJK	Price Trucking	38.2	11/27/07	11/28/07	EQ Detroit, MI
002890160 JJK	Page E.T.C. INC.	24.62	11/28/07	11/28/07	EQ Detroit, MI
002890161 JJK	Price Trucking	24.45	11/28/07	11/28/07	EQ Detroit, MI
002890162 JJK	Price Trucking	33.68	11/28/07	11/28/07	EQ Detroit, MI
002890163 JJK	Price Trucking	23.57	11/28/07	11/29/07	EQ Detroit, MI
002890164 JJK	Price Trucking	35.08	11/28/07	11/28/07	EQ Detroit, MI
002890165 JJK	Price Trucking	34.9	11/28/07	11/28/07	EQ Detroit, MI
002890166 JJK	Page E.T.C. INC.	25.61	11/28/07	11/28/07	EQ Detroit, MI
002890167 JJK	Price Trucking	27.88	11/28/07	11/29/07	EQ Detroit, MI
002890168 JJK	Page E.T.C. INC.	26.14	11/29/07	11/29/07	EQ Detroit, MI
002890169 JJK	Price Trucking	35.1	11/29/07	11/29/07	EQ Detroit, MI
002890170 JJK	Price Trucking	38.93	11/29/07	11/29/07	EQ Detroit, MI
002890171 JJK	Price Trucking	34.1	11/29/07	11/29/07	EQ Detroit, MI
002890172 JJK	Price Trucking	38.11	11/29/07	11/29/07	EQ Detroit, MI
002890173 JJK	Page E.T.C. INC.	23.95	11/29/07	11/29/07	EQ Detroit, MI
002890174 JJK	Price Trucking	37.57	11/29/07	12/6/07	EQ Detroit, MI
002890175 JJK	Price Trucking	33.36	11/29/07	11/30/07	EQ Detroit, MI
002890176 JJK	Price Trucking	36.26	11/29/07	11/30/07	EQ Detroit, MI
002890177 JJK	Price Trucking	36.15	11/29/07	11/30/07	Michigan Waste Disposal, Belleville, MI
002890178 JJK	Price Trucking	40.75	11/29/07	11/30/07	Michigan Waste Disposal, Belleville, MI
002890179 JJK	Price Trucking	34.55	11/29/07	11/30/07	EQ Detroit, MI
002890180 JJK	Page E.T.C. INC.	25.63	11/30/07	11/30/07	Michigan Waste Disposal, Belleville, MI
002890181 JJK	Price Trucking	36.13	11/30/07	11/30/07	Michigan Waste Disposal, Belleville, MI
002890182 JJK	Price Trucking	39.02	11/30/07	12/3/07	EQ Detroit, MI
002890183 JJK	Price Trucking	38.26	11/30/07	12/3/07	EQ Detroit, MI
002890184 JJK	Price Trucking	33.99	11/30/07	12/3/07	EQ Detroit, MI
002890185 JJK	Price Trucking	23.63	11/30/07	12/3/07	EQ Detroit, MI
002890186 JJK	Price Trucking	35.6	12/3/07	12/3/07	EQ Detroit, MI
002890187 JJK	Price Trucking	36.84	12/3/07	12/5/07	EQ Detroit, MI
002890190 JJK	Price Trucking	35.28	12/3/07	12/3/07	EQ Detroit, MI
002890191 JJK	Price Trucking	32.62	12/3/07	12/3/07	EQ Detroit, MI
002890192 JJK	Price Trucking	40.38	12/3/07	12/3/07	EQ Detroit, MI
002890193 JJK	Price Trucking	35.73	12/3/07	12/4/07	EQ Detroit, MI

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
002890194 JJK	Price Trucking	36.56	12/3/07	12/3/07	EQ Detroit, MI
002890195 JJK	Price Trucking	34.9	12/4/07	12/4/07	EQ Detroit, MI
001589478 FLE	Price Trucking	37.33	12/4/07	12/5/07	Envirite of Ohio, Inc. Canton, OH
002890196 JJK	Price Trucking	36.9	12/4/07	12/4/07	EQ Detroit, MI
001589495 FLE	Price Trucking	34.39	12/4/07	12/4/07	Envirite of Ohio, Inc. Canton, OH
001589497 FLE	Price Trucking	38.11	12/4/07	12/4/07	Envirite of Ohio, Inc. Canton, OH
001589498 FLE	Price Trucking	35	12/4/07	12/4/07	Envirite of Ohio, Inc. Canton, OH
001589496 FLE	Price Trucking	35.61	12/4/07	12/4/07	Envirite of Ohio, Inc. Canton, OH
002890197 JJK	Price Trucking	38.26	12/4/07	12/4/07	EQ Detroit, MI
002890198 JJK	Price Trucking	39.99	12/4/07	12/5/07	EQ Detroit, MI
002890199 JJK	Price Trucking	35.06	12/5/07	12/10/07	EQ Detroit, MI
002890200 JJK	Price Trucking	38.55	12/5/07	12/5/07	EQ Detroit, MI
001589482 FLE	Price Trucking	40.95	12/5/07	12/5/07	Envirite of Ohio, Inc. Canton, OH
001589483 FLE	Price Trucking	34.47	12/5/07	12/5/07	Envirite of Ohio, Inc. Canton, OH
001589494 FLE	Price Trucking	34.49	12/5/07	12/5/07	Envirite of Ohio, Inc. Canton, OH
001589484 FLE	Price Trucking	34.28	12/5/07	12/5/08	Envirite of Ohio, Inc. Canton, OH
001589485 FLE	Price Trucking	26.68	12/5/07	12/6/07	Envirite of Ohio, Inc. Canton, OH
002890201 JJK	Price Trucking	34.93	12/5/07	12/7/07	EQ Detroit, MI
001589486 FLE	Price Trucking	32.01	12/6/07	12/6/07	Envirite of Ohio, Inc. Canton, OH
001589487 FLE	Page E.T.C. INC.	23.61	12/6/07	12/6/07	Envirite of Ohio, Inc. Canton, OH
001589488 FLE	Price Trucking	36.01	12/6/07	12/6/07	Envirite of Ohio, Inc. Canton, OH
001589489 FLE	Price Trucking	32.43	12/6/07	12/6/07	Envirite of Ohio, Inc. Canton, OH
001589490 FLE	Price Trucking	27.86	12/6/07	12/7/07	Envirite of Ohio, Inc. Canton, OH
001589491 FLE	Price Trucking	32.55	12/6/07	12/7/07	Envirite of Ohio, Inc. Canton, OH
001589493 FLE	Price Trucking	34.37	12/7/07	12/7/07	Envirite of Ohio, Inc. Canton, OH
001589492 FLE	Price Trucking	34.51	12/7/07	12/7/07	Envirite of Ohio, Inc. Canton, OH
001589499 FLE	Price Trucking	32.3	12/7/07	12/7/07	Envirite of Ohio, Inc. Canton, OH
001589500 FLE	Price Trucking	28.59	12/7/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
001592548 FLE	Price Trucking	27.28	12/7/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
002890204 JJK	Price Trucking	40.93	12/10/07	12/11/07	EQ Detroit, MI
002890213 JJK	Price Trucking	35.52	12/10/07	12/10/07	EQ Detroit, MI
001592554 FLE	Price Trucking	32.16	12/10/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
001592558 FLE	Price Trucking	30.2	12/10/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
1592557 FLE	Price Trucking	31.21	12/10/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
1592555 FLE	Price Trucking	35.74	12/10/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
1592553 FLE	Price Trucking	34.49	12/10/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
1592550 FLE	Price Trucking	37.28	12/10/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
1592551 FLE	Page E.T.C. INC.	24.76	12/10/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
1592552 FLE	Price Trucking	34.78	12/10/07	12/10/07	Envirite of Ohio, Inc. Canton, OH
2890202 JJK	Price Trucking	37.75	12/10/07	12/10/07	EQ Detroit, MI
2890203 JJK	Price Trucking	28.25	12/10/07	12/10/07	EQ Detroit, MI
1400986 FLE	Price Trucking	35.44	12/11/07	12/21/07	Envirite of Ohio, Inc. Canton, OH
1400990 FLE	Price Trucking	33.62	12/11/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
1592563 FLE	Price Trucking	25.32	12/11/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
1592562 FLE	Price Trucking	33.11	12/11/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
1592561 FLE	Price Trucking	33.73	12/11/07	12/12/07	Envirite of Ohio, Inc. Canton, OH

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
1592560 FLE	Price Trucking	33.33	12/11/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
1592559 FLE	Price Trucking	32.68	12/11/07	12/11/07	Envirite of Ohio, Inc. Canton, OH
2890209 JJK	Price Trucking	36.33	12/11/07	12/11/07	EQ Detroit, MI
2890208 JJK	Price Trucking	28.17	12/11/07	12/11/07	EQ Detroit, MI
2890207 JJK	Price Trucking	37.78	12/11/07	12/11/07	EQ Detroit, MI
2890206 JJK	Price Trucking	33.07	12/11/07	12/11/07	EQ Detroit, MI
2890205 JJK	Price Trucking	35.36	12/11/07	12/11/07	EQ Detroit, MI
1400993 FLE	Price Trucking	38.85	12/12/07	12/13/07	Envirite of Ohio, Inc. Canton, OH
2890215 JJK	Price Trucking	35.89	12/12/07	12/13/07	EQ Detroit, MI
1400988 FLE	Price Trucking	36.49	12/12/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
1401000 FLE	Price Trucking	35.72	12/12/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
2890214 JJK	Price Trucking	42.57	12/12/07	12/12/07	EQ Detroit, MI
2890216 JJK	Price Trucking	35.63	12/12/07	12/12/07	EQ Detroit, MI
1400992 FLE	Price Trucking	36.76	12/12/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
1400995 FLE	Page E.C.T. INC.	24.15	12/12/07	12/12/07	Envirite of Ohio, Inc. Canton, OH
2890212 JJK	Price Trucking	36.62	12/12/07	12/12/07	EQ Detroit, MI
2890211 JJK	Price Trucking	36.72	12/12/07	12/12/07	EQ Detroit, MI
1592518 FLE	Price Trucking	28.93	12/12/07	12/13/07	Envirite of Ohio, Inc. Canton, OH
1592508 FLE	Price Trucking	30.6	12/12/07	12/13/07	Envirite of Ohio, Inc. Canton, OH
2890210 JJK	Price Trucking	37.86	12/12/07	12/12/07	EQ Detroit, MI
2890224 JJK	Price Trucking	39.02	12/13/07	12/14/07	EQ Detroit, MI
1592547 FLE	Price Trucking	35.57	12/13/07	12/13/07	Envirite of Ohio, Inc. Canton, OH
2890223 JJK	Price Trucking	43.24	12/13/07	12/13/07	EQ Detroit, MI
1400987 FLE	Price Trucking	35.9	12/13/07	12/13/07	Envirite of Ohio, Inc. Canton, OH
2890222 JJK	Price Trucking	38.44	12/13/07	12/13/07	EQ Detroit, MI
2890221 JJK	Price Trucking	37.86	12/13/07	12/13/07	EQ Detroit, MI
2890220 JJK	Price Trucking	32.9	12/13/07	12/13/07	EQ Detroit, MI
2890219 JJK	Price Trucking	37.85	12/13/07	12/13/07	EQ Detroit, MI
2890217 JJK	Price Trucking	37.86	12/13/07	12/13/07	EQ Detroit, MI
2890218 JJK	Page E.T.C. INC.	24.72	12/13/07	12/14/07	EQ Detroit, MI
2859949 JJK	Price Trucking	33.91	12/13/07	12/14/07	EQ Detroit, MI
2890225 JJK	Price Trucking	33.34	12/14/07	12/14/07	EQ Detroit, MI
2859940 JJK	Price Trucking	39.78	12/14/07	12/17/07	EQ Detroit, MI
2859939 JJK	Price Trucking	36.54	12/14/07	12/17/07	EQ Detroit, MI
2859948 JJK	Price Trucking	23.78	12/14/07	12/17/07	EQ Detroit, MI
2859945 JJK	Price Trucking	33.82	12/14/07	12/17/07	EQ Detroit, MI
2859944 JJK	Price Trucking	27.05	12/14/07	12/17/07	EQ Detroit, MI
2859943 JJK	Price Trucking	24.92	12/14/07	12/17/07	EQ Detroit, MI
2859942 JJK	Price Trucking	25.79	12/14/07	12/18/07	EQ Detroit, MI
2859941 JJK	Price Trucking	31.24	12/14/07	12/17/07	EQ Detroit, MI
2859962 JJK	Price Trucking	26.07	12/17/07	12/19/07	EQ Detroit, MI
2859946 JJK	Price Trucking	20.71	12/17/07	12/17/07	EQ Detroit, MI
2859951 JJK	Price Trucking	25.59	12/18/07	12/18/07	EQ Detroit, MI
2859952 JJK	Price Trucking	23.39	12/18/07	12/20/07	EQ Detroit, MI
2859953 JJK	Price Trucking	27.29	12/18/07	12/19/07	EQ Detroit, MI
2859954 JJK	Price Trucking	26.81	12/18/07	12/19/07	EQ Detroit, MI

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
2859955 JJK	Price Trucking	32.24	12/18/07	12/18/07	EQ Detroit, MI
2859956 JJK	Price Trucking	29.55	12/18/07	12/19/07	EQ Detroit, MI
2859957 JJK	Price Trucking	23.76	12/18/07	12/18/07	EQ Detroit, MI
2859958 JJK	Price Trucking	28.37	12/18/07	12/18/07	EQ Detroit, MI
2859959 JJK	Price Trucking	27.31	12/18/07	12/18/07	EQ Detroit, MI
2859960 JJK	Page E.T.C. INC.	22.64	12/18/07	12/18/07	EQ Detroit, MI
2889696 JJK	Price Trucking	32.92	12/19/07	12/19/07	EQ Detroit, MI
2859950 JJK	Page E.T.C. INC.	23.44	12/19/07	12/19/07	EQ Detroit, MI
2889691 JJK	Price Trucking	24.71	12/19/07	12/19/07	EQ Detroit, MI
2889690 JJK	Price Trucking	26.69	12/19/07	12/19/07	EQ Detroit, MI
2889689 JJK	Price Trucking	26.03	12/19/07	12/19/07	EQ Detroit, MI
2889697 JJK	Page E.T.C. INC.	24	12/20/07	12/20/07	EQ Detroit, MI
2889693 JJK	Price Trucking	28.28	12/20/07	12/20/07	EQ Detroit, MI
2889685 JJK	Price Trucking	27.82	12/20/07	12/21/07	EQ Detroit, MI
2889687 JJK	Price Trucking	26.72	12/20/07	12/20/07	EQ Detroit, MI
2889692 JJK	Price Trucking	28.64	12/20/07	12/20/07	EQ Detroit, MI
2889694 JJK	Price Trucking	26.07	12/20/07	12/20/07	EQ Detroit, MI
2889695 JJK	Price Trucking	26.2	12/20/07	12/20/07	EQ Detroit, MI
2889678 JJK	Price Trucking	29.08	12/20/07	12/20/07	EQ Detroit, MI
2859947 JJK	Price Trucking	27.55	12/14/07	12/17/07	EQ Detroit, MI
2889686 JJK	Price Trucking	33.24	12/20/07	12/21/07	EQ Detroit, MI
2889688 JJK	Price Trucking	31.06	12/20/07	12/20/07	EQ Detroit, MI
2889698 JJK	Page E.T.C. INC.	23.14	12/21/07	12/21/07	EQ Detroit, MI
2889699 JJK	Price Trucking	23.77	12/20/07	12/21/07	EQ Detroit, MI
2889701 JJK	Price Trucking	25.31	12/20/07	12/20/07	EQ Detroit, MI
2889681 JJK	Price Trucking	22.31	12/21/07	12/21/07	EQ Detroit, MI
2889682 JJK	Price Trucking	22.33	12/21/07	12/21/07	EQ Detroit, MI
2889683 JJK	Price Trucking	25.9	12/21/07	12/21/07	EQ Detroit, MI
2889684 JJK	Price Trucking	21.93	12/21/07	12/21/07	EQ Detroit, MI
2889679 JJK	Page E.T.C. INC.	21.81	12/26/07	12/26/07	EQ Detroit, MI
2889680 JJK	Page E.T.C. INC.	23.12	12/26/07	12/26/07	EQ Detroit, MI
2889705 JJK	Price Trucking	32.56	12/26/07	12/27/07	EQ Detroit, MI
2889708 JJK	Price Trucking	28.88	12/26/07	12/27/07	EQ Detroit, MI
2889709 JJK	Price Trucking	23.42	12/26/07	12/27/07	EQ Detroit, MI
2889710 JJK	Price Trucking	24.61	12/26/07	12/27/07	EQ Detroit, MI
2889711 JJK	Price Trucking	23.65	12/26/07	12/31/08	EQ Detroit, MI
2889712 JJK	Price Trucking	23.47	12/26/07	12/27/07	EQ Detroit, MI
2889713 JJK	Price Trucking	32.46	12/26/07	12/26/07	EQ Detroit, MI
2889714 JJK	Page E.T.C. INC.	23.56	12/26/07	12/27/07	EQ Detroit, MI
2889700 JJK	Page E.T.C. INC.	24.73	12/27/07	12/27/07	EQ Detroit, MI
2889704 JJK	Price Trucking	30.42	12/27/07	12/28/07	EQ Detroit, MI
2889706 JJK	Price Trucking	31.35	12/27/07	12/28/07	EQ Detroit, MI
2889707 JJK	Page E.T.C. INC.	21.49	12/27/07	12/27/07	EQ Detroit, MI
2889726 JJK	Price Trucking	25.59	12/27/07	12/28/07	EQ Detroit, MI
2889727 JJK	Price Trucking	30.01	12/27/07	12/27/07	EQ Detroit, MI
2889715 JJK	Price Trucking	27.73	12/28/07	12/31/07	EQ Detroit, MI

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
2889716 JJK	Price Trucking	27.55	12/28/07	12/31/07	EQ Detroit, MI
2889722 JJK	Price Trucking	32.03	12/28/07	12/28/07	EQ Detroit, MI
2889723 JJK	Price Trucking	22.36	12/28/07	1/2/08	EQ Detroit, MI
2889724 JJK	Page E.T.C. INC.	23.14	12/28/07	12/28/07	EQ Detroit, MI
2889725 JJK	Page E.T.C. INC.	21.98	12/28/07	12/28/07	EQ Detroit, MI
2889728 JJK	Page E.T.C. INC.	23.15	12/28/07	12/28/07	EQ Detroit, MI
1592505 FLE	Price Trucking	36.76	1/2/08	1/2/08	Envirite of Ohio, Inc. Canton, OH
1592542 FLE	Price Trucking	35.05	1/2/08	1/2/08	Envirite of Ohio, Inc. Canton, OH
1592546 FLE	Price Trucking	35.11	1/2/08	1/2/08	Envirite of Ohio, Inc. Canton, OH
2889717 JJK	Price Trucking	32.15	1/2/08	1/2/08	EQ Detroit, MI
2889718 JJK	Page E.T.C. INC.	22.76	1/2/08	1/2/08	EQ Detroit, MI
2889719 JJK	Price Trucking	29.72	1/2/08	1/2/08	EQ Detroit, MI
2889720 JJK	Price Trucking	31.09	1/2/08	1/2/08	EQ Detroit, MI
2889721 JJK	Price Trucking	36.57	1/2/08	1/2/08	EQ Detroit, MI
2889736 JJK	Price Trucking	34.7	1/2/08	1/2/08	EQ Detroit, MI
2889737 JJK	Price Trucking	25.64	1/2/08	1/2/08	EQ Detroit, MI
1592520 FLE	Price Trucking	34.44	1/3/08	1/4/08	Envirite of Ohio, Inc. Canton, OH
1592522 FLE	Price Trucking	32.68	1/3/08	1/3/08	Envirite of Ohio, Inc. Canton, OH
2889729 JJK	Price Trucking	36.75	1/3/08	1/3/08	EQ Detroit, MI
2889730 JJK	Price Trucking	34.42	1/3/08	1/3/08	EQ Detroit, MI
2889732 JJK	Price Trucking	31.23	1/3/08	1/3/08	EQ Detroit, MI
2889733 JJK	Price Trucking	36.07	1/3/08	1/3/08	EQ Detroit, MI
2889738 JJK	Page E.T.C. INC.	22.59	1/3/08	1/3/08	EQ Detroit, MI
1592540 FLE	Price Trucking	33.19	1/3/08	1/3/08	Envirite of Ohio, Inc. Canton, OH
1592803 FLE	Price Trucking	36.64	1/3/08	1/3/08	Envirite of Ohio, Inc. Canton, OH
1592806 FLE	Price Trucking	35.85	1/3/08	1/3/08	Envirite of Ohio, Inc. Canton, OH
1592813 FLE	Price Trucking	22.93	1/3/08	1/3/08	Envirite of Ohio, Inc. Canton, OH
2889731 JJK	Page E.T.C. INC.	22.78	1/3/08	1/3/08	EQ Detroit, MI
1592804 FLE	Price Trucking	34.42	1/4/08	1/4/08	Envirite of Ohio, Inc. Canton, OH
1592805 FLE	Price Trucking	34.02	1/4/08	1/4/08	Envirite of Ohio, Inc. Canton, OH
1592807 FLE	Price Trucking	33.22	1/4/08	1/7/08	Envirite of Ohio, Inc. Canton, OH
1592809 FLE	Price Trucking	33.9	1/4/08	1/4/08	Envirite of Ohio, Inc. Canton, OH
1592811 FLE	Price Trucking	27.12	1/4/08	1/7/08	Envirite of Ohio, Inc. Canton, OH
2889753 JJK	Price Trucking	35.2	1/4/08	1/7/08	EQ Detroit, MI
2889754 JJK	Price Trucking	33.59	1/4/08	1/8/08	EQ Detroit, MI
2889755 JJK	Price Trucking	30.34	1/4/08	1/7/08	EQ Detroit, MI
2889756 JJK	Page E.T.C. INC.	22.99	1/4/08	1/4/08	EQ Detroit, MI
2889734 JJK	Page E.T.C. INC.	22.82	1/4/08	1/4/08	EQ Detroit, MI
2889735 JJK	Price Trucking	30.97	1/4/08	1/8/08	EQ Detroit, MI
1592802 FLE	Price Trucking	32.5	1/7/08	1/7/08	Envirite of Ohio, Inc. Canton, OH
1592814 FLE	Price Trucking	33.95	1/7/08	1/7/08	Envirite of Ohio, Inc. Canton, OH
1592901 FLE	Price Trucking	27.77	1/7/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592913 FLE	Price Trucking	34.47	1/7/08	1/7/08	Envirite of Ohio, Inc. Canton, OH
2889748 JJK	Price Trucking	33.19	1/7/08	1/8/08	EQ Detroit, MI
2889750 JJK	Page E.T.C. INC.	23.59	1/7/08	1/7/08	EQ Detroit, MI
2889751 JJK	Page E.T.C. INC.	22.7	1/7/08	1/7/08	EQ Detroit, MI

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2889752 JJK	Page E.T.C. INC.	23.13	1/7/08	1/7/08	EQ Detroit, MI
1592898 FLE	Price Trucking	38.12	1/8/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592900 FLE	Price Trucking	33.61	1/8/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592902 FLE	Price Trucking	33.77	1/8/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592903 FLE	Price Trucking	35.42	1/8/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592904 FLE	Price Trucking	36.35	1/8/08	1/8/08	Envirite of Ohio, Inc. Canton, OH
1592905 FLE	Price Trucking	31.29	1/8/08	1/9/08	Envirite of Ohio, Inc. Canton, OH
2889739 JJK	Price Trucking	35.17	1/8/08	1/8/08	EQ Detroit, MI
2889740 JJK	Price Trucking	33.85	1/8/08	1/9/08	EQ Detroit, MI
2889746 JJK	Page E.T.C. INC.	24.13	1/8/08	1/8/08	EQ Detroit, MI
2889747 JJK	Page E.T.C. INC.	23.86	1/8/08	1/8/08	EQ Detroit, MI
2889749 JJK	Page E.T.C. INC.	24.02	1/8/08	1/8/08	EQ Detroit, MI
2889775 JJK	Price Trucking	35.82	1/8/08	1/9/08	EQ Detroit, MI
2889741 JJK	Page E.T.C. INC.	23.6	1/9/08	1/9/08	EQ Detroit, MI
2889742 JJK	Page E.T.C. INC.	25.06	1/9/08	1/9/08	EQ Detroit, MI
2889743 JJK	Price Trucking	30.6	1/9/08	1/9/08	EQ Detroit, MI
2889744 JJK	Price Trucking	33.3	1/9/08	1/9/08	EQ Detroit, MI
1592896 FLE	Price Trucking	28.81	1/9/08	1/10/08	Envirite of Ohio, Inc. Canton, OH
1592897 FLE	Price Trucking	30.55	1/9/08	1/10/08	Envirite of Ohio, Inc. Canton, OH
1592906 FLE	Price Trucking	34.9	1/9/08	1/9/08	Envirite of Ohio, Inc. Canton, OH
1592907 FLE	Price Trucking	31.97	1/9/08	1/9/08	Envirite of Ohio, Inc. Canton, OH
1592909 FLE	Price Trucking	37.2	1/9/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
1592911 FLE	Price Trucking	32.1	1/9/08	1/9/08	Envirite of Ohio, Inc. Canton, OH
2889745 JJK	Page E.T.C. INC.	24.37	1/10/08	1/10/08	EQ Detroit, MI
2889760 JJK	Price Trucking	23.72	1/10/08	1/10/08	EQ Detroit, MI
2889763 JJK	Page E.T.C. INC.	23.27	1/10/08	1/10/08	EQ Detroit, MI
2889764 JJK	Page E.T.C. INC.	23.89	1/10/08	1/10/08	EQ Detroit, MI
2889765 JJK	Price Trucking	25.38	1/10/08	1/10/08	EQ Detroit, MI
2889766 JJK	Price Trucking	33.37	1/10/08	1/10/08	EQ Detroit, MI
2889767 JJK	Price Trucking	31.46	1/10/08	1/11/08	EQ Detroit, MI
2889769 JJK	Price Trucking	41.29	1/10/08	1/11/08	EQ Detroit, MI
1592888 FLE	Price Trucking	33.09	1/10/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
1592889 FLE	Price Trucking	30.19	1/10/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
1592890 FLE	Price Trucking	34.32	1/10/08	1/10/08	Envirite of Ohio, Inc. Canton, OH
1592891 FLE	Price Trucking	34.88	1/10/08	1/10/08	Envirite of Ohio, Inc. Canton, OH
1592899 FLE	Price Trucking	33.78	1/10/08	1/10/08	Envirite of Ohio, Inc. Canton, OH
1592894 FLE	Price Trucking	36.91	1/11/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
1592877 FLE	Price Trucking	33.67	1/11/08	1/14/08	Envirite of Ohio, Inc. Canton, OH
1592892 FLE	Price Trucking	35.6	1/11/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
1592893 FLE	Price Trucking	35	1/11/08	1/11/08	Envirite of Ohio, Inc. Canton, OH
2889768 JJK	Page E.T.C. INC.	23.36	1/11/08	1/11/08	EQ Detroit, MI
2889770 JJK	Page E.T.C. INC.	22.7	1/11/08	1/11/08	EQ Detroit, MI
2889771 JJK	Price Trucking	26.4	1/11/08	1/14/08	EQ Detroit, MI
2889772 JJK	Price Trucking	35.56	1/11/08	1/14/08	EQ Detroit, MI
1592895 FLE	Price Trucking	36.65	1/11/08	1/14/08	Envirite of Ohio, Inc. Canton, OH
1592510 FLE	Price Trucking	30.75	1/11/08	1/14/08	Envirite of Ohio, Inc. Canton, OH

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2889702 JJK	Price Trucking	39.83	1/14/08	1/15/08	EQ Detroit, MI
1592876 FLE	Price Trucking	33.88	1/14/08	1/14/08	Envirite of Ohio, Inc. Canton OH
1592878 FLE	Price Trucking	36.46	1/14/08	1/14/08	EQ Detroit, MI
1592879 FLE	Price Trucking	35.13	1/14/08	1/15/08	Envirite of Ohio, Inc. Canton, OH
1592880 FLE	Price Trucking	31.94	1/14/08	1/15/08	Envirite of Ohio, Inc. Canton OH
1592881 FLE	Price Trucking	33.4	1/14/08	1/14/08	Envirite of Ohio, Inc. Canton OH
1592883 FLE	Price Trucking	32.32	1/14/08	1/15/08	Envirite of Ohio, Inc. Canton, OH
2889758 JJK	Page E.T.C. INC.	24.8	1/14/08	1/14/08	EQ Detroit, MI
2889759 JJK	Price Trucking	34.59	1/14/08	1/14/08	EQ Detroit, MI
2889773 JJK	Page E.T.C. INC.	23.72	1/14/08	1/14/08	EQ Detroit, MI
2889774 JJK	Page E.T.C. INC.	23.68	1/14/08	1/14/08	EQ Detroit, MI
1592503 FLE	Price Trucking	38.38	1/15/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592844 FLE	Price Trucking	28.56	1/15/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592882 FLE	Price Trucking	34.58	1/15/08	1/15/08	Envirite of Ohio, Inc. Canton OH
1592884 FLE	Price Trucking	32.18	1/15/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592885 FLE	Price Trucking	37.13	1/15/08	1/15/08	Envirite of Ohio, Inc. Canton OH
1592886 FLE	Price Trucking	32.88	1/15/08	1/15/08	Envirite of Ohio, Inc. Canton OH
1592887 FLE	Price Trucking	36.86	1/15/08	1/16/08	Envirite of Ohio, Inc. Canton OH
2859961 JJK	Page E.T.C. INC.	22.23	1/15/08	1/15/08	EQ Detroit, MI
2887298 JJK	Price Trucking	35.65	1/15/08	1/16/08	EQ Detroit, MI
2887299 JJK	Page E.T.C. INC.	23.5	1/15/08	1/15/08	EQ Detroit, MI
2887300 JJK	Page E.T.C. INC.	24.63	1/15/08	1/15/08	EQ Detroit, MI
2887312 JJK	Price Trucking	29.56	1/15/08	1/15/08	EQ Detroit, MI
2887313 JJK	Price Trucking	31.33	1/15/08	1/15/08	EQ Detroit, MI
1400981 FLE	Price Trucking	37.54	1/16/08	1/17/08	Envirite of Ohio, Inc. Canton OH
1592501 FLE	Price Trucking	35.27	1/16/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592502 FLE	Price Trucking	32.17	1/16/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592869 FLE	Price Trucking	34.64	1/16/08	1/17/08	Envirite of Ohio, Inc. Canton OH
1592871 FLE	Price Trucking	32.56	1/16/08	1/16/08	Envirite of Ohio, Inc. Canton OH
1592873 FLE	Price Trucking	37.4	1/16/08	1/17/08	Envirite of Ohio, Inc. Canton OH
1592874 FLE	Price Trucking	29.11	1/16/08	1/17/08	Envirite of Ohio, Inc. Canton OH
2887295 JJK	Page E.T.C. INC.	23.01	1/16/08	1/16/08	EQ Detroit, MI
2887296 JJK	Page E.T.C. INC.	24.36	1/16/08	1/16/08	EQ Detroit, MI
2887297 JJK	Page E.T.C. INC.	22.75	1/16/08	1/16/08	EQ Detroit, MI
2887309 JJK	Price Trucking	40.84	1/16/08	1/18/08	EQ Detroit, MI
2887310 JJK	Price Trucking	33.2	1/16/08	1/16/08	EQ Detroit, MI
2887311 JJK	Price Trucking	30.48	1/16/08	1/16/08	EQ Detroit, MI
2889703 JJK	Price Trucking	35.44	1/14/08	1/15/08	EQ Detroit, MI
1592846 FLE	Price Trucking	37.57	1/17/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592848 FLE	Price Trucking	32.23	1/17/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592850 FLE	Price Trucking	34.93	1/17/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592851 FLE	Price Trucking	35.14	1/17/08	1/17/08	Envirite of Ohio, Inc. Canton OH
1592852 FLE	Price Trucking	32.93	1/17/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592853 FLE	Price Trucking	37.25	1/17/08	1/17/08	Envirite of Ohio, Inc. Canton OH
1592875 FLE	Price Trucking	34.27	1/17/08	1/17/08	Envirite of Ohio, Inc. Canton OH
2887293 JJK	Price Trucking	26.65	1/17/08	1/18/08	EQ Detroit, MI

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2887294 JJK	Page E.T.C. INC.	23.12	1/17/08	1/17/08	EQ Detroit, MI
2887303 JJK	Price Trucking	30.28	1/17/08	1/17/08	EQ Detroit, MI
2887304 JJK	Price Trucking	31.1	1/17/08	1/17/08	EQ Detroit, MI
2887305 JJK	Page E.T.C. INC.	21.73	1/17/08	1/17/08	EQ Detroit, MI
2887306 JJK	Page E.T.C. INC.	22.33	1/17/08	1/17/08	EQ Detroit, MI
2887307 JJK	Price Trucking	26.28	1/17/08	1/17/08	EQ Detroit, MI
2887308 JJK	Price Trucking	36.38	1/17/08	1/17/08	EQ Detroit, MI
1587303 FLE	Price Trucking	29.34	1/18/08	1/21/08	Envirite of Ohio, Inc. Canton OH
1592845 FLE	Price Trucking	38.58	1/18/08	1/21/08	Envirite of Ohio, Inc. Canton OH
1592849 FLE	Price Trucking	32.52	1/18/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592865 FLE	Price Trucking	36.59	1/18/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592866 FLE	Price Trucking	34.63	1/18/08	1/18/08	Envirite of Ohio, Inc. Canton OH
1592868 FLE	Price Trucking	32.22	1/18/08	1/21/08	Envirite of Ohio, Inc. Canton OH
2887289 JJK	Price Trucking	28.63	1/21/08	1/21/08	EQ Detroit, MI
2887292 JJK	Price Trucking	35.65	1/18/08	1/21/08	EQ Detroit, MI
2887302 JJK	Price Trucking	31.26	1/18/08	1/21/08	EQ Detroit, MI
1592862 FLE	Price Trucking	32.72	1/21/08	1/22/08	Envirite of Ohio, Inc. Canton OH
1592863 FLE	Price Trucking	35.21	1/21/08	1/22/08	Envirite of Ohio, Inc. Canton OH
1592864 FLE	Price Trucking	35.07	1/21/08	1/21/08	Envirite of Ohio, Inc. Canton OH
2887287 JJK	Price Trucking	35.32	1/21/08	1/22/08	EQ Detroit, MI
2887288 JJK	Page E.T.C. INC.	22.19	1/21/08	1/22/08	EQ Detroit, MI
2887290 JJK	Page E.T.C. INC.	28.99	1/21/08	1/21/08	EQ Detroit, MI
2887291 JJK	Price Trucking	29.43	1/21/08	1/21/08	EQ Detroit, MI
2887301 JJK	Page E.T.C. INC.	22.92	1/21/08	1/21/08	EQ Detroit, MI
1592512 FLE	Price Trucking	28.32	1/22/08	1/23/08	Envirite of Ohio, Inc. Canton OH
1592514 FLE	Price Trucking	36.09	1/22/08	1/23/08	Envirite of Ohio, Inc. Canton OH
1592516 FLE	Price Trucking	34.61	1/22/08	1/22/08	Envirite of Ohio, Inc. Canton OH
1592549 FLE	Price Trucking	33.93	1/22/08	1/22/08	Envirite of Ohio, Inc. Canton OH
1592564 FLE	Price Trucking	34.94	1/22/08	1/22/08	Envirite of Ohio, Inc. Canton OH
1592841 FLE	Price Trucking	32.98	1/22/08	1/23/08	Envirite of Ohio, Inc. Canton OH
2887277 JJK	Page E.T.C. INC.	22.42	1/22/08	1/23/08	EQ Detroit, MI
2887278 JJK	Price Trucking	32.58	1/22/08	1/23/08	EQ Detroit, MI
2887282 JJK	Price Trucking	34.4	1/22/08	1/22/08	EQ Detroit, MI
2887283 JJK	Price Trucking	35.79	1/22/08	1/22/08	EQ Detroit, MI
2887284 JJK	Price Trucking	30.4	1/22/08	1/22/08	EQ Detroit, MI
2887285 JJK	Page E.T.C. INC.	25.14	1/22/08	1/22/08	EQ Detroit, MI
2887286 JJK	Page E.T.C. INC.	24.3	1/22/08	1/22/08	EQ Detroit, MI
1592506 FLE	Price Trucking	34.43	1/23/08	1/23/08	Envirite of Ohio, Inc. Canton OH
1592837 FLE	Price Trucking	33.8	1/23/08	1/23/08	Envirite of Ohio, Inc. Canton OH
1592839 FLE	Price Trucking	35.31	1/23/08	1/24/08	Envirite of Ohio, Inc. Canton OH
1592858 FLE	Price Trucking	30.09	1/23/08	1/24/08	Envirite of Ohio, Inc. Canton OH
1592859 FLE	Price Trucking	35.51	1/23/08	1/24/08	Envirite of Ohio, Inc. Canton OH
1592860 FLE	Price Trucking	32.14	1/23/08	1/23/08	Envirite of Ohio, Inc. Canton OH
2887264 JJK	Price Trucking	32.18	1/23/08	1/23/08	EQ Detroit, MI
2887265 JJK	Price Trucking	34.79	1/23/08	1/23/08	EQ Detroit, MI
2887279 JJK	Page E.T.C. INC.	23.12	1/23/08	1/23/08	EQ Detroit, MI

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2887280 JJK	Price Trucking	36.51	1/23/08	1/23/08	EQ Detroit, MI
2887281 JJK	Price Trucking	37.07	1/23/08	1/23/08	EQ Detroit, MI
2887344 JJK	Price Trucking	34.92	1/23/08	1/24/08	EQ Detroit, MI
2890226 JJK	Page E.T.C. INC.	25.49	1/23/08	1/23/08	EQ Detroit, MI
1587286 FLE	Price Trucking	33.78	1/24/08	1/25/08	Envirite of Ohio, Inc. Canton OH
1587301 FLE	Price Trucking	33.46	1/24/08	1/25/08	Envirite of Ohio, Inc. Canton OH
1592606 FLE	Price Trucking	30.23	1/24/08	1/25/08	Envirite of Ohio, Inc. Canton OH
1592847 FLE	Price Trucking	33.26	1/24/08	1/24/08	Envirite of Ohio, Inc. Canton OH
1592855 FLE	Price Trucking	37.89	1/24/08	1/24/08	Envirite of Ohio, Inc. Canton OH
1592856 FLE	Price Trucking	38.35	1/24/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1592857 FLE	Price Trucking	33.82	1/24/08	1/24/08	Envirite of Ohio, Inc. Canton OH
2887266 JJK	Page E.T.C. INC.	23.46	1/24/08	1/24/08	EQ Detroit, MI
2887267 JJK	Price Trucking	36.08	1/24/08	1/24/08	EQ Detroit, MI
2887268 JJK	Price Trucking	36.41	1/24/08	1/24/08	EQ Detroit, MI
2887269 JJK	Page E.T.C. INC.	24.44	1/24/08	1/25/08	EQ Detroit, MI
2887270 JJK	Price Trucking	34.35	1/24/08	1/25/08	EQ Detroit, MI
2887333 JJK	Price Trucking	33.01	1/24/08	1/28/08	EQ Detroit, MI
2887343 JJK	Page E.T.C. INC.	22.2	1/24/08	1/24/08	EQ Detroit, MI
1592604 FLE	Price Trucking	35.73	1/25/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1592605 FLE	Price Trucking	34.94	1/25/08	1/25/08	Envirite of Ohio, Inc. Canton OH
1592842 FLE	Price Trucking	35.5	1/25/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1592843 FLE	Price Trucking	30.24	1/25/08	1/28/08	Envirite of Ohio, Inc. Canton OH
2887331 JJK	Page E.T.C. INC.	21.34	1/25/08	1/25/08	EQ Detroit, MI
2887332 JJK	Page E.T.C. INC.	22.15	1/25/08	1/25/08	EQ Detroit, MI
1400982 FLE	Price Trucking	32.89	1/28/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1587296 FLE	Price Trucking	36.65	1/28/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1587350 FLE	Price Trucking	36.96	1/28/08	1/28/08	Envirite of Ohio, Inc. Canton OH
1587352 FLE	Price Trucking	35.51	1/28/08	1/29/08	Envirite of Ohio, Inc. Canton OH
2887271 JJK	Page E.T.C. INC.	24.33	1/28/08	1/28/08	EQ Detroit, MI
2887272 JJK	Page E.T.C. INC.	23.53	1/28/08	1/28/08	EQ Detroit, MI
2887273 JJK	Price Trucking	32.65	1/28/08	1/28/08	EQ Detroit, MI
2887274 JJK	Price Trucking	34.1	1/28/08	1/28/08	EQ Detroit, MI
2887275 JJK	Price Trucking	35.82	1/28/08	1/28/08	EQ Detroit, MI
2887276 JJK	Page E.T.C. INC.	23.73	1/28/08	1/29/08	EQ Detroit, MI
2887339 JJK	Price Trucking	37.56	1/28/08	1/31/08	EQ Detroit, MI
1400989 FLE	Price Trucking	35.26	1/29/08	1/29/08	Envirite of Ohio, Inc. Canton OH
1400991 FLE	Price Trucking	36.51	1/29/08	1/29/08	Envirite of Ohio, Inc. Canton OH
1400994 FLE	Price Trucking	29.72	1/29/08	1/29/08	Envirite of Ohio, Inc. Canton OH
1587297 FLE	Price Trucking	38.56	1/29/08	1/30/08	Envirite of Ohio, Inc. Canton OH
2887334 JJK	Price Trucking	36.96	1/29/08	1/30/08	EQ Detroit, MI
2887335 JJK	Price Trucking	37.89	1/29/08	1/29/08	EQ Detroit, MI
2887336 JJK	Price Trucking	33.75	1/29/08	1/29/08	EQ Detroit, MI
2887337 JJK	Page E.T.C. INC.	24.47	1/29/08	1/29/08	EQ Detroit, MI
2887338 JJK	Page E.T.C. INC.	24.34	1/29/08	1/29/08	EQ Detroit, MI
2887354 JJK	Price Trucking	42.27	1/29/08	1/29/08	EQ Detroit, MI
2887355 JJK	Price Trucking	40.14	1/29/08	1/30/08	EQ Detroit, MI

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
1400996 FLE	Price Trucking	35.77	1/30/08	1/30/08	Envirite of Ohio, Inc. Canton OH
1592609 FLE	Price Trucking	38.42	1/30/08	2/1/08	Envirite of Ohio, Inc. Canton OH
1592610 FLE	Price Trucking	29.34	1/30/08	1/31/08	Envirite of Ohio, Inc. Canton OH
2887353 JJK	Page E.T.C. INC.	25.15	1/30/08	1/30/08	EQ Detroit, MI
1592603 FLE	Price Trucking	38.53	1/31/08	2/4/08	Envirite of Ohio, Inc. Canton OH
1592607 FLE	Price Trucking	34.91	1/31/08	1/31/08	Envirite of Ohio, Inc. Canton OH
1592608 FLE	Price Trucking	33.79	1/31/08	1/31/08	Envirite of Ohio, Inc. Canton OH
2887326 JJK	Price Trucking	23.34	1/31/08	1/31/08	EQ Detroit, MI
2887327 JJK	Price Trucking	24.67	1/31/08	2/1/08	EQ Detroit, MI
2887328 JJK	Page E.T.C. INC.	25.63	1/31/08	1/31/08	EQ Detroit, MI
2887329 JJK	Page E.T.C. INC.	23.82	1/31/08	1/31/08	EQ Detroit, MI
2887330 JJK	Page E.T.C. INC.	23.19	1/30/08	1/30/08	EQ Detroit, MI
2887346 JJK	Price Trucking	24.35	1/31/08	2/7/08	EQ Detroit, MI
2887347 JJK	Price Trucking	23.85	1/31/08	2/1/08	EQ Detroit, MI
2887348 JJK	Page E.T.C. INC.	23.69	1/31/08	2/4/08	EQ Detroit, MI
2887349 JJK	Price Trucking	29.66	1/31/08	1/31/08	EQ Detroit, MI
2887350 JJK	Price Trucking	26.65	1/31/08	1/31/08	EQ Detroit, MI
2887351 JJK	Price Trucking	22.66	1/31/08	1/31/08	EQ Detroit, MI
2887352 JJK	Price Trucking	23.8	1/30/08	1/31/08	EQ Detroit, MI
1592585 FLE	Price Trucking	34.47	2/1/08	2/1/08	Envirite of Ohio, Inc. Canton OH
1592586 FLE	Price Trucking	28.44	2/1/08	2/1/08	Envirite of Ohio, Inc. Canton OH
1587306 FLE	Price Trucking	38.71	2/4/08	2/5/08	Envirite of Ohio, Inc. Canton OH
1592567 FLE	Price Trucking	35.07	2/4/08	2/4/08	Envirite of Ohio, Inc. Canton OH
1592579 FLE	Price Trucking	38.17	2/4/08	2/4/08	Envirite of Ohio, Inc. Canton OH
1592580 FLE	Price Trucking	32.18	2/4/08	2/6/08	Envirite of Ohio, Inc. Canton OH
2887324 JJK	Price Trucking	24.48	2/1/08	2/4/08	EQ Detroit, MI
2887340 JJK	Price Trucking	30.2	2/4/08	2/6/08	EQ Detroit, MI
2887341 JJK	Price Trucking	24.93	2/4/08	2/5/08	EQ Detroit, MI
2887342 JJK	Price Trucking	26.4	2/4/08	2/4/08	EQ Detroit, MI
2887345 JJK	Price Trucking	29.74	2/4/08	2/4/08	EQ Detroit, MI
1592578 FLE	Price Trucking	34.62	2/5/08	2/5/08	Envirite of Ohio, Inc. Canton OH
1592581 FLE	Price Trucking	34.9	2/5/08	2/5/08	Envirite of Ohio, Inc. Canton OH
2887319 JJK	Price Trucking	26.44	2/5/08	2/5/08	EQ Detroit, MI
2887322 JJK	Price Trucking	29.74	2/5/08	2/5/08	EQ Detroit, MI
2890227 JJK	Price Trucking	23.66	2/5/08	2/5/08	EQ Detroit, MI
2890228 JJK	Price Trucking	29.07	2/5/08	2/5/08	EQ Detroit, MI
1592571 FLE	Price Trucking	32.49	2/6/08	2/6/08	Envirite of Ohio, Inc. Canton OH
1592574 FLE	Price Trucking	35.37	2/6/08	2/6/08	Envirite of Ohio, Inc. Canton OH
1592573 FLE	Price Trucking	30.39	2/7/08	2/7/08	Envirite of Ohio, Inc. Canton OH
1592575 FLE	Price Trucking	30.65	2/7/08	2/7/08	Envirite of Ohio, Inc. Canton OH
1592576 FLE	Price Trucking	37.15	2/7/08	2/7/08	Envirite of Ohio, Inc. Canton OH
1592600 FLE	Price Trucking	39.74	2/7/08	2/14/08	Envirite of Ohio, Inc. Canton OH
2887314 JJK	Price Trucking	24.08	2/7/08	2/7/08	EQ Detroit, MI
2887315 JJK	Price Trucking	26.14	2/6/08	2/6/08	EQ Detroit, MI
2887316 JJK	Price Trucking	24.44	2/6/08	2/7/08	EQ Detroit, MI
2887317 JJK	Price Trucking	27.17	2/6/08	2/6/08	EQ Detroit, MI

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
2887318 JJK	Price Trucking	32.17	2/6/08	2/6/08	EQ Detroit, MI
1587304 FLE	Price Trucking	39.65	2/8/08	2/12/08	Envirite of Ohio, Inc. Canton OH
1592566 FLE	Price Trucking	39.52	2/8/08	2/14/08	Envirite of Ohio, Inc. Canton OH
1592570 FLE	Price Trucking	38.32	2/8/08	2/8/08	Envirite of Ohio, Inc. Canton OH
1592572 FLE	Price Trucking	29.42	2/8/08	2/8/08	Envirite of Ohio, Inc. Canton OH
1592587 FLE	Price Trucking	38.67	2/8/08	2/11/08	Envirite of Ohio, Inc. Canton OH
1592592 FLE	Price Trucking	32.04	2/8/08	2/8/08	Envirite of Ohio, Inc. Canton OH
1592867 FLE	Price Trucking	26.77	1/18/08	2/8/08	Envirite of Ohio, Inc. Canton OH
1592601 FLE	Price Trucking	37.84	2/5/08	2/7/08	Envirite of Ohio, Inc. Canton OH
1592565 FLE	Price Trucking	37.1	2/8/08	2/11/08	Envirite of Ohio, Inc. Canton OH
2887323 JJK	Price Trucking	32.28	2/4/08	2/13/08	EQ Detroit, MI
2887325 JJK	Page E.T.C. INC.	22.69	2/1/08	2/4/08	EQ Detroit, MI
1593653 FLE	Price Trucking	35.42	8/8/08	8/12/08	Envirite of Ohio, Inc. Canton OH
1593672 FLE	Price Trucking	33.77	8/8/08	8/11/08	Envirite of Ohio, Inc. Canton OH
1593652 FLE	Price Trucking	32.75	8/8/08	8/11/08	Envirite of Ohio, Inc. Canton OH
1593670 FLE	Price Trucking	39.63	8/11/08	8/12/08	Envirite of Ohio, Inc. Canton OH
1593671 FLE	Price Trucking	33.34	8/11/08	8/12/08	Envirite of Ohio, Inc. Canton OH
1593669 FLE	Price Trucking	34.98	8/11/08	8/12/08	Envirite of Ohio, Inc. Canton OH
1593647 FLE	Price Trucking	34.16	8/12/08	8/12/08	Envirite of Ohio, Inc. Canton OH
1593648 FLE	Price Trucking	33.35	8/12/08	8/13/08	Envirite of Ohio, Inc. Canton OH
1593661 FLE	Price Trucking	44.11	8/12/08	8/13/08	Envirite of Ohio, Inc. Canton OH
1593649 FLE	Price Trucking	36.12	8/12/08	8/13/08	Envirite of Ohio, Inc. Canton OH
1593644 FLE	Price Trucking	37.41	8/13/08	8/14/08	Envirite of Ohio, Inc. Canton OH
1593645 FLE	Price Trucking	35.61	8/13/08	8/14/08	Envirite of Ohio, Inc. Canton OH
1593668 FLE	Price Trucking	36.28	8/13/08	8/14/08	Envirite of Ohio, Inc. Canton OH
1593667 FLE	Price Trucking	37.78	8/13/08	8/14/08	Envirite of Ohio, Inc. Canton OH
1592594 FLE	Price Trucking	36.19	8/14/08	8/15/08	Envirite of Ohio, Inc. Canton OH
1592595 FLE	Price Trucking	33.02	8/14/08	8/15/08	Envirite of Ohio, Inc. Canton OH
1592596 FLE	Price Trucking	40.18	8/14/08	8/15/08	Envirite of Ohio, Inc. Canton OH
1592597 FLE	Price Trucking	36.31	8/14/08	8/15/08	Envirite of Ohio, Inc. Canton OH
1593658 FLE	Price Trucking	33.9	8/18/08	8/20/08	Envirite of Ohio, Inc. Canton OH
1593657 FLE	Price Trucking	34.19	8/19/08	8/20/08	Envirite of Ohio, Inc. Canton OH
1593659 FLE	Price Trucking	37.22	8/19/08	8/20/08	Envirite of Ohio, Inc. Canton OH
1593656 FLE	Price Trucking	35.57	8/19/08	8/20/08	Envirite of Ohio, Inc. Canton OH
1593663 FLE	Price Trucking	29.4	8/20/08	8/21/08	Envirite of Ohio, Inc. Canton OH
3901991 JJK	Price Trucking	34.04	8/20/08	8/21/08	Envirite of Ohio, Inc. Canton OH
1593664 FLE	Price Trucking	32.56	8/20/08	8/21/08	Envirite of Ohio, Inc. Canton OH
1593666 FLE	Price Trucking	32.77	8/21/08	8/21/08	Envirite of Ohio, Inc. Canton OH
1592414 FLE	Price Trucking	38.84	8/21/08	8/22/08	Envirite of Ohio, Inc. Canton OH
1592431 FLE	Price Trucking	34.56	8/21/08	8/22/08	Envirite of Ohio, Inc. Canton OH
1592430 FLE	Price Trucking	33.27	8/21/08	8/22/08	Envirite of Ohio, Inc. Canton OH
1592442 FLE	Price Trucking	32.01	8/22/08	8/22/08	Envirite of Ohio, Inc. Canton OH
1592440 FLE	Price Trucking	34.89	8/22/08	8/25/08	Envirite of Ohio, Inc. Canton OH
1593660 FLE	Price Trucking	36.37	8/25/08	8/25/08	Envirite of Ohio, Inc. Canton OH
1592441 FLE	Price Trucking	34.02	8/22/08	8/25/08	Envirite of Ohio, Inc. Canton OH
1592438 FLE	Price Trucking	36.32	8/25/08	8/26/08	Envirite of Ohio, Inc. Canton OH

Table 2
Norampac Industries
3241 Walden Ave., Depew, N.Y. 14303
Waste Disposal Information Summary

Manifest Tracking No.	Transporter	Tonnage	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
1592443 FLE	Price Trucking	34.82	8/25/08	8/26/08	Envirite of Ohio, Inc. Canton OH
1592444 FLE	Price Trucking	34.54	8/25/08	8/26/08	Envirite of Ohio, Inc. Canton OH
1592448 FLE	Price Trucking	34.45	8/25/08	8/26/08	Envirite of Ohio, Inc. Canton OH
1592446 FLE	Price Trucking	37.46	8/26/08	8/28/08	Envirite of Ohio, Inc. Canton OH
1592445 FLE	Price Trucking	35.02	8/26/08	8/28/08	Envirite of Ohio, Inc. Canton OH
1592447 FLE	Price Trucking	32.72	8/26/08	8/28/08	Envirite of Ohio, Inc. Canton OH
1593650 FLE	Price Trucking	36.79	8/26/08	8/28/08	Envirite of Ohio, Inc. Canton OH
1593665 FLE	Price Trucking	35.06	8/26/08	8/28/08	Envirite of Ohio, Inc. Canton OH
1592435 FLE	Price Trucking	34.11	8/28/08	8/29/08	Envirite of Ohio, Inc. Canton OH
1592436 FLE	Price Trucking	35.81	8/28/08	8/29/08	Envirite of Ohio, Inc. Canton OH
1592434 FLE	Price Trucking	36.43	8/28/08	8/29/08	Envirite of Ohio, Inc. Canton OH
1592433 FLE	Price Trucking	33.49	8/29/08	8/29/08	Envirite of Ohio, Inc. Canton OH
1592437 FLE	Price Trucking	38.04	8/29/08	9/2/08	Envirite of Ohio, Inc. Canton OH
1592415 FLE	Price Trucking	36.46	8/29/08	9/2/08	Envirite of Ohio, Inc. Canton OH
1592428 FLE	Price Trucking	33.63	8/29/08	9/2/08	Envirite of Ohio, Inc. Canton OH
1592427 FLE	Price Trucking	37.84	8/29/08	9/3/08	Envirite of Ohio, Inc. Canton OH
1592416 FLE	Price Trucking	35.58	9/2/08	9/3/08	Envirite of Ohio, Inc. Canton OH
1592418 FLE	Price Trucking	39.2	9/2/08	9/3/08	Envirite of Ohio, Inc. Canton OH
1592419 FLE	Price Trucking	19.84	9/3/08	9/4/08	Envirite of Ohio, Inc. Canton OH
1592426 FLE	Price Trucking	35.89	8/29/08	9/10/08	Envirite of Ohio, Inc. Canton OH
1592429 FLE	Price Trucking	40.51	8/29/08	9/12/08	Envirite of Ohio, Inc. Canton OH
1592417 FLE	Price Trucking	36.92	9/3/08	9/12/08	Envirite of Ohio, Inc. Canton OH
1592432 FLE	Price Trucking	37.38	8/28/08	9/8/08	Envirite of Ohio, Inc. Canton OH
1592425 FLE	Price Trucking	36.97	8/29/08	9/15/08	Envirite of Ohio, Inc. Canton OH

Liquid Waste

Manifest Tracking No.	Transporter	Pounds	Date Removed from Site	Date Recieved at Disposal Facility	Disposal Facility
3901591 JJK	Frank's Vacuum Truck	2,028	6/19/2008	6/19/2008	CWM Chemical Services, LLC. Model City, NY
5090654	Frank's Vacuum Truck	300	9/28/2008	9/28/2008	CWM Chemical Services, LLC. Model City, NY

Tighe&Bond

APPENDIX A

County of Erie

ANDREW M. ESZAK, AICP
COMMISSIONER

DEPARTMENT OF ENVIRONMENT & PLANNING

JOEL A. GIAMBRA
COUNTY EXECUTIVE

THOMAS J. WHETHAM, P.E.
DEPUTY COMMISSIONER
SEWERAGE MANAGEMENT

November 28, 2007

Mr. Brian Conte
Environmental Scientist
Tighe and Bond Inc.
213 Court Street
Middletown, Connecticut 06457

Re: Erie County Sewer District No.4
Discharge Request – 3241 Walden Avenue
Lancaster, New York

Dear Mr. Conte:

The Division of Sewerage Management (DSM) and the Buffalo Sewer Authority (BSA) have reviewed the request to discharge up to 200,000 gallons of water resulting from precipitation accumulated at the lead contaminated excavation site. The discharge request states that the wastewater is being collected and held in Baker tanks prior to filtering and discharge to the sewer. Based on the information provided, the request to discharge the contaminated water has been approved under the following conditions:

1. Notification to the Erie County Sewer District No. 4 office must be made at least twenty- four hours prior to initiating the discharge (tel. 684-1234) and seventy-two hours notice to Buffalo Sewer Authority (tel. 883-1820 ext 256).

2. A contact name and number for person responsible for discharge must be provided to the Sewer District office upon receipt of Permit.

3. Once the initial discharge has commenced, notification to the ECSD No. 4 office is required each day that discharge will be taking place.

4. A Sewer District representative shall be present upon initiation of discharge.

5. The wastewater must be filtered, as described, prior to discharge.

6. The flow shall be metered via a totalizer, as discussed, and the final volume discharged shall be reported to this office.

7. The flow shall enter the sanitary sewer system at the discharge point designated by Erie County Sewer District No. 4 (ECSD No. 4).

8. Discharge is prohibited during wet weather events.

9. If at any time a problem arises in the collection system, as a result of the discharge, the District may require that operations cease.

To obtain the Permit to discharge, please bring this letter with payment to the Northern Region District office located at 3789 Walden Avenue, Lancaster, New York. A check or money order in the amount of $702.00 made payable to: "Erie County Director of Budget and Finance" will cover the permit/inspection fee of $502.00 and the $200.00 fee for the initial 91,250 gallons discharged. The additional wastewater will be billed at a rate of $2.20/1,000 gallons. The balance due will be billed to your office.

If you should have any questions or concerns, please contact me at 823-8188, ext. 227.

Very truly yours,

Nicole J. Elliott
Industrial Wastewater Specialist

cc: G. Absolom/L. Surdej/4.2.4 Pretreat
K. Zynda/P. Breier
J. Kruszka (BSA)

		SSD283		
DATE	START TIME	RUN TIME (Hrs)	TWA	PEAK READING
10/22/2007	8:35	8	8	37.02
10/24/2007	8:51	7.5	19.77	312.5
10/25/2007	8:11	9	24.06	51.44
10/26/2007	7:10	7	19.04	31.75
10/29/2007	8:17	10	23.13	167.7
10/30/2007	8:05	10.5	29.06	57.06
10/31/2007	8:17	10	23.13	167.7
11/2/2007	7:31	10	7.29	16.9
11/5/2007	7:17	7.5	14.33	28.57
11/6/2007	7:31	10	7.29	16.9
11/8/2007	11:06	3	35.47	46.56

		D099		
DATE	START TIME	RUN TIME (Hrs)	TWA	PEAK READING
11/8/2007	7:55	7	12.54	39.8
11/9/2007	7:48	8.5	26.22	60.9
11/13/2007	6:37	8.5	18.01	85.96
11/14/2007	7:36	5	46.31	63.74
11/15/2007	7:32	6	25.59	49.2
12/15/2007	7:27	7.5	11.11	17.01
12/17/2007	7:00	8	11.83	68.06
12/18/2007	7:41	8	32.32	297.1
12/19/2007	7:49	7.5	32.53	228

		SN048		
DATE	START TIME	RUN TIME (Hrs)	TWA	PEAK READING
10/24/2007	8:55	8	23.09	403.2
10/29/2007	8:12	5	6.86	10.56
12/26/2007	7:09	10.5	75.09	105
12/27/2007	7:24	9.5	77.69	183.4
12/28/2007	7:10	9.5	42.84	918.5
1/3/2008	7:02	10.5	29.69	192.8
1/9/2008	7:34	9	64.74	139.9
1/10/2008	7:13	10	75.43	150.2
1/11/2008	7:23	7.5	167.6	307.1
1/14/2008	9:24	7.5	88.43	153.5
1/15/2008	7:24	10.5	41.05	82.34
1/24/2008	7:15	10	43.43	114.1
1/26/2008	7:30	10	34.05	104.8
1/28/2008	8:00	10	52.82	168.1
1/29/2008	7:22	10	52.82	168.1
1/30/2008	7:12	3	193	653.9
1/31/2008	7:28	10	52.83	91.85

		SSD047		
DATE	START TIME	RUN TIME (Hrs)	TWA	PEAK READING
10/22/2007	8:31	8.5	8.04	19.38
10/24/2007	8:45	8	16.66	183.4
10/25/2007	8:04	9	22.18	48.36
10/26/2007	7:15	7	21.96	195.1
10/29/2007	7:45	10	11.05	22
10/30/2007	8:30	1.5	30.5	38.56
10/31/2007	7:35	10.5	8.32	15.31
11/1/2007	7:55	9.5	6.37	12.81
11/2/2007	7:22	7.5	12.45	25.7
11/5/2007	11:17	2.5	31.04	39.37
11/8/2007	9:04	9	15.65	46.3
11/9/2007	8:41	9	27.17	53.77
11/13/2007	9:40	8	44.13	703.5
11/14/2007	8:36	5	49.96	83.48
11/15/2007	8:24	5.5	22.91	46.47

		SSD285		
DATE	START TIME	RUN TIME (Hrs)	TWA	PEAK READING
10/24/2007	8:42	8.5	6.5	25.6
10/25/2007	8:07	9	14.52	37.35
10/26/2007	7:29	6.5	10.87	25.05
10/29/2007	7:51	8.5	7.17	19
10/30/2007	8:32	10	17.43	33.22
10/31/2007	8:04	10.5	10.15	49.31
11/1/2007	7:55	9.5	3.79	10.49
11/2/2007	7:14	8	9.43	23.11
11/5/2007	11:15	3	32.09	39.71
11/6/2007	10:05	0.5	1	3.05
11/7/2007	11:39	6	7.65	11.97
11/8/2007	9:11	9	16.85	26.96
11/9/2007	8:39	9	29.66	55.29
11/14/2007	12:07	1.5	60.38	78.94

Note: Run Time rounded to nearest half hour.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR000132993	1	(800)424-9300	003901591 JJK

5. Generator's Name and Mailing Address
NORAMPAC INDUSTRIES INC
3241 WALDEN AVE
DEPEW NY 14043-2848

Generator's Site Address (if different than mailing address)

Generator's Phone: (450) 461-8600

6. Transporter 1 Company Name: FRANK'S VACUUM TRUCK — U.S. EPA ID Number: NYD982792814

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836579

Facility's Phone: (716) 754-8231

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, WASTE MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.,O.S. MIXTURE,3,,UN3336,I NY295789	003	CF	2120 ETN	P	D001		B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY295789 - MERCAPTAN FILLED CYLINDERS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

8/19/2008

Generator's/Offeror's Printed/Typed Name: Michele Flecksd as Agent for — Signature — Month 06 Day 19 Year 08

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: PAULA E. MORRIS — Signature — Month 06 Day 19 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Generator confirmed 41 DF's received on 3 pallets
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Michelle Fleck — Signature — Month 06 Day 19 Year 08

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR000132993	2. Page 1 of 1	3. Emergency Response Phone (800) 436-	4. Manifest Tracking Number 005090654 JJK

GENERATOR

5. Generator's Name and Mailing Address
NORAMPAC INDUSTRIES INC
2301 WALDEN AVE
DEPEW NY 14043-2949

Generator's Site Address (if different than mailing address)

Generator's Phone: (460) 461- 0000

6. Transporter 1 Company Name: FRANK'S VACUUM TRUCK SRVC., INC. — U.S. EPA ID Number: NYD 0 8 2 7 0 2 8 1 0

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107

U.S. EPA ID Number: NYD 0 4 9 8 3 6 6 7 9

Facility's Phone: (716) 754- 8231

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RQ, WASTE MERCAPTAN MIXTURE, LIQUID, FLAMMABLE, N.O.S. MIXTURE,3,UN3336,I NY266700	11	DM	300	P	[illegible]	B
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1. NY266700 - MERCAPTAN FILLED CYLINDERS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgement of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] MARINELLI — Signature — Month 09 — Day 25

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] KARMOS — Signature — Month 09 — Day 25 — Year [illegible]
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job#: A08-6885

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

06/24/2008

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8688501	TOPSOIL	SOIL	06/10/2008	09:12	06/10/2008	09:40

METHODS SUMMARY

Job#: A08-6885

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8151 - PART 375 SUBPART 6 HERBICIDES	SW8463 8151

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-6885

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-6885
Sample Cooler(s) were received at the following temperature(s); 14.0 °C
Samples were received at a temperature of 14.0°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC Extractable Data

Herbicides were subcontracted to TestAmerica North Canton. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Herbicides may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Appendix A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. NY7A9718.1

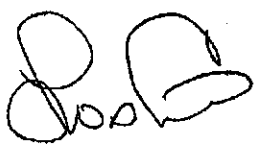
NY7A9718.1/TIGHE & BOND

Lot #: A8F160106

Paul Morrow

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228

TESTAMERICA LABORATORIES, INC.



Lois D. Ezzo
Project Manager

June 20, 2008

4101 Shuffel Street N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

CASE NARRATIVE

A8F160106

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by TestAmerica Buffalo from the NY7A9718.1/Tighe & Bond Site, project number NY7A9718.1. The sample was received June 14, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Paul Morrow on June 19, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Lois D. Ezzo, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 21.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.6°C.

HERBICIDES-8151

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8F160106

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TOPSOIL 06/10/08 09:12 001				
Percent Solids	85.8	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8F160106

PARAMETER	ANALYTICAL METHOD
Chlorinated Herbicides by GC	SW846 8151A
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8F160106

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KP1EM	001	TOPSOIL	06/10/08	09:12

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Buffalo

Client Sample ID: TOPSOIL

GC Semivolatiles

Lot-Sample #...:	A8F160106-001	Work Order #...:	KP1EM1AC
Date Sampled...:	06/10/08 09:12	Date Received..:	06/14/08
Prep Date.....:	06/17/08	Analysis Date..:	06/18/08
Prep Batch #...:	8169025		
Dilution Factor:	1		
% Moisture.....:	14	Method.....:	SW846 8151A

Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,5-TP (Silvex)	ND	23	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	59	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Buffalo

Client Sample ID: TOPSOIL

General Chemistry

Lot-Sample #...: A8F160106-001 Work Order #...: KP1EM Matrix.....: SO
Date Sampled...: 06/10/08 09:12 Date Received..: 06/14/08
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	85.8	10.0	%	MCAWW 160.3 MOD	06/16-06/17/08	8168457

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A8F160106 Work Order #...: KP2P91AA Matrix.....: SOLID
MB Lot-Sample #: A8F170000-025

Prep Date.....: 06/17/08
Analysis Date..: 06/18/08 Prep Batch #...: 8169025
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4,5-TP (Silvex)	ND	20	ug/kg	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	74	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8F160106 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: KP2G41AA		MB Lot-Sample #:	A8F160000-457	
	ND	10.0	%	MCAWW 160.3 MOD	06/16-06/17/08	8168457
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F160106 Work Order #...: KP2P91AC Matrix.....: SOLID
LCS Lot-Sample#: A8F170000-025
Prep Date.....: 06/17/08 Analysis Date..: 06/18/08
Prep Batch #...: 8169025
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4,5-TP (Silvex)	**79**	**(42 - 110)**	**SW846 8151A**
2,4-D	**82**	**(33 - 110)**	**SW846 8151A**
2,4,5-T	**87**	**(34 - 114)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	76	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F160106 Work Order #...: KPT831DG-MS Matrix.....: SOLID
MS Lot-Sample #: A8F120317-047 KPT831DH-MSD
Date Sampled...: 06/11/08 09:50 Date Received..: 06/12/08
Prep Date.....: 06/17/08 Analysis Date..: 06/18/08
Prep Batch #...: 8169025
Dilution Factor: 1 % Moisture.....: 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4,5-TP (Silvex)	56	(10 - 117)			SW846 8151A
	58	(10 - 117)	2.8	(0-30)	SW846 8151A
2,4-D	56	(15 - 110)			SW846 8151A
	58	(15 - 110)	4.6	(0-30)	SW846 8151A
2,4,5-T	59	(10 - 139)			SW846 8151A
	62	(10 - 139)	4.6	(0-30)	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	61	(19 - 122)
	61	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F160106 **Work Order #...:** KPW3E-SMP KPW3E-DUP **Matrix.....:** SOLID

Date Sampled...: 06/11/08 10:25 **Date Received..:** 06/13/08

% Moisture.....: 2.2

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F130192-004		
	97.8	97.7	%	0.052	(0-20)	MCAWW 160.3 MOD	06/16-06/17/08	8168457

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F160106 **Work Order #...:** KPXMG-SMP KPXMG-DUP **Matrix.....:** SOLID

Date Sampled...: 06/12/08 10:15 **Date Received..:** 06/13/08

% Moisture.....: 39

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F130269-003		
	61.5	61.8	%	0.48	(0-20)	MCAWW 160.3 MOD	06/16-06/17/08	8168457

Dilution Factor: 1

Date: 06/13/2008
Time: 16:27:49

TestAmerica Laboratories Inc.
Internal Chain of Custody

Page: 1
Rept: AN0093

23/27

Client: Tighe and Bond
Project: NY7A9718.1
Quote: 48000621
SM #: TBD

PM: Paul K. Morrow
Due Date: 06/21/2008
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
TOPSOIL	A8688501	SOIL	HERBS	1-4ozGW	06/10/2008 09:12

Relinquished by TestAmerica Laboratories Inc.: Signature(s)	Date	Time	Received By TestAmerica - North Canton: Signature(s)	Date	Time
(1) Andrew Bygrent	06/13/2008	1700	(3) TEST AMERICA	14/JN/2008	950
(2)	/ /20		(4)	/ /20	

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number: 480 140106**
North Canton Facility

Client BUFFALO Project _____ By: _____
Cooler Received on 14 JUN 2008 Opened on 14 JUN 2008 (Signature)
FedEx [X] UPS [ ] DHL [ ] FAS [ ] Stetson [ ] Client Drop Off [ ] TestAmerica Courier [ ] Other _____
TestAmerica Cooler # 200204C Multiple Coolers [ ] Foam Box [ ] Client Cooler [ ] Other _____

1. Were custody seals on the outside of the cooler(s)? Yes [X] No [ ] Intact? Yes [X] No [ ] NA [ ]
   If YES, Quantity 1
   Were custody seals on the outside of cooler(s) signed and dated? Yes [X] No [ ] NA [ ]
   Were custody seals on the bottle(s)? Yes [ ] No [X]
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes [X] No [ ]
3. Did custody papers accompany the sample(s)? Yes [X] No [ ] Relinquished by client? Yes [X] No [ ]
4. Were the custody papers signed in the appropriate place? Yes [X] No [ ]
5. Packing material used: Bubble Wrap [X] Foam [ ] None [ ] Other BAG ICE
6. Cooler temperature upon receipt 2.6 °C See back of form for multiple coolers/temps [ ]
   METHOD: IR [X] Other [ ] _____
   COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]
7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Could all bottle labels be reconciled with the COC? Yes [X] No [ ]
9. Were sample(s) at the correct pH upon receipt? Yes [ ] No [ ] NA [X]
10. Were correct bottle(s) used for the test(s) indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [ ] NA [X]
12. Sufficient quantity received to perform indicated analyses? Yes [X] No [ ]
13. Was a trip blank present in the cooler(s)? Yes [ ] No [X] Were VOAs on the COC? Yes [ ] No [X]

Contacted PM _____ Date _____ by _____ via Verbal [ ] Voice Mail [ ] Other [ ]
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____
_____
_____
_____
_____
_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot# 113007-HNO_3; Sulfuric Acid Lot# 071707-H_2SO_4; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-CH_3COO_2ZN/NaOH.*
What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative North Canton Facility			
Client ID	**pH**	**Date**	**Initials**
Cooler	**Temp °C**	**Method**	**Coolant**
Discrepancies Cont'd			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
Tighe & Bond	Jim Olsen	6-10-08	389213
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
213 Court St Suite 900	860.704.4760 / 860.704.4775		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Middletown / CT / 06457	Michele Alabiso		
Project Name and Location (State)	**Carrier/Waybill Number**		
Former N.L. Industries, Depew, NY			
Contract/Purchase Order/Quote No.			
6254			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: TAL SVOCs	TAL VOCs	TAL PCBs	TAL Metals	Cyanide	Special Instructions/ Conditions of Receipt
Topsoil	6-10-08	0912				X	XX						X	X	X	X	X	Comparable to Track 1 Un-restricted Backfill

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 10 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Greg Beach	6-10-08	0940	1. Received By: BUFFALO	06/10/08	0940
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 14.0 SAME DAY W/ICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

27/27

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job#: A08-6960

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

06/27/2008

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8695301	GAS FILL SAND	SOIL	06/16/2008	11:00	06/16/2008	12:35

METHODS SUMMARY

Job#: A08-6960

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8151 - PART 375 SUBPART 6 HERBICIDES	SW8463 8151

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-6960

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-6960
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC Extractable Data

Herbicides were subcontracted to TestAmerica North Canton. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Herbicides may be found within the comment summary of the subcontract report.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Appendix A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. NY7A9718.1

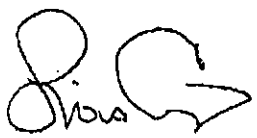
NY7A9718.1/TIGHE & BOND

Lot #: A8F170231

Paul Morrow

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228

TESTAMERICA LABORATORIES, INC.



Lois D. Ezzo
Project Manager

June 24, 2008

4101 Shuffel Street N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

CASE NARRATIVE

A8F170231

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by TestAmerica Buffalo from the NY7A9718.1/Tighe & Bond Site, project number NY7A9718.1. The sample was received June 17, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Paul Morrow on June 20, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Lois D. Ezzo, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 21.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.6°C.

HERBICIDES-8151

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8F170231

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAS FILL SAND 06/16/08 11:00 001				
Percent Solids	93.3	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8F170231

PARAMETER	ANALYTICAL METHOD
Chlorinated Herbicides by GC	SW846 8151A
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8F170231

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KP358	001	GAS FILL SAND	06/16/08	11:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Buffalo

Client Sample ID: GAS FILL SAND

GC Semivolatiles

Lot-Sample #...:	A8F170231-001	Work Order #...:	KP3581AC	Matrix.....:	SO
Date Sampled...:	06/16/08 11:00	Date Received..:	06/17/08		
Prep Date.....:	06/18/08	Analysis Date..:	06/19/08		
Prep Batch #...:	8170028				
Dilution Factor:	1				
% Moisture.....:	6.7	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,5-TP (Silvex)	ND	21	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	34	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Buffalo

Client Sample ID: GAS FILL SAND

General Chemistry

Lot-Sample #...: A8F170231-001 Work Order #...: KP358 Matrix.....: SO
Date Sampled...: 06/16/08 11:00 Date Received..: 06/17/08
% Moisture.....: 6.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	93.3	10.0	%	MCAWW 160.3 MOD	06/18-06/19/08	8170383

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A8F170231 Work Order #...: KP4QC1AA Matrix.....: SOLID
MB Lot-Sample #: A8F180000-028

Prep Date.....: 06/18/08
Analysis Date..: 06/19/08 Prep Batch #...: 8170028
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4,5-TP (Silvex)	ND	20	ug/kg	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	69	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8F170231 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: KP6AJ1AA		MB Lot-Sample #:	A8F180000-383	
	ND	10.0	%	MCAWW 160.3 MOD	06/18-06/19/08	8170383
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F170231 **Work Order #...:** KP4QC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A8F180000-028
Prep Date.....: 06/18/08 **Analysis Date..:** 06/19/08
Prep Batch #...: 8170028
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4,5-TP (Silvex)	**66**	**(42 - 110)**	**SW846 8151A**
2,4-D	**67**	**(33 - 110)**	**SW846 8151A**
2,4,5-T	**71**	**(34 - 114)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	70	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F170231 Work Order #...: KP3EC1AF-MS Matrix.....: SOLID
MS Lot-Sample #: A8F170167-008 KP3EC1AG-MSD
Date Sampled...: 06/13/08 14:40 Date Received..: 06/17/08
Prep Date.....: 06/18/08 Analysis Date..: 06/19/08
Prep Batch #...: 8170028
Dilution Factor: 1 % Moisture.....: 3.6

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4,5-TP (Silvex)	**49**	**(10 - 117)**			**SW846 8151A**
	47	**(10 - 117)**	**3.5**	**(0-30)**	**SW846 8151A**
2,4-D	**55**	**(15 - 110)**			**SW846 8151A**
	53	**(15 - 110)**	**4.1**	**(0-30)**	**SW846 8151A**
2,4,5-T	**54**	**(10 - 139)**			**SW846 8151A**
	51	**(10 - 139)**	**5.7**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	53	(19 - 122)
	53	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F170231 **Work Order #...:** KPWN0-SMP KPWN0-DUP **Matrix.....:** SOLID

Date Sampled...: 06/12/08 16:25 **Date Received..:** 06/13/08

% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F130161-001		
	86.5	86.8	%	0.43	(0-20)	MCAWW 160.3 MOD	06/18-06/19/08	8170383

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F170231 Work Order #...: KP34E-SMP Matrix.....: SOLID
KP34E-DUP
Date Sampled...: 06/12/08 15:00 Date Received..: 06/16/08
% Moisture.....: 0.44

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F170224-002		
	99.6	99.7	%	0.19	(0-20)	MCAWW 160.3 MOD	06/18-06/19/08	8170383

Dilution Factor: 1

Date: 06/16/2008
Time: 15:07:35

TestAmerica Laboratories Inc.
Internal Chain of Custody

23/27

Client: Tighe and Bond
Project: NY7A9718.1
Quote: 48000621
SM #: 364

PM: Paul K. Morrow
Due Date: 06/27/2008
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
GAS FILL SAND	A8695301	SOIL	HERBS	1-4ozGW	06/16/2008 11:00

Relinquished by TestAmerica Laboratories Inc.: Signature(s)	Date	Time	Received By TestAmerica - North Canton: Signature(s)	Date	Time
(1) Andrew Sypniewski	6/16/2008	1600	(3)	6/17/2008	0420
(2)	/ /20		(4)	/ /20	

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number: ABE170231**
North Canton Facility

Client _____ Project _____ By: _____
Cooler Received on 6.17.08 Opened on 6.17.08 (Signature)
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☑ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 1
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 1.6 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☑
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☑ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

_____

_____

_____

_____

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot# 113007-HNO_3; Sulfuric Acid Lot# 031808-H_2SO_4; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-$(CH_3COO)_2ZN$/NaOH.*
What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative North Canton Facility			
Client ID	**pH**	**Date**	**Initials**
Cooler	**Temp °C**	**Method**	**Coolant**
Discrepancies Cont'd			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client: Tighe & Bond	Project Manager: James Olsen	Date: 6/10/08	Chain of Custody Number: 389212
Address: 213 Court Street, Suite 900	Telephone Number (Area Code)/Fax Number: 860 704 4761	Lab Number	Page 1 of 1
City: Middletown / State: CT / Zip Code: 06457	Site Contact: Michele Matuisa / Lab Contact		
Project Name and Location (State): FORMER NL INDUSTRIES DEPEW NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 126258R02			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	NY7497181	TASK 4	375 SVOCS	VOCS	Pesticides	Herbicides	375 metals	total cyanide	hexavalent chrome	[illegible]	[illegible]	potash [illegible]
GAS FILL SAND	6/10/08	1100				X		X						X	X	X	X	X	X	X	X	X	X	X	X

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/10/08		1. Received By: Andrew Symonds	6.16.08	1235
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. NY7A9718.1

NY7A9718.1 TIGHE AND BOND

Lot #: A8F260153

Paul Morrow

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228

TESTAMERICA LABORATORIES, INC.

Lois D. Ezzo
Project Manager

June 30, 2008

CASE NARRATIVE

A8F260153

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by TestAmerica Buffalo from the NY7A9718.1 Tighe and Bond Site, project number NY7A9718.1. The sample was received June 26, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Lois D. Ezzo, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 20.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.2°C.

HERBICIDES-8151

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8178271. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8F260153

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FREY SAND AND GRAVEL 06/24/08 16:01 001				
Percent Solids	93.5	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8F260153

PARAMETER	ANALYTICAL METHOD
Chlorinated Herbicides by GC	SW846 8151A
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A8F260153

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KQL1Q	001	FREY SAND AND GRAVEL	06/24/08	16:01

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Buffalo

Client Sample ID: FREY SAND AND GRAVEL

GC Semivolatiles

Lot-Sample #...: A8F260153-001 **Work Order #...:** KQL1Q1AA **Matrix.....:** SO
Date Sampled...: 06/24/08 16:01 **Date Received..:** 06/26/08
Prep Date.....: 06/26/08 **Analysis Date..:** 06/27/08
Prep Batch #...: 8178271
Dilution Factor: 1
% Moisture.....: 6.5 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4,5-TP (Silvex)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	39	(19 - 122)

TestAmerica Buffalo

Client Sample ID: FREY SAND AND GRAVEL

General Chemistry

Lot-Sample #...: A8F260153-001 **Work Order #...:** KQL1Q **Matrix.....:** SO
Date Sampled...: 06/24/08 16:01 **Date Received..:** 06/26/08
% Moisture.....: 6.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**93.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**06/26-06/27/08**	**8178403**

Dilution Factor: 1

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A8F260153 **Work Order #...:** KQL791AA **Matrix.....:** SOLID
MB Lot-Sample #: A8F260000-271
Prep Date.....: 06/26/08
Analysis Date..: 06/27/08 **Prep Batch #...:** 8178271
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4,5-TP (Silvex)	ND	20	ug/kg	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	65	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8F260153 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: KQM6P1AA		MB Lot-Sample #:	A8F260000-403	
	ND	10.0	%	MCAWW 160.3 MOD	06/26-06/27/08	8178403
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F260153 **Work Order #...:** KQL791AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A8F260000-271 KQL791AD-LCSD
Prep Date.....: 06/26/08 **Analysis Date..:** 06/27/08
Prep Batch #...: 8178271
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**77**	**(33 - 110)**			**SW846 8151A**
	75	**(33 - 110)**	**3.2**	**(0-30)**	**SW846 8151A**
2,4,5-T	**77**	**(34 - 114)**			**SW846 8151A**
	71	**(34 - 114)**	**8.1**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**74**	**(42 - 110)**			**SW846 8151A**
	66	**(42 - 110)**	**12**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic **acid**	70	(19 - 122)
	69	(19 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F260153 **Work Order #...:** KQCHX-SMP KQCHX-DUP **Matrix.....:** SOLID
Date Sampled...: 06/18/08 13:55 **Date Received..:** 06/20/08
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F200267-002		
	83.1	83.9	%	0.94	(0-20)	MCAWW 160.3 MOD	06/26-06/27/08	8178403

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F260153 **Work Order #...:** KQCJF-SMP **Matrix.....:** SOLID
KQCJF-DUP
Date Sampled...: 06/18/08 15:40 **Date Received..:** 06/20/08
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A8F200267-008		
	86.0	78.2	%	9.5	(0-20)	MCAWW 160.3 MOD	06/26-06/27/08	8178403

Dilution Factor: 1

TestAmerica Laboratories Inc.
Internal Chain of Custody

Client: Tighe and Bond
Project: NY7A9718.1
Quote: 48000621
SM #: 394

PM: Paul K. Morrow
Due Date: 07/01/2008
Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
FREY SAND AND GRAVEL	A8753401	SOTHER	HERB	1-4ozGW	06/24/2008 16:01

Relinquished by TestAmerica Laboratories Inc.: Signature(s)	Date	Time	Received By TestAmerica - North Canton: Signature(s)	Date	Time
(1)	6/25/2008	17:00	(3) TEST AMERICA	6/26/2008	900
(2)	/ /20		(4)	/ /20	

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 480-26015-3
North Canton Facility

Client BUFFALO Project TV7A9718-1 By: (Signature)
Cooler Received on 26 JUN 2008 Opened on 26 JUN 2008
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other BAG ICE
6. Cooler temperature upon receipt 3.2 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot#* 113007-HNO_3; *Sulfuric Acid Lot#* 031808-H_2SO_4; *Sodium Hydroxide Lot#* 073007 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 050205-$(CH_3COO)_2ZN$/*NaOH.*
What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

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END OF REPORT

ANALYTICAL REPORT

Job#: A08-6693

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

07/09/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8669301	TOPSOIL	SOIL	06/10/2008	09:12	06/10/2008	09:40

METHODS SUMMARY

Job#: A08-6693

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - PART 375 SUBPART 6 VOLATILES	SW8463 8260
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES	SW8463 8270
METHOD 8081 -PART 375, SUBPART 6 PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Lead - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012
Hexavalent Chromium - Total	SW8463 7196A
Leachable pH	SW8463 9045
Total Kjeldahl Nitrogen	MCAWW 351.2
Total Phosphorous	SM20 4500-P E

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-6693

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-6693
Sample Cooler(s) were received at the following temperature(s); 14.0 °C
Samples were received at a temperature of 14.0°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

The analyte Methylene chloride was detected in the Method Blank at a level above the project established reporting limit. Samples had levels of Methylene chloride less than ten times that of the Method Blank value. All sample detections for Methylene chloride may potentially be due to laboratory contamination and should be evaluated accordingly. All associated sample detections were qualified with a "B".

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8082, the associated calibration verifications demonstrated an increased instrument response, >15% difference, for the surrogate Tetrachloro-m-xylene. The theoretical consequence of these would be a high bias in the calculated surrogate recoveries. The associated sample surrogate recoveries are well within the quality control limits. In the technical judgment of the laboratory, the sample data has not been impacted and no corrective action is required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Procedures for Hexavalent Chromium in soil require analysis of both Soluble and Insoluble spike samples. The Insoluble spike samples are designated as MS/MSD and the Soluble spike samples are designated as C/D. Due to LIMs limitations, a replicate base sample identifier (suffix=F1) has also been entered to associate base results with and to calculate the Soluble spike results.

****

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
TOPSOIL	A8669301	Total Kjeldahl Nitrogen	20.00	008
TOPSOIL	A8669301	Total Phosphorous	10.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TOPSOIL
Lab Sample ID: A8669301
Date Collected: 06/10/2008
Time Collected: 09:12

Date Received: 06/10/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8260 -PART 375 SUBPART 6 VOLATILE							
1,1,1-Trichloroethane	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,1-Dichloroethane	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,1-Dichloroethene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,2,4-Trimethylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,2-Dichlorobenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,2-Dichloroethane	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,3,5-Trimethylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,3-Dichlorobenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,4-Dichlorobenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
1,4-Dioxane	ND		240	UG/KG	8260	06/16/2008 20:16	LH
2-Butanone	ND		30	UG/KG	8260	06/16/2008 20:16	LH
Acetone	ND		30	UG/KG	8260	06/16/2008 20:16	LH
Benzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Carbon Tetrachloride	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Chlorobenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Chloroform	ND		6	UG/KG	8260	06/16/2008 20:16	LH
cis-1,2-Dichloroethene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Ethylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Methyl-t-Butyl Ether (MTBE)	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Methylene chloride	3	BJ	6	UG/KG	8260	06/16/2008 20:16	LH
n-Butylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
n-Propylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
sec-Butylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
tert-Butylbenzene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Tetrachloroethene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Toluene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Total Xylenes	ND		18	UG/KG	8260	06/16/2008 20:16	LH
trans-1,2-Dichloroethene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Trichloroethene	ND		6	UG/KG	8260	06/16/2008 20:16	LH
Vinyl chloride	ND		12	UG/KG	8260	06/16/2008 20:16	LH
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
2-Methylphenol	ND		200	UG/KG	8270	06/20/2008 19:25	MD
3- & 4-Methylphenol	ND		800	UG/KG	8270	06/20/2008 19:25	MD
Acenaphthene	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Acenaphthylene	10	J	200	UG/KG	8270	06/20/2008 19:25	MD
Anthracene	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Benzo(a)anthracene	26	J	200	UG/KG	8270	06/20/2008 19:25	MD
Benzo(a)pyrene	22	J	200	UG/KG	8270	06/20/2008 19:25	MD
Benzo(b)fluoranthene	26	J	200	UG/KG	8270	06/20/2008 19:25	MD
Benzo(ghi)perylene	21	J	200	UG/KG	8270	06/20/2008 19:25	MD
Benzo(k)fluoranthene	16	J	200	UG/KG	8270	06/20/2008 19:25	MD
Chrysene	48	BJ	200	UG/KG	8270	06/20/2008 19:25	MD
Dibenzo(a,h)anthracene	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Dibenzofuran	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Fluoranthene	45	J	200	UG/KG	8270	06/20/2008 19:25	MD
Fluorene	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Hexachlorobenzene	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Indeno(1,2,3-cd)pyrene	18	J	200	UG/KG	8270	06/20/2008 19:25	MD

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TOPSOIL
Lab Sample ID: A8669301
Date Collected: 06/10/2008
Time Collected: 09:12

Date Received: 06/10/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
Naphthalene	70	J	200	UG/KG	8270	06/20/2008 19:25	MD
Pentachlorophenol	ND		400	UG/KG	8270	06/20/2008 19:25	MD
Phenanthrene	19	J	200	UG/KG	8270	06/20/2008 19:25	MD
Phenol	ND		200	UG/KG	8270	06/20/2008 19:25	MD
Pyrene	36	J	200	UG/KG	8270	06/20/2008 19:25	MD
SOIL-SW8463 8081 - PART 375 SUBPART 6 PESTICI							
4,4'-DDD	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
4,4'-DDE	0.61	J	2.0	UG/KG	8081	06/17/2008 17:11	TCH
4,4'-DDT	2.2		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Aldrin	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
alpha-BHC	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
alpha-Chlordane	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
beta-BHC	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
delta-BHC	0.65	BJ	2.0	UG/KG	8081	06/17/2008 17:11	TCH
Dieldrin	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Endosulfan I	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Endosulfan II	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Endosulfan Sulfate	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Endrin	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
gamma-BHC (Lindane)	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
Heptachlor	ND		2.0	UG/KG	8081	06/17/2008 17:11	TCH
SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1221	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1232	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1242	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1248	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1254	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1260	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1262	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Aroclor 1268	ND		20	UG/KG	8082	06/17/2008 03:31	GFD
Metals Analysis							
Arsenic - Total	6.7		2.3	MG/KG	6010	06/14/2008 00:16	AH
Barium - Total	124		0.57	MG/KG	6010	06/14/2008 00:16	AH
Beryllium - Total	0.52		0.23	MG/KG	6010	06/14/2008 00:16	AH
Cadmium - Total	0.83		0.23	MG/KG	6010	06/14/2008 00:16	AH
Chromium - Total	13.0		0.57	MG/KG	6010	06/14/2008 00:16	AH
Copper - Total	11.5		1.1	MG/KG	6010	06/14/2008 00:16	AH
Lead - Total	29.4		1.1	MG/KG	6010	06/14/2008 00:16	AH
Manganese - Total	1270		0.23	MG/KG	6010	06/14/2008 00:16	AH
Mercury - Total	0.058		0.023	MG/KG	7471	06/12/2008 17:58	MM
Nickel - Total	18.5		0.57	MG/KG	6010	06/14/2008 00:16	AH
Selenium - Total	ND		4.6	MG/KG	6010	06/14/2008 00:16	AH
Silver - Total	ND		0.57	MG/KG	6010	06/14/2008 00:16	AH
Zinc - Total	96.9		2.3	MG/KG	6010	06/14/2008 00:16	AH

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TOPSOIL
Lab Sample ID: A8669301
Date Collected: 06/10/2008
Time Collected: 09:12

Date Received: 06/10/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Wet Chemistry Analysis							
Cyanide - Total	ND		1.2	UG/G	9012	06/13/2008 15:17	ERK
Hexavalent Chromium - Total	ND		1.8	MG/KG	7196A	06/20/2008 12:00	KD
Leachable pH	5.66		0	S.U.	9045	06/16/2008 20:47	RLG
Total Kjeldahl Nitrogen	640		97.3	MG/KG	351.2	07/03/2008 12:31	ERK
Total Phosphorous	275		6.9	MG/KG	4500-P E	06/17/2008 15:30	RMM

Batch Quality Control Data

Date: 07/09/2008 07:24:00
Batch No: A8B16977

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A8665110 A8665110MS A8665110SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 335.4 - TOTAL CYANIDE	MG/L	0.245	0.346	0.365	0.100	0.100	101	120 *	111	17 *	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8665119 A8665119MS A8665119SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 335.4 - TOTAL CYANIDE	MG/L	0.365	0.471	0.465	0.100	0.100	106	100	103	6	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8689211 A8689211MS A8689211SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/KG	0	1054	2197	1428	1276	74 *	172 *	123	80 *	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

MS/MSD Batch QC Results

Lab Sample ID: A8720401 A8720401MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 351.2 - TOTAL KJELDAHL NITROGEN	MG/L-N	0.350	1.32	1.00	98	72-127

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8689211F1 A8689211C A8689211D

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS												
HEXAVALENT CHROMIUM	MG/KG	0	2.88	2.64	12.15	12.15	24 *	22 *	23	9	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK16							
Job No	Lab ID	A08-6693	A8B1721502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dioxane	UG/KG	ND	200	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	6	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
tert-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	95	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Toluene-D8	%	119	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	116	72-126	NA		NA		NA	
1,2-Dichloroethane-D4	%	97	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A08-6693	A8B1727703						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	170	NA		NA		NA	
Acenaphthylene	UG/KG	ND	170	NA		NA		NA	
Anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	170	NA		NA		NA	
Chrysene	UG/KG	17 J	170	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	170	NA		NA		NA	
Dibenzofuran	UG/KG	ND	170	NA		NA		NA	
Fluoranthene	UG/KG	ND	170	NA		NA		NA	
Fluorene	UG/KG	ND	170	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	170	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	170	NA		NA		NA	
2-Methylphenol	UG/KG	ND	170	NA		NA		NA	
3- & 4-Methylphenol	UG/KG	ND	660	NA		NA		NA	
Naphthalene	UG/KG	ND	170	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	330	NA		NA		NA	
Phenanthrene	UG/KG	ND	170	NA		NA		NA	
Phenol	UG/KG	ND	170	NA		NA		NA	
Pyrene	UG/KG	ND	170	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Naphthalene-D8	%	99	50-200	NA		NA		NA	
Acenaphthene-D10	%	92	50-200	NA		NA		NA	
Phenanthrene-D10	%	98	50-200	NA		NA		NA	
Chrysene-D12	%	102	50-200	NA		NA		NA	
Perylene-D12	%	123	50-200	NA		NA		NA	
Nitrobenzene-D5	%	65	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	71	43-120	NA		NA		NA	
p-Terphenyl-d14	%	62	51-125	NA		NA		NA	
Phenol-D5	%	64	36-120	NA		NA		NA	
2-Fluorophenol	%	62	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	69	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis
METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client ID Job No Lab ID Sample Date		Method Blank A08-6693 A8B1711803							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.7	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.7	NA		NA		NA	
beta-BHC	UG/KG	ND	1.7	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.7	NA		NA		NA	
delta-BHC	UG/KG	0.56 J	1.7	NA		NA		NA	
alpha-Chlordane	UG/KG	ND	1.7	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.7	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.7	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.7	NA		NA		NA	
Dieldrin	UG/KG	ND	1.7	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.7	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.7	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.7	NA		NA		NA	
Endrin	UG/KG	ND	1.7	NA		NA		NA	
Heptachlor	UG/KG	ND	1.7	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	87	37-136	NA		NA		NA	
Decachlorobiphenyl	%	88	42-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-6693	A8B1711803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	17	NA		NA		NA	
Aroclor 1221	UG/KG	ND	17	NA		NA		NA	
Aroclor 1232	UG/KG	ND	17	NA		NA		NA	
Aroclor 1242	UG/KG	ND	17	NA		NA		NA	
Aroclor 1248	UG/KG	ND	17	NA		NA		NA	
Aroclor 1254	UG/KG	ND	17	NA		NA		NA	
Aroclor 1260	UG/KG	ND	17	NA		NA		NA	
Aroclor 1262	UG/KG	ND	17	NA		NA		NA	
Aroclor 1268	UG/KG	ND	17	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	98	35-134	NA		NA		NA	
Decachlorobiphenyl	%	99	34-148	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-6693 A8B1691402		Method Blank A08-6693 A8B1703202					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Manganese - Total	MG/KG	NA		ND	0.20	NA		NA	
Lead - Total	MG/KG	NA		ND	1.0	NA		NA	
Arsenic - Total	MG/KG	NA		ND	2.0	NA		NA	
Barium - Total	MG/KG	NA		ND	0.50	NA		NA	
Cadmium - Total	MG/KG	NA		ND	0.20	NA		NA	
Beryllium - Total	MG/KG	NA		ND	0.20	NA		NA	
Chromium - Total	MG/KG	NA		ND	0.50	NA		NA	
Copper - Total	MG/KG	NA		ND	1.0	NA		NA	
Nickel - Total	MG/KG	NA		ND	0.50	NA		NA	
Selenium - Total	MG/KG	NA		ND	4.0	NA		NA	
Mercury - Total	MG/KG	ND	0.020	NA		NA		NA	
Silver - Total	MG/KG	NA		ND	0.50	NA		NA	
Zinc - Total	MG/KG	NA		ND	2.0	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MBLK A08-6693 A8B1824302		Method Blank A08-6693 A8B1697704		Method Blank A08-6693 A8B1727102		Method Blank A08-6693 A8B1758602	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Kjeldahl Nitrogen	MG/KG	ND	4.0	NA		NA		NA	
Cyanide - Total	UG/G	NA		ND	1.0	NA		NA	
Total Phosphorous	MG/KG	NA		NA		ND	0.58	NA	
Hexavalent Chromium - Total	MG/KG	NA		NA		NA		ND	1.5

NA = Not Applicable ND = Not Detected

Client Sample ID: TOPSOIL TOPSOIL TOPSOIL
Lab Sample ID: A8669301 A8669301MS A8669301SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	MSD	% Recovery MS	MSD	Avg	% RPD	QC LIMITS RPD	REC.
METHOD 8260 - PART 375 SUBPART 6 VOLATIL												
1,1-Dichloroethene	UG/KG	0	52.8	47.9	59.9	57.5	88	83	86	6	22.0	65-146
Trichloroethene	UG/KG	0	52.0	47.5	59.9	57.5	87	82	85	6	24.0	74-127
Benzene	UG/KG	0	50.4	47.0	59.9	57.5	84	82	83	2	25.0	74-128
Toluene	UG/KG	0	52.9	49.4	59.9	57.5	88	86	87	2	25.0	74-123
Chlorobenzene	UG/KG	0	51.4	48.4	59.9	57.5	86	84	85	2	25.0	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK16 MSB16
Lab Sample ID: A8B1721502 A8B1721501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - PART 375 SUBPART 6 VOLATIL					
1,1-Dichloroethene	UG/KG	44.4	50.0	89	65-146
Trichloroethene	UG/KG	52.1	50.0	104	74-127
Benzene	UG/KG	49.5	50.0	99	74-128
Toluene	UG/KG	53.5	50.0	107	74-123
Chlorobenzene	UG/KG	54.1	50.0	108	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A8B1727703 A8B1727701 A8B1727702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOL											
Phenol	UG/KG	1695	1682	3233	3298	52	51	52	2	25.0	36-110
Acenaphthene	UG/KG	2196	2265	3233	3298	68	69	69	1	16.0	53-119
Pentachlorophenol	UG/KG	1822	1949	3233	3298	56	59	58	5	27.0	33-136
Pyrene	UG/KG	2353	2509	3233	3298	73	76	75	4	25.0	51-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1711803 | A8B1711801 | A8B1711802

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8081 -PART 375, SUBPART 6 PESTICI											
gamma-BHC (Lindane)	UG/KG	15.3	14.9	16.5	16.4	92	91	92	1	50.0	37-120
alpha-BHC	UG/KG	15.1	14.7	16.5	16.4	91	90	91	1	50.0	35-120
Heptachlor	UG/KG	15.8	15.5	16.5	16.4	96	94	95	2	50.0	21-141
Aldrin	UG/KG	8.43	7.00	16.5	16.4	51	42	47	19	50.0	38-120
beta-BHC	UG/KG	16.5	16.2	16.5	16.4	100	98	99	2	50.0	35-133
delta-BHC	UG/KG	15.4	15.3	16.5	16.4	90	90	90	0	50.0	23-126
Dieldrin	UG/KG	16.1	15.8	16.5	16.4	97	96	97	1	50.0	36-120
Endrin	UG/KG	17.2	17.3	16.5	16.4	104	105	105	1	50.0	39-126
4,4'-DDD	UG/KG	18.7	17.6	16.5	16.4	113	107	110	5	50.0	33-127
4,4'-DDT	UG/KG	18.8	18.5	16.5	16.4	114	112	113	2	50.0	47-145
4,4'-DDE	UG/KG	16.0	15.8	16.5	16.4	97	96	97	1	50.0	22-141
Endosulfan I	UG/KG	14.4	14.5	16.5	16.4	87	88	88	1	50.0	29-125
Endosulfan II	UG/KG	15.7	15.7	16.5	16.4	95	96	96	1	50.0	39-121
Endosulfan Sulfate	UG/KG	17.2	16.8	16.5	16.4	104	102	103	2	50.0	43-120
alpha-Chlordane	UG/KG	16.5	16.2	16.5	16.4	99	98	99	1	50.0	40-160
METHOD 8082 - POLYCHLORINATED BIPHENYLS											
Aroclor 1260	UG/KG	132	175	166	166	80	106	93	28	50.0	52-140
Aroclor 1016	UG/KG	126	156	166	166	76	94	85	21	50.0	59-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

TIGHE AND BOND
Total Title 6 Part 375 Metals
LABORATORY CONTROL SAMPLE

Soil LCS Source: ERA D052-540

Lab Samp ID: A8B1691401
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Mercury	3.9	3.6		2.6	5.2	92.3

Soil LCS Source: ERA D055-540

Lab Samp ID: A8B1703201
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Arsenic	88.8	80.6		71.8	106	90.8
Barium	427	409		353	501	95.8
Beryllium	61.3	57.0		50.9	71.7	93.0
Cadmium	63.0	61.7		51.7	74.3	97.9
Chromium	97.9	92.0		77.2	118	94.0
Copper	87.0	80.8		71.7	102	92.9
Lead	88.9	82.9		72.7	105	93.2
Manganese	301	286		238	364	95.0
Nickel	116	109		95.8	136	94.0
Selenium	155	148		120	190	95.5
Silver	81.6	77.6		54.1	109	95.1
Zinc	230	213		182	278	92.6

Client Sample ID: MBLK
Lab Sample ID: A8B1824302

LCS
A8B1824301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 351.2 - TOTAL KJELDAHL NITROGEN	MG/KG	47.62	50.00	95	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B1697704 A8B1697703

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	45.03	77.10	58	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A8B1727102

LCS
A8B1727101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 4500-P E - TOTAL PHOSPHORUS	MG/KG	972.1	1050	92	70-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A8B1758602

LCS
A8B1758601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM	MG/KG	41.40	39.50	105	40-159

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID Job No & Lab Sample ID	TOPSOIL A08-6693 A8669301				
Sample Date	06/10/2008 09:12				
Received Date	06/10/2008 09:40				
Extraction Date					
Analysis Date	06/16/2008 20:16				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	82.21				

NA = Not Applicable

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID	VBLK16				
Job No & Lab Sample ID	A08-6693 A8B1721502				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/16/2008 11:45				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID Job No & Lab Sample ID	TOPSOIL A08-6693 A8669301				
Sample Date	06/10/2008 09:12				
Received Date	06/10/2008 09:40				
Extraction Date	06/18/2008 08:00				
Analysis Date	06/20/2008 19:25				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.15 GRAMS				
% Dry	82.21				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID	SBLK				
Job No & Lab Sample ID	A08-6693 A8B1727703				
Sample Date					
Received Date					
Extraction Date	06/18/2008 08:00				
Analysis Date	06/19/2008 12:39				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.04 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	TOPSOIL A08-6693 A8669301				
Sample Date	06/10/2008 09:12				
Received Date	06/10/2008 09:40				
Extraction Date	06/15/2008 07:00				
Analysis Date	06/17/2008 17:11				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.06 GRAMS				
% Dry	82.21				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	TOPSOIL A08-6693 A8669301				
Sample Date	06/10/2008 09:12				
Received Date	06/10/2008 09:40				
Extraction Date	06/15/2008 07:00				
Analysis Date	06/17/2008 03:31				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.06 GRAMS				
% Dry	82.21				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A08-6693 A8B1711803				
Sample Date					
Received Date					
Extraction Date	06/15/2008 07:00				
Analysis Date	06/17/2008 16:04				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.01 GRAMS				
% Dry	100.00				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-6693 A8B1711803				
Sample Date					
Received Date					
Extraction Date	06/15/2008 07:00				
Analysis Date	06/16/2008 22:04				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.01 GRAMS				
% Dry	100.00				

NA = Not Applicable

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8669301	TOPSOIL	RECNY	Arsenic - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Barium - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Copper - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Lead - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Mercury - Total	7471	1.0	82.28	0.6397 g	06/10/2008 09:12	06/10 09:40	06/12 17:58	MM	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Silver - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	82.28	0.53 g	06/10/2008 09:12	06/10 09:40	06/14 00:16	AH	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol	g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1691402	Method Blank	RECNY	Mercury - Total	7471	1.0	100.00	0.6	g	-	-	06/12 18:01	MM	Y	SOIL
A8B1703202	Method Blank	RECNY	Arsenic - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Barium - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Copper - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Lead - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Silver - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	100.00	0.5	g	-	-	06/14	AH	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8669301	TOPSOIL	RECNY	Total Phosphorous	4500-P	10.0	82.21	0.1533 g	06/10/2008 09:12	06/10 09:40	06/17 15:30	RMM	Y	SOIL
		RECNY	Hexavalent Chromium - Total	7196A	1.0	82.21	5.0026 g	06/10/2008 09:12	06/10 09:40	06/20 12:00	KD	Y	SOIL
		RECNY	Total Kjeldahl Nitrogen	351.2	20.0	82.21	1.25 g	06/10/2008 09:12	06/10 09:40	07/03 12:31	ERK	Y	SOIL
		RECNY	Leachable pH	9045	1.0	82.21		06/10/2008 09:12	06/10 09:40	06/16 20:47	RLG	Y	SOIL
		RECNY	Cyanide - Total	9012	1.0	82.21	0.5225 g	06/10/2008 09:12	06/10 09:40	06/13 15:17	ERK	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1824302	MBLK	RECNY	Total Kjeldahl Nitrogen	351.2	1.0	100.00	0.0013 L	-	-	07/03 10:28	ERK	Y	SOIL
A8B1697704	Method Blank	RECNY	Cyanide - Total	9012	1.0	100.00	0.5 g	-	-	06/13 15:17	ERK	Y	SOIL
A8B1727102	Method Blank	RECNY	Total Phosphorous	4500-P	1.0	100.00	0.15 g	-	-	06/17 15:30	RMM	Y	SOIL
A8B1758602	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	100.00	5.0 g	-	-	06/20 12:00	KD	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
Tighe & Bond	Jim Olsen	6-10-08	389213
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
213 Court St Suite 900	860.704.4760 / 800.704.4775		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Middletown / CT / 06457	Michele Alabiso		
Project Name and Location (State)	**Carrier/Waybill Number**		
Former N.L Industries, Depew, NY			
Contract/Purchase Order/Quote No.			
6254			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: TAL SVOCs	TAL VOCs	TAL PCBs	TAL Metals	Cyanide	Special Instructions/ Conditions of Receipt
Topsoil	6-10-08	0912				X	4X						X	X	X	X	X	Comparable to Track 1 Un-restricted Backfill

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 10 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Greg Beach	6-10-08	0940	1. Received By: BUFFALO	06/10/08	0940
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 14.0 SAME DAY W/ICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ANALYTICAL REPORT

Job#: A08-7490

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

07/02/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8749001	FREY SAND & GRAVEL	SOIL	06/24/2008	16:01	06/24/2008	16:50

METHODS SUMMARY

Job#: A08-7490

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - PART 375 SUBPART 6 VOLATILES	SW8463 8260
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES	SW8463 8270
METHOD 8081 -PART 375, SUBPART 6 PESTICIDES	SW8463 8081
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Lead - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012
Hexavalent Chromium - Total	SW8463 7196A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-7490

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-7490
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For pesticide analysis, the Matrix Spike Blank exceeded quality control limits for Aldrin. The %RPD and % recovery for all analytes are compliant in the Matrix Spike Blank Duplicate. no corrective action is required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Procedures for Hexavalent Chromium in soil require analysis of both Soluble and Insoluble spike samples. The Insoluble spike samples are designated as MS/MSD and the Soluble spike samples are designated as C/D. Due to LIMs limitations, a replicate base sample identifier (suffix=F1) has also been entered to associate base results with and to calculate the Soluble spike results.

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: FREY SAND & GRAVEL
Lab Sample ID: A8749001
Date Collected: 06/24/2008
Time Collected: 16:01

Date Received: 06/24/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8260 -PART 375 SUBPART 6 VOLATILE							
1,1,1-Trichloroethane	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,1-Dichloroethane	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,1-Dichloroethene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,2,4-Trimethylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,2-Dichlorobenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,2-Dichloroethane	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,3,5-Trimethylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,3-Dichlorobenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,4-Dichlorobenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
1,4-Dioxane	ND		210	UG/KG	8260	06/26/2008 15:53	LH
2-Butanone	ND		26	UG/KG	8260	06/26/2008 15:53	LH
Acetone	7	J	26	UG/KG	8260	06/26/2008 15:53	LH
Benzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Carbon Tetrachloride	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Chlorobenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Chloroform	ND		5	UG/KG	8260	06/26/2008 15:53	LH
cis-1,2-Dichloroethene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Ethylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Methyl-t-Butyl Ether (MTBE)	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Methylene chloride	12		5	UG/KG	8260	06/26/2008 15:53	LH
n-Butylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
n-Propylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
sec-Butylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
tert-Butylbenzene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Tetrachloroethene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Toluene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Total Xylenes	ND		16	UG/KG	8260	06/26/2008 15:53	LH
trans-1,2-Dichloroethene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Trichloroethene	ND		5	UG/KG	8260	06/26/2008 15:53	LH
Vinyl chloride	ND		10	UG/KG	8260	06/26/2008 15:53	LH
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
2-Methylphenol	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
3- & 4-Methylphenol	ND		680	UG/KG	8270	06/30/2008 20:44	AJ
Acenaphthene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Acenaphthylene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Anthracene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Benzo(a)anthracene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Benzo(a)pyrene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Benzo(b)fluoranthene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Benzo(ghi)perylene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Benzo(k)fluoranthene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Chrysene	18	BJ	170	UG/KG	8270	06/30/2008 20:44	AJ
Dibenzo(a,h)anthracene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Dibenzofuran	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Fluoranthene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Fluorene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Hexachlorobenzene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Indeno(1,2,3-cd)pyrene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: FREY SAND & GRAVEL
Lab Sample ID: A8749001
Date Collected: 06/24/2008
Time Collected: 16:01

Date Received: 06/24/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
Naphthalene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Pentachlorophenol	ND		340	UG/KG	8270	06/30/2008 20:44	AJ
Phenanthrene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Phenol	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
Pyrene	ND		170	UG/KG	8270	06/30/2008 20:44	AJ
SOIL-SW8463 8081 - PART 375 SUBPART 6 PESTICI							
4,4'-DDD	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
4,4'-DDE	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
4,4'-DDT	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Aldrin	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
alpha-BHC	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
alpha-Chlordane	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
beta-BHC	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
delta-BHC	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Dieldrin	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Endosulfan I	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Endosulfan II	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Endosulfan Sulfate	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Endrin	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
gamma-BHC (Lindane)	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Heptachlor	ND		1.7	UG/KG	8081	06/28/2008 16:21	TCH
Metals Analysis							
Arsenic - Total	2.4		2.0	MG/KG	6010	06/25/2008 21:39	TWS
Barium - Total	17.6		0.50	MG/KG	6010	06/25/2008 21:39	TWS
Beryllium - Total	ND		0.20	MG/KG	6010	06/25/2008 21:39	TWS
Cadmium - Total	ND		0.20	MG/KG	6010	06/25/2008 21:39	TWS
Chromium - Total	4.8		0.50	MG/KG	6010	06/25/2008 21:39	TWS
Copper - Total	12.4		1.0	MG/KG	6010	06/25/2008 21:39	TWS
Lead - Total	3.8		1.0	MG/KG	6010	06/25/2008 21:39	TWS
Manganese - Total	359		0.20	MG/KG	6010	06/25/2008 21:39	TWS
Mercury - Total	ND		0.021	MG/KG	7471	06/26/2008 21:52	MM
Nickel - Total	9.2		0.50	MG/KG	6010	06/25/2008 21:39	TWS
Selenium - Total	ND		4.0	MG/KG	6010	06/25/2008 21:39	TWS
Silver - Total	ND		0.50	MG/KG	6010	06/25/2008 21:39	TWS
Zinc - Total	28.8		2.0	MG/KG	6010	06/25/2008 21:39	TWS
Wet Chemistry Analysis							
Cyanide - Total	ND		0.89	UG/G	9012	06/27/2008 09:10	ERK
Hexavalent Chromium - Total	ND		1.6	MG/KG	7196A	06/27/2008 14:00	TL

Batch Quality Control Data

Lab Sample ID: A8709311 A8709311MS A8709311SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	0	13.56	13.05	12.54	11.30	108	115	112	6	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8709513 A8709513MS A8709513SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	0	11.19	10.53	11.24	10.95	100	96	98	4	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8711905 A8711905MS A8711905SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS TOTAL CYANIDE	UG/L	0	122.0	116.0	100.0	100.0	122 *	116 *	119	5	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8716806 A8716806MS A8716806SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS TOTAL CYANIDE METHOD 9012 - SOIL	MG/KG	0	12.89	12.44	11.56	11.17	111	111	111	0	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8717305 A8717305MS A8717305SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS TOTAL CYANIDE METHOD 9012 - SOIL	MG/KG	0	12.98	12.74	11.29	11.54	115	110	113	4	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8729902 A8729902MS A8729902SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/KG	0	1445	1371	1564	1258	92	109	101	17	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8729902F1 A8729902C A8729902D

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/KG	0	6.25	6.56	12.32	12.32	51 *	53 *	52	4	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis
METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client ID		VBLK38							
Job No	Lab ID	A08-7490	A8B1782902						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dioxane	UG/KG	ND	200	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	ND	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
tert-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	94	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	90	50-200	NA		NA		NA	
Toluene-D8	%	110	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	102	72-126	NA		NA		NA	
1,2-Dichloroethane-D4	%	90	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A08-7490	A8B1772002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	160	NA		NA		NA	
Acenaphthylene	UG/KG	ND	160	NA		NA		NA	
Anthracene	UG/KG	ND	160	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	160	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	160	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	160	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	160	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	160	NA		NA		NA	
Chrysene	UG/KG	18 J	160	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	160	NA		NA		NA	
Dibenzofuran	UG/KG	ND	160	NA		NA		NA	
Fluoranthene	UG/KG	ND	160	NA		NA		NA	
Fluorene	UG/KG	ND	160	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	160	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	160	NA		NA		NA	
2-Methylphenol	UG/KG	ND	160	NA		NA		NA	
3- & 4-Methylphenol	UG/KG	ND	640	NA		NA		NA	
Naphthalene	UG/KG	ND	160	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	320	NA		NA		NA	
Phenanthrene	UG/KG	ND	160	NA		NA		NA	
Phenol	UG/KG	ND	160	NA		NA		NA	
Pyrene	UG/KG	ND	160	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	106	50-200	NA		NA		NA	
Naphthalene-D8	%	109	50-200	NA		NA		NA	
Acenaphthene-D10	%	95	50-200	NA		NA		NA	
Phenanthrene-D10	%	108	50-200	NA		NA		NA	
Chrysene-D12	%	101	50-200	NA		NA		NA	
Perylene-D12	%	106	50-200	NA		NA		NA	
Nitrobenzene-D5	%	53	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	62	43-120	NA		NA		NA	
p-Terphenyl-d14	%	88	51-125	NA		NA		NA	
Phenol-D5	%	60	36-120	NA		NA		NA	
2-Fluorophenol	%	50	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	70	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-7490	A8B1778903						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.6	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.6	NA		NA		NA	
beta-BHC	UG/KG	ND	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.6	NA		NA		NA	
delta-BHC	UG/KG	ND	1.6	NA		NA		NA	
alpha-Chlordane	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.6	NA		NA		NA	
Dieldrin	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.6	NA		NA		NA	
Endrin	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor	UG/KG	ND	1.6	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	37-136	NA		NA		NA	
Decachlorobiphenyl	%	87	42-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis
TOTAL TITLE 6 PART 375 METALS

Client ID Job No Lab ID Sample Date		Method Blank A08-7490 A8B1769702		Method Blank A08-7490 A8B1779602					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Manganese - Total	MG/KG	ND	0.20	NA		NA		NA	
Copper - Total	MG/KG	ND	1.0	NA		NA		NA	
Silver - Total	MG/KG	ND	0.50	NA		NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA		NA		NA	
Zinc - Total	MG/KG	ND	2.0	NA		NA		NA	
Selenium - Total	MG/KG	ND	4.0	NA		NA		NA	
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	
Barium - Total	MG/KG	ND	0.50	NA		NA		NA	
Beryllium - Total	MG/KG	ND	0.20	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA		NA		NA	
Nickel - Total	MG/KG	ND	0.50	NA		NA		NA	
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-7490 A8B1772204		Method Blank A08-7490 A8B1801402					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	NA		NA		NA	
Hexavalent Chromium - Total	MG/KG	NA		ND	1.5	NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK38 MSB38
Lab Sample ID: A8B1782902 A8B1782901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - PART 375 SUBPART 6 VOLATIL					
1,1-Dichloroethene	UG/KG	55.6	50.0	111	65-146
Trichloroethene	UG/KG	54.1	50.0	108	74-127
Benzene	UG/KG	53.6	50.0	107	74-128
Toluene	UG/KG	54.9	50.0	110	74-123
Chlorobenzene	UG/KG	54.2	50.0	108	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A8B1772002 A8B1772001

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOL					
Phenol	UG/KG	1590	3227	49	36-110
Acenaphthene	UG/KG	2335	3227	72	53-119
Pentachlorophenol	UG/KG	2207	3227	68	33-136
Pyrene	UG/KG	3165	3227	98	51-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1778903 | A8B1778901 | A8B1778902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8081 -PART 375, SUBPART 6 PESTICI											
gamma-BHC (Lindane)	UG/KG	13.7	13.9	16.5	16.5	83	84	84	1	50.0	37-120
alpha-BHC	UG/KG	13.9	13.9	16.5	16.5	84	84	84	0	50.0	35-120
Heptachlor	UG/KG	15.0	15.0	16.5	16.5	90	91	91	1	50.0	21-141
Aldrin	UG/KG	4.78	7.96	16.5	16.5	29 *	48	39	49	50.0	38-120
beta-BHC	UG/KG	14.7	14.6	16.5	16.5	89	88	89	1	50.0	35-133
delta-BHC	UG/KG	15.0	14.9	16.5	16.5	91	90	91	1	50.0	23-126
Dieldrin	UG/KG	17.2	15.6	16.5	16.5	104	94	99	10	50.0	36-120
Endrin	UG/KG	16.1	16.0	16.5	16.5	97	97	97	0	50.0	39-126
4,4'-DDD	UG/KG	19.6	18.8	16.5	16.5	119	114	117	4	50.0	33-127
4,4'-DDT	UG/KG	18.4	18.0	16.5	16.5	111	109	110	2	50.0	47-145
4,4'-DDE	UG/KG	15.3	15.3	16.5	16.5	92	93	93	1	50.0	22-141
Endosulfan I	UG/KG	14.8	14.8	16.5	16.5	90	90	90	0	50.0	29-125
Endosulfan II	UG/KG	17.1	16.6	16.5	16.5	103	100	102	3	50.0	39-121
Endosulfan Sulfate	UG/KG	16.1	15.9	16.5	16.5	97	96	97	1	50.0	43-120
alpha-Chlordane	UG/KG	15.3	15.1	16.5	16.5	93	91	92	2	50.0	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

TIGHE AND BOND
Total Title 6 Part 375 Metals
LABORATORY CONTROL SAMPLE

Soil LCS Source: ERA D055-540

Lab Samp ID: A8B1769701
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Arsenic	88.8	85.0		71.8	106	95.7
Barium	427	423		353	501	99.1
Beryllium	61.3	57.7		50.9	71.7	94.1
Cadmium	63.0	60.3		51.7	74.3	95.7
Chromium	97.9	89.8		77.2	118	91.7
Copper	87.0	82.1		71.7	102	94.4
Lead	88.9	87.3		72.7	105	98.2
Manganese	301	290		238	364	96.3
Nickel	116	110		95.8	136	94.8
Selenium	155	154		120	190	99.4
Silver	81.6	76.7		54.1	109	94.0
Zinc	230	219		182	278	95.2

Soil LCS Source: ERA D052-540

Lab Samp ID: A8B1779601
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Mercury	3.9	3.0		2.6	5.2	76.9

Client Sample ID: Method Blank
Lab Sample ID: A8B1772204

LCS
A8B1772203

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	72.13	77.10	94	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A8B1801402

LCS
A8B1801401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM	MG/KG	40.58	39.50	103	40-159

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID Job No & Lab Sample ID	FREY SAND & GRAVEL A08-7490 A8749001				
Sample Date	06/24/2008 16:01				
Received Date	06/24/2008 16:50				
Extraction Date					
Analysis Date	06/26/2008 15:53				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.01 GRAMS				
% Dry	94.85				

NA = Not Applicable

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID	VBLK38				
Job No & Lab Sample ID	A08-7490 A8B1782902				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/26/2008 10:18				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID Job No & Lab Sample ID	FREY SAND & GRAVEL A08-7490 A8749001				
Sample Date	06/24/2008 16:01				
Received Date	06/24/2008 16:50				
Extraction Date	06/25/2008 13:30				
Analysis Date	06/30/2008 20:44				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.75 GRAMS				
% Dry	94.85				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID	SBLK				
Job No & Lab Sample ID	A08-7490 A8B1772002				
Sample Date					
Received Date					
Extraction Date	06/25/2008 13:30				
Analysis Date	06/30/2008 14:58				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.76 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	FREY SAND & GRAVEL A08-7490 A8749001				
Sample Date	06/24/2008 16:01				
Received Date	06/24/2008 16:50				
Extraction Date	06/26/2008 13:45				
Analysis Date	06/28/2008 16:21				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.47 GRAMS				
% Dry	94.85				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A08-7490 A8B1778903				
Sample Date					
Received Date					
Extraction Date	06/26/2008 13:45				
Analysis Date	06/28/2008 15:45				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.99 GRAMS				
% Dry	100.00				

NA = Not Applicable

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8749001	FREY SAND & GRAVEL	RECNY	Arsenic - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Barium - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Copper - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Lead - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Mercury - Total	7471	1.0	94.85	0.6023 g	06/24/2008 16:01	06/24 16:50	06/26 21:52	MM	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Silver - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	94.85	0.528 g	06/24/2008 16:01	06/24 16:50	06/25 21:39	TWS	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
QC CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol	g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1769702	Method Blank	RECNY	Arsenic - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Barium - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Copper - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Lead - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Silver - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	100.00	0.5	g	-	-	06/25 18:02	TWS	Y	SOIL
A8B1779602	Method Blank	RECNY	Mercury - Total	7471	1.0	100.00	0.6	g	-	-	06/26 21:55	MM	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8749001	FREY SAND & GRAVEL	RECNY	Hexavalent Chromium - Total	7196A	1.0	94.85	5.0308 g	06/24/2008 16:01	06/24 16:50	06/27 14:00	TL	Y	SOIL
		RECNY	Cyanide - Total	9012	1.0	94.85	0.5917 g	06/24/2008 16:01	06/24 16:50	06/27 09:10	ERK	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1772204	Method Blank	RECNY	Cyanide - Total	9012	1.0	100.00	0.5 g	-	-	06/27 09:10	ERK	Y	SOIL
A8B1801402	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	100.00	5.0 g	-	-	06/27 14:00	TL	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody Record

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TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
Tighe & Bond Inc.	Jim Olsen	6-24-08	389214
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
213 Court St Suite 900	860 704 4700		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Middletown, CT 06457	Michele Alchisco		
Project Name and Location (State)	**Carrier/Waybill Number**		
Former N.L. Industries / Depew, NY			
Contract/Purchase Order/Quote No.			
6254			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Part 375 SVOCs	VOCs	Pesticide	Herbicide	Part 375 Metals	Total Cyanide	Hex Chromium	Special Instructions/ Conditions of Receipt
Frey Swol + Gwl	6-24-08	1601				X	4						X	X	X	X	X	X	X	NY7A9718.1
																				Task 4. the tests were part 375- SVOCs, VOCs, Pesticide, Herbicide, Part 375- Metals, total Cyanide, and Hexavalent Chromium
																				Imported Backfill limits

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 Days

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Greg Beach	6-24-08	1650		6/24/08	1650
2.						
3.						

Comments

2.0°

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A08-6953

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

07/01/2008

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TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8695301	GAS FILL SAND	SOIL	06/16/2008	11:00	06/16/2008	12:35

METHODS SUMMARY

Job#: A08-6953

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - PART 375 SUBPART 6 VOLATILES	SW8463 8260
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES	SW8463 8270
METHOD 8081 -PART 375, SUBPART 6 PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Lead - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012
Hexavalent Chromium - Total	SW8463 7196A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-6953

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-6953
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8082, the response of the instrument is decreased due to the heavy matrix effects from the field samples, resulting in >15% difference in the continuing calibration verifications analyzed after these sample extracts. Subsequent continuing calibration verifications demonstrated compliance with routine quality control criteria, verifying the temporary nature of this effect.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Procedures for Hexavalent Chromium in soil require analysis of both Soluble and Insoluble spike samples. The Insoluble spike samples are designated as MS/MSD and the Soluble spike samples are designated as C/D. Due to LIMs limitations, a replicate base sample identifier (suffix=F1) has also been entered to associate base results with and to calculate the Soluble spike results.

****

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample ID: GAS FILL SAND
Lab Sample ID: A8695301
Date Collected: 06/16/2008
Time Collected: 11:00

Date Received: 06/16/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8260 -PART 375 SUBPART 6 VOLATILE							
1,1,1-Trichloroethane	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,1-Dichloroethane	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,1-Dichloroethene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,2,4-Trimethylbenzene	1	J	5	UG/KG	8260	06/24/2008 05:46	JLG
1,2-Dichlorobenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,2-Dichloroethane	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,3,5-Trimethylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,3-Dichlorobenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,4-Dichlorobenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
1,4-Dioxane	ND		200	UG/KG	8260	06/24/2008 05:46	JLG
2-Butanone	ND		26	UG/KG	8260	06/24/2008 05:46	JLG
Acetone	ND		26	UG/KG	8260	06/24/2008 05:46	JLG
Benzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Carbon Tetrachloride	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Chlorobenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Chloroform	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
cis-1,2-Dichloroethene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Ethylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Methyl-t-Butyl Ether (MTBE)	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Methylene chloride	6		5	UG/KG	8260	06/24/2008 05:46	JLG
n-Butylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
n-Propylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
sec-Butylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
tert-Butylbenzene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Tetrachloroethene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Toluene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Total Xylenes	ND		15	UG/KG	8260	06/24/2008 05:46	JLG
trans-1,2-Dichloroethene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Trichloroethene	ND		5	UG/KG	8260	06/24/2008 05:46	JLG
Vinyl chloride	ND		10	UG/KG	8260	06/24/2008 05:46	JLG
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
2-Methylphenol	ND		180	UG/KG	8270	06/26/2008 12:41	MD
3- & 4-Methylphenol	ND		690	UG/KG	8270	06/26/2008 12:41	MD
Acenaphthene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Acenaphthylene	21	J	180	UG/KG	8270	06/26/2008 12:41	MD
Anthracene	33	J	180	UG/KG	8270	06/26/2008 12:41	MD
Benzo(a)anthracene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Benzo(a)pyrene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Benzo(b)fluoranthene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Benzo(ghi)perylene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Benzo(k)fluoranthene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Chrysene	29	BJ	180	UG/KG	8270	06/26/2008 12:41	MD
Dibenzo(a,h)anthracene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Dibenzofuran	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Fluoranthene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Fluorene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Hexachlorobenzene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Indeno(1,2,3-cd)pyrene	ND		180	UG/KG	8270	06/26/2008 12:41	MD

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: GAS FILL SAND
Lab Sample ID: A8695301
Date Collected: 06/16/2008
Time Collected: 11:00

Date Received: 06/16/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
Naphthalene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Pentachlorophenol	ND		340	UG/KG	8270	06/26/2008 12:41	MD
Phenanthrene	10	J	180	UG/KG	8270	06/26/2008 12:41	MD
Phenol	ND		180	UG/KG	8270	06/26/2008 12:41	MD
Pyrene	ND		180	UG/KG	8270	06/26/2008 12:41	MD
SOIL-SW8463 8081 - PART 375 SUBPART 6 PESTICI							
4,4'-DDD	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
4,4'-DDE	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
4,4'-DDT	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Aldrin	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
alpha-BHC	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
alpha-Chlordane	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
beta-BHC	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
delta-BHC	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Dieldrin	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Endosulfan I	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Endosulfan II	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Endosulfan Sulfate	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Endrin	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
gamma-BHC (Lindane)	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
Heptachlor	ND		1.8	UG/KG	8081	06/25/2008 12:20	TCH
SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1221	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1232	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1242	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1248	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1254	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1260	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1262	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Aroclor 1268	ND		17	UG/KG	8082	06/20/2008 22:14	DW
Metals Analysis							
Arsenic - Total	6.1		2.1	MG/KG	6010	06/19/2008 02:56	AH
Barium - Total	45.2		0.52	MG/KG	6010	06/19/2008 02:56	AH
Beryllium - Total	0.30		0.21	MG/KG	6010	06/19/2008 02:56	AH
Cadmium - Total	0.34		0.21	MG/KG	6010	06/19/2008 02:56	AH
Chromium - Total	8.7		0.52	MG/KG	6010	06/19/2008 02:56	AH
Copper - Total	23.0		1.0	MG/KG	6010	06/19/2008 02:56	AH
Lead - Total	8.6		1.0	MG/KG	6010	06/19/2008 02:56	AH
Manganese - Total	434		0.21	MG/KG	6010	06/19/2008 02:56	AH
Mercury - Total	ND		0.022	MG/KG	7471	06/18/2008 16:23	MM
Nickel - Total	15.3		0.52	MG/KG	6010	06/19/2008 02:56	AH
Selenium - Total	ND		4.2	MG/KG	6010	06/24/2008 23:16	AH
Silver - Total	ND		0.52	MG/KG	6010	06/19/2008 02:56	AH
Zinc - Total	76.7		2.1	MG/KG	6010	06/19/2008 02:56	AH

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: GAS FILL SAND
Lab Sample ID: A8695301
Date Collected: 06/16/2008
Time Collected: 11:00

Date Received: 06/16/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Wet Chemistry Analysis							
Cyanide - Total	ND		0.95	UG/G	9012	06/22/2008 08:01	ERK
Hexavalent Chromium - Total	ND		1.6	MG/KG	7196A	06/20/2008 12:00	KD

Batch Quality Control Data

Date: 07/01/2008 11:59:47
Batch No: A8B17409

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A8678917 A8678917MS A8678917SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS TOTAL CYANIDE METHOD 9012 - SOIL	MG/KG	0	10.83	6.43	11.65	6.90	93	93	93	0	15.0	85-115

12/44

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8679720 A8679720MS A8679720SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS TOTAL CYANIDE METHOD 9012 - SOIL	MG/KG	0	10.60	11.50	9.72	10.78	109	107	108	2	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8681107 A8681107MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS ALLIED - METHOD 9012 - TOTAL CYANIDE -	MG/L	0	0	0.100	0 *	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8689211 A8689211MS A8689211SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/KG	0	1054	2197	1428	1276	74 *	172 *	123	80 *	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8694206 A8694206MS A8694206SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
WET CHEMISTRY ANALYSIS												
METHOD 335.4 - TOTAL CYANIDE	MG/L	0	0.130	0.124	0.100	0.100	131 *	124 *	128	5	15.0	85-115
METHOD 4500-CN I - FREE CYANIDE	MG/L	0	0.0915	0.0995	0.100	0.100	92	100	96	8	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8704201 A8704201MS A8704201SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 335.4 - TOTAL CYANIDE (.08)	MG/L	0	0.115	0.121	0.100	0.100	116 *	121 *	119	4	15.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8689211F1 A8689211C A8689211D

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS HEXAVALENT CHROMIUM	MG/KG	0	2.88	2.64	12.15	12.15	24 *	22 *	23	9	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis
METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client ID	vblk33							
Job No Lab ID	A08-6953	A8B1763802						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dioxane	UG/KG	ND	200	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	ND	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
tert-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	98	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	98	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	97	50-200	NA		NA		NA	
Toluene-D8	%	111	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	104	72-126	NA		NA		NA	
1,2-Dichloroethane-D4	%	100	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client ID		SBLK							
Job No	Lab ID	A08-6953	A8B1742903						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	170	NA		NA		NA	
Acenaphthylene	UG/KG	ND	170	NA		NA		NA	
Anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	170	NA		NA		NA	
Chrysene	UG/KG	16 J	170	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	170	NA		NA		NA	
Dibenzofuran	UG/KG	ND	170	NA		NA		NA	
Fluoranthene	UG/KG	ND	170	NA		NA		NA	
Fluorene	UG/KG	ND	170	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	170	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	170	NA		NA		NA	
2-Methylphenol	UG/KG	ND	170	NA		NA		NA	
3- & 4-Methylphenol	UG/KG	ND	650	NA		NA		NA	
Naphthalene	UG/KG	ND	170	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	320	NA		NA		NA	
Phenanthrene	UG/KG	ND	170	NA		NA		NA	
Phenol	UG/KG	ND	170	NA		NA		NA	
Pyrene	UG/KG	ND	170	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	65	50-200	NA		NA		NA	
Naphthalene-D8	%	68	50-200	NA		NA		NA	
Acenaphthene-D10	%	63	50-200	NA		NA		NA	
Phenanthrene-D10	%	67	50-200	NA		NA		NA	
Chrysene-D12	%	74	50-200	NA		NA		NA	
Perylene-D12	%	68	50-200	NA		NA		NA	
Nitrobenzene-D5	%	74	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	86	43-120	NA		NA		NA	
p-Terphenyl-d14	%	73	51-125	NA		NA		NA	
Phenol-D5	%	69	36-120	NA		NA		NA	
2-Fluorophenol	%	63	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	93	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-6953	A8B1746703						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.6	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.6	NA		NA		NA	
beta-BHC	UG/KG	ND	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.6	NA		NA		NA	
delta-BHC	UG/KG	ND	1.6	NA		NA		NA	
alpha-Chlordane	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.6	NA		NA		NA	
Dieldrin	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.6	NA		NA		NA	
Endrin	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor	UG/KG	ND	1.6	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	93	37-136	NA		NA		NA	
Decachlorobiphenyl	%	105	42-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-6953	A8B1739202						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	ND	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
Aroclor 1262	UG/KG	ND	16	NA		NA		NA	
Aroclor 1268	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	110	35-134	NA		NA		NA	
Decachlorobiphenyl	%	70	34-148	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-6953 A8B1726102		Method Blank A08-6953 A8B1731002					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Manganese - Total	MG/KG	ND	0.20	NA		NA		NA	
Copper - Total	MG/KG	ND	1.0	NA		NA		NA	
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	
Silver - Total	MG/KG	ND	0.50	NA		NA		NA	
Nickel - Total	MG/KG	ND	0.50	NA		NA		NA	
Selenium - Total	MG/KG	ND	4.0	NA		NA		NA	
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA		NA		NA	
Barium - Total	MG/KG	ND	0.50	NA		NA		NA	
Beryllium - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Zinc - Total	MG/KG	ND	2.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-6953 A8B1740904		Method Blank A08-6953 A8B1758602					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	NA		NA		NA	
Hexavalent Chromium - Total	MG/KG	NA		ND	1.5	NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: vblk33 msb33
Lab Sample ID: A8B1763802 A8B1763801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - PART 375 SUBPART 6 VOLATIL					
1,1-Dichloroethene	UG/KG	42.2	50.0	84	65-146
Trichloroethene	UG/KG	47.5	50.0	95	74-127
Benzene	UG/KG	46.9	50.0	94	74-128
Toluene	UG/KG	46.7	50.0	94	74-123
Chlorobenzene	UG/KG	47.2	50.0	94	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A8B1742903 A8B1742901 A8B1742902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOL											
Phenol	UG/KG	2478	2638	3294	3328	75	79	77	5	25.0	36-110
Acenaphthene	UG/KG	3017	2998	3294	3328	92	90	91	2	16.0	53-119
Pentachlorophenol	UG/KG	3681	3558	3294	3328	112	107	110	4	27.0	33-136
Pyrene	UG/KG	3078	2873	3294	3328	93	86	90	8	25.0	51-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank Matrix Spike Blank
Lab Sample ID: A8B1739202 A8B1739201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8082 - POLYCHLORINATED BIPHENYLS					
Aroclor 1260	UG/KG	156	163	96	52-140
Aroclor 1016	UG/KG	163	163	100	59-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1746703 | A8B1746701 | A8B1746702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8081 -PART 375, SUBPART 6 PESTICI											
gamma-BHC (Lindane)	UG/KG	15.5	15.6	16.4	16.5	94	95	95	1	50.0	37-120
alpha-BHC	UG/KG	15.1	15.3	16.4	16.5	92	92	92	0	50.0	35-120
Heptachlor	UG/KG	15.4	15.7	16.4	16.5	93	95	94	2	50.0	21-141
Aldrin	UG/KG	8.51	8.49	16.4	16.5	52	51	52	2	50.0	38-120
beta-BHC	UG/KG	16.5	16.7	16.4	16.5	100	101	101	1	50.0	35-133
delta-BHC	UG/KG	16.0	16.2	16.4	16.5	97	98	98	1	50.0	23-126
Dieldrin	UG/KG	16.1	16.4	16.4	16.5	98	99	99	1	50.0	36-120
Endrin	UG/KG	15.8	15.6	16.4	16.5	96	95	96	1	50.0	39-126
4,4'-DDD	UG/KG	19.3	18.8	16.4	16.5	117	114	116	2	50.0	33-127
4,4'-DDT	UG/KG	16.0	16.8	16.4	16.5	97	102	100	5	50.0	47-145
4,4'-DDE	UG/KG	16.3	16.8	16.4	16.5	99	102	101	3	50.0	22-141
Endosulfan I	UG/KG	14.3	14.8	16.4	16.5	87	89	88	2	50.0	29-125
Endosulfan II	UG/KG	15.9	15.6	16.4	16.5	96	94	95	2	50.0	39-121
Endosulfan Sulfate	UG/KG	17.1	17.6	16.4	16.5	104	106	105	2	50.0	43-120
alpha-Chlordane	UG/KG	16.3	16.6	16.4	16.5	99	101	100	2	50.0	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

TIGHE AND BOND
Total Title 6 Part 375 Metals
LABORATORY CONTROL SAMPLE

Soil LCS Source: ERA D055-540

Lab Samp ID: A8B1726101
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Arsenic	88.8	87.8		71.8	106	98.9
Barium	427	438		353	501	102.6
Beryllium	61.3	62.0		50.9	71.7	101.1
Cadmium	63.0	65.6		51.7	74.3	104.1
Chromium	97.9	97.0		77.2	118	99.1
Copper	87.0	88.2		71.7	102	101.4
Lead	88.9	90.3		72.7	105	101.6
Manganese	301	294		238	364	97.7
Nickel	116	119		95.8	136	102.6
Selenium	155	157		120	190	101.3
Silver	81.6	80.9		54.1	109	99.1
Zinc	230	235		182	278	102.2

Soil LCS Source: ERA D052-540

Lab Samp ID: A8B1731001
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Mercury	3.9	3.4		2.6	5.2	87.2

Client Sample ID: Method Blank
Lab Sample ID: A8B1740904

LCS
A8B1740903

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	88.35	77.10	114	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A8B1758602 A8B1758601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM	MG/KG	41.40	39.50	105	40-159

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID Job No & Lab Sample ID	GAS FILL SAND A08-6953 A8695301				
Sample Date	06/16/2008 11:00				
Received Date	06/16/2008 12:35				
Extraction Date					
Analysis Date	06/24/2008 05:46				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.2 GRAMS				
% Dry	93.81				

NA = Not Applicable

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID Job No & Lab Sample ID	vblk33 A08-6953 A8B1763802				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/23/2008 23:35				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID Job No & Lab Sample ID	GAS FILL SAND A08-6953 A8695301				
Sample Date	06/16/2008 11:00				
Received Date	06/16/2008 12:35				
Extraction Date	06/20/2008 08:00				
Analysis Date	06/26/2008 12:41				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.38 GRAMS				
% Dry	94.81				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID	SBLK				
Job No & Lab Sample ID	A08-6953 A8B1742903				
Sample Date					
Received Date					
Extraction Date	06/20/2008 08:00				
Analysis Date	06/25/2008 17:30				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.53 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	GAS FILL SAND A08-6953 A8695301				
Sample Date	06/16/2008 11:00				
Received Date	06/16/2008 12:35				
Extraction Date	06/20/2008 14:00				
Analysis Date	06/25/2008 12:20				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.18 GRAMS				
% Dry	94.81				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GAS FILL SAND A08-6953 A8695301				
Sample Date	06/16/2008 11:00				
Received Date	06/16/2008 12:35				
Extraction Date	06/19/2008 14:00				
Analysis Date	06/20/2008 22:14				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.38 GRAMS				
% Dry	94.81				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A08-6953 A8B1739202	Method Blank A08-6953 A8B1746703			
Sample Date					
Received Date					
Extraction Date		06/20/2008 14:00			
Analysis Date		06/25/2008 11:13			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		30.93 GRAMS			
% Dry		100.00			

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-6953 A8B1739202	Method Blank A08-6953 A8B1746703			
Sample Date					
Received Date					
Extraction Date	06/19/2008 14:00				
Analysis Date	06/20/2008 14:20				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.28 GRAMS				
% Dry	100.00				

NA = Not Applicable

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8695301	GAS FILL SAND	RECNY	Arsenic - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Barium - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Copper - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Lead - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Mercury - Total	7471	1.0	94.81	0.5712 g	06/16/2008 11:00	06/16 12:35	06/18 16:23	MM	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/24 23:16	AH	Y	SOIL
		RECNY	Silver - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	94.81	0.503 g	06/16/2008 11:00	06/16 12:35	06/19 02:56	AH	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol	g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1726102	Method Blank	RECNY	Arsenic - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Barium - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Copper - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Lead - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	100.00	0.5	g	-	-	06/24 20:47	AH	Y	SOIL
		RECNY	Silver - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	100.00	0.5	g	-	-	06/19 00:27	AH	Y	SOIL
A8B1731002	Method Blank	RECNY	Mercury - Total	7471	1.0	100.00	0.6	g	-	-	06/18 17:36	MM	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8695301	GAS FILL SAND	RECNY	Hexavalent Chromium - Total	7196A	1.0	94.81	4.98 g	06/16/2008 11:00	06/16 12:35	06/20 12:00	KD	Y	SOIL
		RECNY	Cyanide - Total	9012	1.0	94.81	0.5538 g	06/16/2008 11:00	06/16 12:35	06/22 08:01	ERK	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1740904	Method Blank	RECNY	Cyanide - Total	9012	1.0	100.00	0.5 g	-	-	06/22 08:01	ERK	Y	SOIL
A8B1758602	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	100.00	5.0 g	-	-	06/20 12:00	KD	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client: Tighe & Bond	Project Manager: James Olsen		Date: 6/16/08	Chain of Custody Number: 389212
Address: 213 Court Street, Suite 900	Telephone Number (Area Code)/Fax Number: 860 704 4761		Lab Number	Page 1 of 1
City: Middletown / State: CT / Zip Code: 06457	Site Contact: Michele Mulbiso	Lab Contact		
Project Name and Location (State): Former NL Industries Depew NY	Carrier/Waybill Number			
Contract/Purchase Order/Quote No.: 126258?CL				

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		NY7A971 SI	TASE 4	375 SVOCS	VOCS	Pesticide	Herbicide	375 metals	total cyanide	Hexavalent chrome	~~pH Nitrogen~~	~~phosphorus~~	~~potassium~~	Special Instructions/Conditions of Receipt
GAS FILL SAND	6/12/08	1100				X		X							X	X	X	X	X	X	X	X	X	X	X	X	

Matrix: Air / Aqueous / Sed. / Soil — Containers & Preservatives: Unpres. / H2SO4 / HNO3 / HCl / NaOH / ZnAc/NaOH

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STANDARD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	6/16/08		1. Received By: Andrew [signature]	6.16.08	1235
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ANALYTICAL REPORT

Job#: A08-8052

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY
Task: Imported Backfill Analysis

Ms. Michele A. Alabiso
Tighe & Bond
213 Court Street, Suite 900
Middleton, CT 530319

TestAmerica Laboratories Inc.

Paul K. Morrow
Project Manager

07/23/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Buffalo
Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA,RCRA	C1677
West Virginia	CWA,RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A8805201	TYPE II MODIFIED	SOIL	07/07/2008	16:50	07/08/2008	09:30

METHODS SUMMARY

Job#: A08-8052

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - PART 375 SUBPART 6 VOLATILES	SW8463 8260
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES	SW8463 8270
METHOD 8081 -PART 375, SUBPART 6 PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - PART 375 SUBPART 6 HERBICIDES	SW8463 8151
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Copper - Total	SW8463 6010
Lead - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Zinc - Total	SW8463 6010
Cyanide - Total	SW8463 9012
Hexavalent Chromium - Total	SW8463 7196A

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-8052

Project#: NY7A9718.1
Site Name: Tighe and Bond, NL Industries Depew, NY

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-8052
Sample Cooler(s) were received at the following temperature(s); 5.8 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The Relative Percent Difference between the Matrix Spike Blank A8B1848301 and the Matrix Spike Blank Duplicate A8B1848302 exceeded quality control criteria for Acenaphthene, Phenol and Pyrene, though all individual recoveries are compliant. No action required.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Procedures for Hexavalent Chromium in soil require analysis of both Soluble and Insoluble spike samples. The Insoluble spike samples are designated as MS/MSD and the Soluble spike samples are designated as C/D. Due to LIMs limitations, a replicate base sample identifier (suffix=F1) has also been entered to associate base results with and to calculate the Soluble spike results.

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DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
G	Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
*	Indicates the spike or duplicate analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TYPE II MODIFIED
Lab Sample ID: A8805201
Date Collected: 07/07/2008
Time Collected: 16:50

Date Received: 07/08/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8260 -PART 375 SUBPART 6 VOLATILE							
1,1,1-Trichloroethane	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,1-Dichloroethane	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,1-Dichloroethene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,2,4-Trimethylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,2-Dichlorobenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,2-Dichloroethane	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,3,5-Trimethylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,3-Dichlorobenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,4-Dichlorobenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
1,4-Dioxane	ND		200	UG/KG	8260	07/09/2008 23:19	JLG
2-Butanone	ND		25	UG/KG	8260	07/09/2008 23:19	JLG
Acetone	8	BJ	25	UG/KG	8260	07/09/2008 23:19	JLG
Benzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Carbon Tetrachloride	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Chlorobenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Chloroform	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
cis-1,2-Dichloroethene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Ethylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Methyl-t-Butyl Ether (MTBE)	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Methylene chloride	6		5	UG/KG	8260	07/09/2008 23:19	JLG
n-Butylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
n-Propylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
sec-Butylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
tert-Butylbenzene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Tetrachloroethene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Toluene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Total Xylenes	ND		15	UG/KG	8260	07/09/2008 23:19	JLG
trans-1,2-Dichloroethene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Trichloroethene	ND		5	UG/KG	8260	07/09/2008 23:19	JLG
Vinyl chloride	ND		10	UG/KG	8260	07/09/2008 23:19	JLG
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
2-Methylphenol	ND		180	UG/KG	8270	07/10/2008 18:22	MD
3- & 4-Methylphenol	ND		680	UG/KG	8270	07/10/2008 18:22	MD
Acenaphthene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Acenaphthylene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Anthracene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Benzo(a)anthracene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Benzo(a)pyrene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Benzo(b)fluoranthene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Benzo(ghi)perylene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Benzo(k)fluoranthene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Chrysene	16	BJ	180	UG/KG	8270	07/10/2008 18:22	MD
Dibenzo(a,h)anthracene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Dibenzofuran	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Fluoranthene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Fluorene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Hexachlorobenzene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Indeno(1,2,3-cd)pyrene	ND		180	UG/KG	8270	07/10/2008 18:22	MD

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TYPE II MODIFIED
Lab Sample ID: A8805201
Date Collected: 07/07/2008
Time Collected: 16:50

Date Received: 07/08/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SOIL-SW8463 8270 -PART 375 SUBPART 6 SVOA ORG							
Naphthalene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Pentachlorophenol	ND		340	UG/KG	8270	07/10/2008 18:22	MD
Phenanthrene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Phenol	ND		180	UG/KG	8270	07/10/2008 18:22	MD
Pyrene	ND		180	UG/KG	8270	07/10/2008 18:22	MD
SOIL-SW8463 8081 - PART 375 SUBPART 6 PESTICI							
4,4'-DDD	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
4,4'-DDE	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
4,4'-DDT	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Aldrin	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
alpha-BHC	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
alpha-Chlordane	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
beta-BHC	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
delta-BHC	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Dieldrin	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Endosulfan I	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Endosulfan II	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Endosulfan Sulfate	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Endrin	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
gamma-BHC (Lindane)	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
Heptachlor	ND		1.7	UG/KG	8081	07/10/2008 12:15	TCH
SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1221	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1232	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1242	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1248	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1254	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1260	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1262	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
Aroclor 1268	ND		17	UG/KG	8082	07/10/2008 12:11	GFD
SW8463 8151 - PART 375 SUBPART 6 HERBICIDES							
2,4,5-TP (Silvex)	ND		18	UG/KG	8151	07/14/2008 10:51	TCH
Metals Analysis							
Arsenic - Total	2.5		2.1	MG/KG	6010	07/10/2008 15:51	TWS
Barium - Total	34.3		0.53	MG/KG	6010	07/10/2008 15:51	TWS
Beryllium - Total	ND		0.21	MG/KG	6010	07/10/2008 15:51	TWS
Cadmium - Total	0.27		0.21	MG/KG	6010	07/10/2008 15:51	TWS
Chromium - Total	6.6		0.53	MG/KG	6010	07/10/2008 15:51	TWS
Copper - Total	18.5		1.0	MG/KG	6010	07/10/2008 15:51	TWS
Lead - Total	4.9		1.0	MG/KG	6010	07/10/2008 15:51	TWS
Manganese - Total	401		0.21	MG/KG	6010	07/10/2008 15:51	TWS
Mercury - Total	0.20		0.020	MG/KG	7471	07/10/2008 12:37	JA
Nickel - Total	10.2		0.53	MG/KG	6010	07/10/2008 15:51	TWS
Selenium - Total	ND		4.2	MG/KG	6010	07/10/2008 15:51	TWS

Tighe and Bond, NL Industries Depew, NY
Imported Backfill Analysis

Sample ID: TYPE II MODIFIED
Lab Sample ID: A8805201
Date Collected: 07/07/2008
Time Collected: 16:50

Date Received: 07/08/2008
Project No: NY7A9718.1
Client No: 108433
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Metals Analysis							
Silver - Total	ND		0.53	MG/KG	6010	07/10/2008 15:51	TWS
Zinc - Total	40.5		2.1	MG/KG	6010	07/10/2008 15:51	TWS
Wet Chemistry Analysis							
Cyanide - Total	ND		0.57	UG/G	9012	07/11/2008 10:00	ERK
Hexavalent Chromium - Total	ND		1.6	MG/KG	7196A	07/18/2008 15:00	TL

Batch Quality Control Data

Lab Sample ID: A8808701 A8808701MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	MG/L	0	0.0853	0.100	85	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8816402 A8816402MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
TVGA - ASPOO METHOD 7196A - HEXAVALENT	UG/G	0	2323	3181	73 *	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A8816402F1 A8816402C

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
TVGA - ASPOO METHOD 7196A - HEXAVALENT	UG/G	0	5.29	32.70	16 *	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID	vblk47							
Job No Lab ID	A08-8052	A8B1857202						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	9 J	25	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dioxane	UG/KG	ND	200	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	ND	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
tert-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	95	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	92	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	97	50-200	NA		NA		NA	
Toluene-D8	%	104	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	102	72-126	NA		NA		NA	
1,2-Dichloroethane-D4	%	95	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID	SBLK							
Job No Lab ID	A08-8052 A8B1848303							
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	170	NA		NA		NA	
Acenaphthylene	UG/KG	ND	170	NA		NA		NA	
Anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	170	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	170	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	170	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	170	NA		NA		NA	
Chrysene	UG/KG	15 J	170	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	170	NA		NA		NA	
Dibenzofuran	UG/KG	ND	170	NA		NA		NA	
Fluoranthene	UG/KG	ND	170	NA		NA		NA	
Fluorene	UG/KG	ND	170	NA		NA		NA	
Hexachlorobenzene	UG/KG	ND	170	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	170	NA		NA		NA	
2-Methylphenol	UG/KG	ND	170	NA		NA		NA	
3- & 4-Methylphenol	UG/KG	ND	650	NA		NA		NA	
Naphthalene	UG/KG	ND	170	NA		NA		NA	
Pentachlorophenol	UG/KG	ND	330	NA		NA		NA	
Phenanthrene	UG/KG	ND	170	NA		NA		NA	
Phenol	UG/KG	ND	170	NA		NA		NA	
Pyrene	UG/KG	ND	170	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	100	50-200	NA		NA		NA	
Naphthalene-D8	%	98	50-200	NA		NA		NA	
Acenaphthene-D10	%	94	50-200	NA		NA		NA	
Phenanthrene-D10	%	100	50-200	NA		NA		NA	
Chrysene-D12	%	86	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	61	35-120	NA		NA		NA	
2-Fluorobiphenyl	%	72	43-120	NA		NA		NA	
p-Terphenyl-d14	%	97	51-125	NA		NA		NA	
Phenol-D5	%	58	36-120	NA		NA		NA	
2-Fluorophenol	%	51	30-120	NA		NA		NA	
2,4,6-Tribromophenol	%	75	46-129	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-8052	A8B1848203						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aldrin	UG/KG	ND	1.6	NA		NA		NA	
alpha-BHC	UG/KG	ND	1.6	NA		NA		NA	
beta-BHC	UG/KG	ND	1.6	NA		NA		NA	
gamma-BHC (Lindane)	UG/KG	ND	1.6	NA		NA		NA	
delta-BHC	UG/KG	ND	1.6	NA		NA		NA	
alpha-Chlordane	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDD	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDE	UG/KG	ND	1.6	NA		NA		NA	
4,4'-DDT	UG/KG	ND	1.6	NA		NA		NA	
Dieldrin	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan I	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan II	UG/KG	ND	1.6	NA		NA		NA	
Endosulfan Sulfate	UG/KG	ND	1.6	NA		NA		NA	
Endrin	UG/KG	ND	1.6	NA		NA		NA	
Heptachlor	UG/KG	ND	1.6	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	87	37-136	NA		NA		NA	
Decachlorobiphenyl	%	93	42-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A08-8052	A8B1848203						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	ND	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
Aroclor 1262	UG/KG	ND	16	NA		NA		NA	
Aroclor 1268	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	35-134	NA		NA		NA	
Decachlorobiphenyl	%	88	34-148	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-8052 A8B1844903							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
2,4,5-TP (Silvex)	UG/KG	ND	17	NA		NA		NA	
SURROGATE(S)									
Dichlorophenyl Acetic Acid	%	53	29-142	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-8052 A8B1854602		Method Blank A08-8052 A8B1855302					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Manganese - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Beryllium - Total	MG/KG	ND	0.20	NA		NA		NA	
Barium - Total	MG/KG	ND	0.50	NA		NA		NA	
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	
Silver - Total	MG/KG	ND	0.50	NA		NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA		NA		NA	
Nickel - Total	MG/KG	ND	0.50	NA		NA		NA	
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	
Copper - Total	MG/KG	ND	1.0	NA		NA		NA	
Selenium - Total	MG/KG	ND	4.0	NA		NA		NA	
Zinc - Total	MG/KG	ND	2.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A08-8052 A8B1849204		Method Blank A08-8052 A8B1923102					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	UG/G	ND	1.0	NA		NA		NA	
Hexavalent Chromium - Total	MG/KG	NA		ND	1.5	NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: vblk47 msb47
Lab Sample ID: A8B1857202 A8B1857201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - PART 375 SUBPART 6 VOLATIL					
1,1-Dichloroethene	UG/KG	49.3	50.0	99	65-146
Trichloroethene	UG/KG	50.4	50.0	101	74-127
Benzene	UG/KG	50.0	50.0	100	74-128
Toluene	UG/KG	48.1	50.0	96	74-123
Chlorobenzene	UG/KG	48.3	50.0	97	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1848303 | A8B1848301 | A8B1848302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8270 -PART 375 SUBPART 6 SEMI-VOL											
Phenol	UG/KG	3169	2254	3311	3277	96	69	83	33 *	25.0	36-110
Acenaphthene	UG/KG	3279	2360	3311	3277	99	72	86	32 *	16.0	53-119
Pentachlorophenol	UG/KG	3390	2770	3311	3277	102	84	93	19	27.0	33-136
Pyrene	UG/KG	3503	2641	3311	3277	106	80	93	28 *	25.0	51-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1844903 | A8B1844901 | A8B1844902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
METHOD 8151 - PART 375 SUBPART 6 HERBIC											
2,4,5-TP (Silvex)	UG/KG	41.0	50.6	64.9	65.0	63	78	71	21	35.0	20-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A8B1848203

Matrix Spike Blank
A8B1848201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8082 - POLYCHLORINATED BIPHENYLS					
Aroclor 1260	UG/KG	155	165	94	52-140
Aroclor 1016	UG/KG	113	165	68	59-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A8B1848203 | A8B1848201 | A8B1848202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 8081 -PART 375, SUBPART 6 PESTICI											
gamma-BHC (Lindane)	UG/KG	13.4	14.9	16.5	16.4	82	90	86	9	50.0	37-120
alpha-BHC	UG/KG	13.6	15.0	16.5	16.4	83	91	87	9	50.0	35-120
Heptachlor	UG/KG	14.2	15.9	16.5	16.4	87	97	92	11	50.0	21-141
Aldrin	UG/KG	8.82	11.5	16.5	16.4	53	70	62	28	50.0	38-120
beta-BHC	UG/KG	14.4	16.3	16.5	16.4	87	99	93	13	50.0	35-133
delta-BHC	UG/KG	14.0	15.5	16.5	16.4	85	94	90	10	50.0	23-126
Dieldrin	UG/KG	14.5	16.4	16.5	16.4	88	100	94	13	50.0	36-120
Endrin	UG/KG	14.7	17.0	16.5	16.4	89	103	96	14	50.0	39-126
4,4'-DDD	UG/KG	16.1	18.1	16.5	16.4	98	110	104	12	50.0	33-127
4,4'-DDT	UG/KG	16.4	18.5	16.5	16.4	100	113	107	12	50.0	47-145
4,4'-DDE	UG/KG	14.5	16.5	16.5	16.4	88	101	95	14	50.0	22-141
Endosulfan I	UG/KG	14.2	16.0	16.5	16.4	86	97	92	12	50.0	29-125
Endosulfan II	UG/KG	14.7	16.8	16.5	16.4	89	102	96	14	50.0	39-121
Endosulfan Sulfate	UG/KG	14.7	16.3	16.5	16.4	89	99	94	11	50.0	43-120
alpha-Chlordane	UG/KG	14.6	16.5	16.5	16.4	86	97	92	12	50.0	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

TIGHE AND BOND
Total Title 6 Part 375 Metals
LABORATORY CONTROL SAMPLE

Soil LCS Source: ERA D055-540

Lab Samp ID: A8B1854601
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Arsenic	88.8	79.2		71.8	106	89.2
Barium	427	394		353	501	92.3
Beryllium	61.3	57.1		50.9	71.7	93.1
Cadmium	63.0	57.1		51.7	74.3	90.6
Chromium	97.9	87.2		77.2	118	89.1
Copper	87.0	79.8		71.7	102	91.7
Lead	88.9	80.8		72.7	105	90.9
Manganese	301	253		238	364	84.0
Nickel	116	107		95.8	136	92.2
Selenium	155	142		120	190	91.6
Silver	81.6	75.2		54.1	109	92.2
Zinc	230	213		182	278	92.6

Soil LCS Source: ERA D052-540

Lab Samp ID: A8B1855301
UM: MG/KG

Analyte	True	Found	C	Limits		%R
Mercury	3.9	3.3		2.6	5.2	84.6

Client Sample ID: Method Blank
Lab Sample ID: A8B1849204

LCS
A8B1849203

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	53.89	77.10	70	40-160

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A8B1923102

LCS
A8B1923101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS					
HEXAVALENT CHROMIUM	MG/KG	39.39	39.50	100	40-159

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID Job No & Lab Sample ID	TYPE II MODIFIED A08-8052 A8805201				
Sample Date	07/07/2008 16:50				
Received Date	07/08/2008 09:30				
Extraction Date					
Analysis Date	07/09/2008 23:19				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.24 GRAMS				
% Dry	95.56				

NA = Not Applicable

METHOD 8260 - PART 375 SUBPART 6 VOLATILES

Client Sample ID	vblk47				
Job No & Lab Sample ID	A08-8052 A8B1857202				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/09/2008 22:42				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID Job No & Lab Sample ID	TYPE II MODIFIED A08-8052 A8805201				
Sample Date	07/07/2008 16:50				
Received Date	07/08/2008 09:30				
Extraction Date	07/09/2008 14:00				
Analysis Date	07/10/2008 18:22				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.18 GRAMS				
% Dry	95.92				

NA = Not Applicable

METHOD 8270 -PART 375 SUBPART 6 SEMI-VOLATILES

Client Sample ID	SBLK				
Job No & Lab Sample ID	A08-8052 A8B1848303				
Sample Date					
Received Date					
Extraction Date	07/09/2008 14:00				
Analysis Date	07/10/2008 17:36				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.24 GRAMS				
% Dry	100.00				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	TYPE II MODIFIED A08-8052 A8805201				
Sample Date	07/07/2008 16:50				
Received Date	07/08/2008 09:30				
Extraction Date	07/09/2008 14:00				
Analysis Date	07/10/2008 12:15				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.94 GRAMS				
% Dry	95.92				

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	TYPE II MODIFIED A08-8052 A8805201				
Sample Date	07/07/2008 16:50				
Received Date	07/08/2008 09:30				
Extraction Date	07/09/2008 14:00				
Analysis Date	07/10/2008 12:11				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.94 GRAMS				
% Dry	95.92				

METHOD 8151 - PART 375 SUBPART 6 HERBICIDES

Client Sample ID Job No & Lab Sample ID	TYPE II MODIFIED A08-8052 A8805201				
Sample Date	07/07/2008 16:50				
Received Date	07/08/2008 09:30				
Extraction Date	07/09/2008 08:00				
Analysis Date	07/14/2008 10:51				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.08 GRAMS				
% Dry	95.92				

NA = Not Applicable

METHOD 8081 -PART 375, SUBPART 6 PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8052 A8B1844903	Method Blank A08-8052 A8B1848203			
Sample Date					
Received Date					
Extraction Date		07/09/2008 14:00			
Analysis Date		07/10/2008 13:56			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		SOIL	LOW		
Dilution Factor		1.0			
Sample wt/vol		30.86	GRAMS		
% Dry		100.00			

METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8052 A8B1844903	Method Blank A08-8052 A8B1848203			
Sample Date					
Received Date					
Extraction Date		07/09/2008 14:00			
Analysis Date		07/10/2008 11:56			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		SOIL	LOW		
Dilution Factor		1.0			
Sample wt/vol		30.86	GRAMS		
% Dry		100.00			

METHOD 8151 - PART 375 SUBPART 6 HERBICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8052 A8B1844903	Method Blank A08-8052 A8B1848203			
Sample Date					
Received Date					
Extraction Date	07/09/2008 08:00				
Analysis Date	07/14/2008 10:21				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL	LOW			
Dilution Factor	1.0				
Sample wt/vol	30.63	GRAMS			
% Dry	100.00				

NA = Not Applicable

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8805201	TYPE II MODIFIED	RECNY	Arsenic - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Barium - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Copper - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Lead - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Mercury - Total	7471	1.0	96.73	0.603 g	07/07/2008 16:50	07/08 09:30	07/10 12:37	JA	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Silver - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	96.73	0.489 g	07/07/2008 16:50	07/08 09:30	07/10 15:51	TWS	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol	g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1854602	Method Blank	RECNY	Arsenic - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Barium - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Beryllium - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Cadmium - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Chromium - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Copper - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Lead - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Manganese - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Nickel - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Selenium - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Silver - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
		RECNY	Zinc - Total	6010	1.0	100.00	0.5	g	-	-	07/10 15:40	TWS	Y	SOIL
A8B1855302	Method Blank	RECNY	Mercury - Total	7471	1.0	100.00	0.6	g	-	-	07/10 12:59	JA	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

NL INDUSTRIES, DEPEW, NY
IMPORTED BACKFILL ANALYSIS
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8805201	TYPE II MODIFIED	RECNY	Hexavalent Chromium - Total	7196A	1.0	95.92	4.9985 g	07/07/2008 16:50	07/08 09:30	07/18 15:00	TL	Y	SOIL
		RECNY	Cyanide - Total	9012	1.0	95.92	0.9176 g	07/07/2008 16:50	07/08 09:30	07/11 10:00	ERK	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	% Dry	Sample wt/vol g/L	Sample Date	Receive Date	Analysis Date	ANL INI	A H	Matrix
A8B1849204	Method Blank	RECNY	Cyanide - Total	9012	1.0	100.00	0.5 g	-	-	07/11 10:00	ERK	Y	SOIL
A8B1923102	Method Blank	RECNY	Hexavalent Chromium - Total	7196A	1.0	100.00	5.0 g	-	-	07/18 15:00	TL	Y	SOIL

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
Tighe & Bond Inc	Jim Olsen	7/7/08	370376
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
213 Court St Suite 900	860.704.4761 / 860.704.4775		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Middletown / CT / 06457	Michele Habiso	Paul Morrow	
Project Name and Location (State)	**Carrier/Waybill Number**		
Former VG Industries Depew, NY			
Contract/Purchase Order/Quote No.			
12 625-42-01			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Part 375 svocs	VOCs	Pesticides	Herbicides	Part 375 Metals	total Cyanide	Hex Chromium	PCBs	Special Instructions/ Conditions of Receipt
Type II Modified	7/7/08	1650				X	4						X	X	X	X	X	X	X	X	NY 7A9718.1 Task 4

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/8/08	0930	1. Received By	7-8-08	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

5.8°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

42/42

Tighe&Bond

APPENDIX B

Description of Meeting

FROM: Brian Conte, Tighe & Bond, Inc.

DATE: 11/2/07

ATTENDEES: Brian Conte – Tighe & Bond, Wes Jones - AAA Environmental; Rob Lychalk - AAA Environmental; Mike Pickering - AAA Environmental; Bill Murray – NYSDEC; Tom Derkovitz – Metro; Jeff Meyer – Metro; Jaspal Walia – NYSDEC

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1. **Progress since last meeting**
    a. Permit Submittals
        i. All permit submittals have been provided
        ii. AAA CIH to provide signed coversheet for AAA HASP
    b. NYSDEC
        i. NYSDEC has requested that a formal declaration that the remediated areas only extend to property line.
        ii. Any changes to project design must be provided in written form to NYSDEC for approval
        iii. NYSDEC has requested to see AAA Environmental personal air monitoring data
        iv. As requested, NYSDEC provided regulations on proper disposal of railroad ties
    c. On-site Screener
        i. Screener is on site and functioning
    d. Baker Tank – Stormwater Containment
        i. Baker Tank is on site and will collect significant quantities of rain water on site
        ii. Smaller ponding issues of water can be allowed to naturally percolate provided they do not interfere with backfilling or sampling activities.
        iii. Tighe & Bond will follow up with Buffalo Sewer Authority to determine if treated effluent can be discharged to sanitary sewer. AAA has activated carbon and bag filters that can be used to treat the effluent.
    e. Well Abandonment
        i. All 5 wells were located and abandoned. Well materials (i.e. pvc pipes and tubing) are still on site and will be taken off site as bulky waste
    f. Sub-grid Excavation
        i. As of the meeting 10 grids have been excavated (A1-A10). Four of the ten A-1 thru A-10 have been sampled and below standards
    g. Removal of Top Soil
        i. The top 6 inches of tops soil has been removed from within containment area and stockpiled on site. If the material meets NYS Brownfield Cleanup Program restricted residential soil cleanup objectives it can be used as cap material. The material has been sampled and awaiting laboratory analysis.
    h. Community of Air Monitoring

i. 5 days of high volume air sampling (1 upgradient and 1 downgradient) has been collected and submitted for analysis – results are pending. Paired Summa Canister samples (1 upgradient and 1 downgradient) have also been collected.

i. Containment Zone

i. Containment area has been clearly delineated on site and on map in trailer. AAA will maintain containment zone daily.

j. Waste Characterization and Manifest Forms

i. Tom Derkovitz has signed waste characterization forms and will sign manifest forms.

k. Waste Pile Accumulation

i. Top Soil – Has been sampled for comparison to NYS Brownfield Restricted Residential Standards

ii. Screened Piles – Materials passing through 6 inch screen will be moved to containment area. Materials not passing through (i.e. brick, concrete and wood) will need to be transferred off site.

iii. Wood Piles – Both the tree stumps and railroad ties have been sampled.

iv. Misc. Piles – Made up of concrete stormwater sewer, rebar, and monitoring well materials currently stored on site.

v. Tires – Have been decontaminated and moved out of hot zone.

vi. Mercaptan Capsules – Mercaptan capsules have been collected and containerized on site. Any excavation buckets that contain an odor will be stockpiled to avoid placing containers in containment area.

2. Survey Requirements

a. Topography of Clay Layer – Surveyor will provide an end product of a topography of clay layer meeting cleanup standards.

b. Determination of Excavated Materials- Survey company will calculate volumetric comparisons of excavation versus previous grade to determine quantities of excavated soils.

3. Compaction Testing

a. Compaction testing will be performed on first foot lift next week.

b. Tighe & Bond will research necessary compaction for area to the west of consolidation area. According to the RAP, compaction requirements are not stringent since the end use of the property is unknown.

4. Brownfield Tax Credit Eligibilty

a. Cascades will not be eligible to receive tax credits until 2008. The final signoff by NYSDEC will occur after engineering completion report by Tighe and Bond and is unlikely to occur earlier than Spring of 2008.

b. All site documentation (i.e manifests) need to be consistent with agreement between Cascades and NYSDEC in order to receive tax credit.

c. Cascades lawyers should be consultant at this early stage of the project to assure compliance with Brownfield tax credit procedures.

5. Holiday Scheduling

a. AAA and Tighe & Bond will be available to work on Saturday November 10 and Monday November 12. NYSDEC will also be on-site to monitor. MetroWaste gave verbal o.k.

6. Guard Rails vs. Jersey Barriers

a. Engineers can not certify the use of guard rails and therefore jersey barriers will he used on the top of parking lot.

7. Telephone Utility Pole and Natural Gas Line

a. AAA has followed up on the Natural Gas Line and they will need Engineer oversight. AAA will look into the Telephone Utility Pole guide wire to determine what will be required to dig around the wire.

8. Landfill Disposal

a. AAA has contacted EQ for landfill disposal alternatives. Samples of the tree piles and railroad tie piles have been sampled and will be submitted to determine appropriate disposal locations.

9. Backfilling

a. LaFarge Samples

i. Tighe & Bond has visited LaFarge and confirmed the material is virgin.

ii. Tighe a Bond has collected samples of the material to confirm compliance with restricted residential us.

10. Tighe & Bond personnel

i. Shannon Hunt of Tighe & Bond will be on-site 10/5/07 to 10/26/07. Brian Conte will return after 10/16/07.

ii. Kevin Glaser and Bill Murray of NYSDEC will alternate site visits.

11. Community Interest

a. Landscaping – Linda Hammer expressed an interest in placing trees along the southern side of the property to reduce wind and visibility of the railroad cars. MetroWaste will explore.

b. Dumping Permit Application – AAA submitted dumping application for importing of backfill material.

Description of Meeting

FROM: Brian Conte, Tighe & Bond, Inc.

DATE: 11/7/07

On October 24, 2007, a meeting was held at 3241 Walden Avenue, Depew NY to discuss remediation activities at the former N.L. Industry Site. The following are discussion items from this meeting.

1. Introduction
2. Status of Contractor Submittals – AAA Environmental (AAA)
    a. AAA submitted updated HASP. CIH to provide signed approval letter.
    b. Tighe & Bond, Inc (Tighe & Bond) to review AAA submittals over the next week. No outstanding submittals.
    c. AAA has submitted revised performance guarantees for cap material and wants to order material.
3. Activities Since Last Meeting
    a. Site has been cleared and grubbed
    b. Waste streams have been stockpiled (railroad ties, tires, tree stumps)
    c. Surveyor has staked out property lines, extent of consolidation area, and natural gas line
    d. Trailer on-site for NYSDEC and Tighe & Bond – Power still required
    e. Silt fencing and hay bales placed around north and west property boundaries
4. Gas Utility Line
    a. Gas line clearly marked out
    b. AAA to contact gas utility to discuss options of soil removal/remediation around gas line
    c. Impacted soil was likely removed to put gas line in. Maybe excavate up to backfill.
    d. NYSDEC wants all lead-impacted soil removed including surrounding gas line
5. Inspection Program
    a. Weather Station set up on site – logs wind direction and speed every 5 minutes
    b. DataRams collecting particulate data upwind and downwind property boundaries
    c. Summa Canisters and Birdcages set up to collect VOC and Lead concentrations at property boundaries
    d. AAA to perform their own personal air monitoring program
6. Activities for Upcoming Week
    a. Soil excavation determination switched from per ton base to per cubic yard basis.
    b. Survey elevation data will be collected per 900 square foot grid to determine quantity of excavated soil
    c. Compaction will be at 95%. Modified proctor testing will be used to determine potential for compaction. Compaction testing service will be on-site this week.

d. NYSDEC will be on site. NYSDEC must be on-site for all confirmation sampling.

7. Status of CAMP and SWPP
   a. Tighe & Bond completed CAMP and SWPP to be provided next week.
8. Schedule - AAA Environmental
   a. AAA plans to complete excavations and consolidations by end of November.
   b. Asphalt Plant may close at end of November. AAA stated that the asphalt plant may stay open for the project.
   c. NYSDEC was agreeable to postponing asphalt activities until springtime provided the cap and soils are in place.
9. Health and Safety Issues, Any Incidents?
   a. No. AAA is to where personal air monitoring devices until determination of lead concentrations.
   b. AAA environmental HASP is complete and covers Tighe & Bond employees.
   c. AAA CIH will provide letter stating approval of HASP
10. Neighborhood Issues, Any Complaints?
   a. A neighbor (Linda Strong) is concerned about property aesthetics. Has expressed concerns to MetroWaste but not Tighe & Bond or AAA Environmental.
   b. Tighe & Bond will document all community concerns and immediately report to NYSDEC
11. Date/Time of Next Meeting
   a. Friday November 3rd 11:00 - office space in MetroWaste.

Additional Discussions

12. Norampac wishes to determine approximate cost of NYSDEC oversight for inclusion into purchase negotiations. NYSDEC stated the costs are included in consent order and the attorneys representing NYSDEC and Norampac should discuss.
13. AAA to research using guard rails instead of jersey barriers at the top of the cap.

Document2

Description of Meeting

FROM: Brian Conte, Tighe & Bond, Inc.

DATE: 11/9/07

ATTENDEES: Brian Conte – Tighe & Bond, Shannon Hunt – Tighe & Bond; Wes Jones - AAA Environmental; Rob Lychalk - AAA Environmental; Mike Pickering - AAA Environmental; Bill Murray – NYSDEC; Tom Derkovitz – Metro; Jeff Meyer - Metro

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1. **Progress since last meeting**
   a. Baker Tank – Stormwater Containment
      i. Baker Tank is on-site and is approximately ¾ of capacity
      ii. AAA can bring out additional or larger pumps for greater pumping rates however soil disposal and compaction activities need to be clarified.
      iii. An additional Baker tank to be brought out to the site.
   b. Sub-grid Excavation
      i. 17 grids have been excavated – A1-A-10 and B1-B-7.
      ii. A1-A-4 and A-10 contained lead concentrations below standards.
      iii. A5-A-9 contained lead above 400 mg/kg standards
      iv. B1-B-7 was sampled and submitted for laboratory analysis but were placed on hold due to infiltration of surface water.
   c. Removal of Top Soil
      i. Piles of organic material from top soil have been piled up. Analytical data indicates the material is not suitable for cap since they fail restricted residential standards for several metals including lead.
   d. Community of Air Monitoring
      i. Community Air Monitoring results for High Volume sampling and summa Canister results were e-mailed to team.
      ii. All results were below action limits and high volume and summa canister sampling has ceased
      iii. Particulate sampling continues to be performed "real time" and are an order of magnitude below action levels.
   e. Containment Zone
      i. NYSDEC stated the containment zone appears to be in good order
      ii. Additional measures have been taken to address containment at southwestern corner of site.
   f. Waste Pile Accumulation
      i. Top Soil – Have been sampled for hazardous waste characterization – sample results pending
      ii. Screened Piles – Have been sampled for hazardous waste– sample results pending. Screening can not continue until large organic pile is removed.

iii. Wood Piles – Analytical results indicate the material is hazardous for lead. The analytical results have been forwarded to disposal facility. AAA states that wood pile will have to be mixed with soil before disposal.

iv. Misc. Piles – No action

v. Tires – Still on site but have been decontaminated

2. Compaction Testing

a. Compaction testing was performed on first lift with results indicating 85-89 percent compaction using a modified proctor.

b. Second proctor of second lift material was collected. Analysis pending.

c. AAA is removing crew from site until decision can be made with compaction issues. Discussion includes potentially not using the site as a parking lot but rather as a capped landfill.

d. AAA also suggested amending soil to meet compaction needs (i.e. cement dust).

e. MetroWaste states that the agreement was for a parking lot and would have to discuss with Cascades.

3. Potential Design Change for Project

a. NYSDEC stated that all changes in project design needs to be provided in writing.

b. NYSDEC stated they will expedite decision process to not interfere with project progress

4. Stormwater Runoff

a. A significant amount of stormwater runoff has entered the excavation and potentially bringing contaminated soil into the excavation

b. NYSDEC requested that all of the excavated grids be re-sampled.

c. Additional Baker Tanks are to be mobilized to the site.

d. A soil berm to be built around excavation to reduce further infiltration of stormwater runoff.

5. Telephone Utility Pole and Natural Gas Line

a. AAA will discuss further with utility companies.

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: 11/16/07

ATTENDEES: Leon Marineau-Cascades, Inc.; Wes Jones - AAA Environmental; Jaspal Walia-NYSDEC; Kevin Glaser – NYSDEC; Matt Forcucci – NYSDOH; Brian Conte – Tighe & Bond, Shannon Hunt – Tighe & Bond; Jim Olsen – Tighe & Bond; Tom Derkovitz – MetroWaste, Inc.

Baker Tank

- 3 tanks currently onsite, (2) 18,000 gallon tanks; (1) 10,000 gallon tank
- Need to collect filtered sample from tank for discharge purposes
- AAA has bad filters onsite – ready to treat and pump into 10,000 gallon tank

Discharge to Buffalo Sewer Authority

- T&B has contacted the Buffalo sewer authority (Nicole Elliott) and obtained information regarding discharge requirement.

Sub-Grid Excavation

- No sub-grade excavation completed due to water accumulation within the excavated areas and compaction issues

Waste Pile Accumulation

- Wood pile classified as hazardous – must be shipped off with hazardous soil. According to Wes of AAA, pile must be co-mingled with soil in order to accepted at disposal facility
- T&B proposes to use a "crusher" machine to crush concrete/screened material in order to be able to utilize it under the cap. Option is left open for now.

Compaction Testing

- A second round of compaction testing was completed at the site. Site failed to meet 95% compaction.
- Client suggests moving material to containment cell and compacting as much as possible now – then coming back in the spring/summer and conducting a dynamic compaction test. Tighe & Bond will have a geotechnical engineer verify if that approach would work.
- Tighe & Bond and AAA indicated that geosynthetic liner should not be placed on the cap until after dynamic compaction.
- DEC will need a letter informing them what the new approach will be. Approach needs to be approved by DEC. Client will provide the letter waiving compaction rates. NYSDEC cannot approve new plan until after receipt of letter.

Decision Document

- DEC states that according to the decision document the area "must" be used as a parking lot or other "usable" area.

Hazardous Waste Manifest Documentation

- Verification that Tom Derkovitz will be signing all manifests

Telephone Utility Pole

- Telephone utility personnel need to be notified prior to backfilling so that they can relocate.

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: 11/30/07

ATTENDEES: Leon Marineau-Cascades, Inc.; Wes Jones - AAA Environmental;Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Matt Forcucci – NYSDOH; Brian Conte – Tighe & Bond, Jim Olsen – Tighe & Bond; Jeff Meyers – MetroWaste, Inc.

NYSDEC and NYSDOH Concerns/Comments

- NYSDEC requested a letter from Cascades in response to their comments on the project change using dynamic compaction
- Cascades requested the NYSDEC letter be submitted again by e-mail and they would prepare response by end of the day
- NYSDEC expressed concerns about emergency contact information and hazardous waste qualification of generator signatures
    - Tighe and Bond stated they would provide appropriate emergency contact number
    - Cascades will provide letter to Tighe & Bond giving them authorization to sign manifests
    - All manifests will be signed by Tighe & Bond or knowledgeable party in the future

Baker Tank – Wastewater Containment

- Tighe & Bond stated that permit authorization has been obtained to discharge to sanitary sewer
    - Permit requires filtering of system
    - Permit requires maximum flow of 50 gpm
    - AAA stated that 50 gpm could be obtained through filtration system
- AAA stated they will discharge water over the weekend but not conduct any excavation activities
- NYSDEC stated that AAA would require spill containment materials prior to discharging to sanitary sewer
- Currently 5 Baker Tanks on-site – 1 Baker Tank (10,000) gallons has been filtered and can discharge to sewer

Sub-grid Excavation

Confirmation Sampling

- Currently 16 grids cleared for backfilling
- 5 additional cells have been re-excavated but are under water

Backfilling

- LaFarge results have been provided to NYSDEC – Concentrations of metals considered background and no detections of SVOCs in sample.
- Backfilling can occur in cleared cells

Air Monitoring

- Personal air monitoring conducted by AAA is significantly below actionable levels

- Community air monitoring conducted by Tighe & Bond is significantly below actionable levels

Telephone Guy Wires and Natural Gas Line

- AAA to furnish letter today to Tighe & Bond stating conversations with National Fuel Representatives
- AAA stated that both guy wires in work area have been removed
- AAA stated hardware on telephone pole in the center of the containment area has been raised above end elevation

Community Concerns

- None expressed to Tighe & Bond, AAA, NYSDEC, or NYSDOH

Updated Work Schedule

- AAA stated that all work will cease by December 19th for the holidays and resume in Spring
- AAA stated that all excavation activities could be completed by December 19th – weather permitting

Next Meeting

- Friday December 7th 11:00

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: 12/07/07

ATTENDEES: Leon Marineau-Cascades, Inc.; Wes Jones - AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Brian Conte – Tighe & Bond, Jim Olsen – Tighe & Bond; Tom Derkovitz– MetroWaste, Inc.

Completion of Activities

- Based on last two days of productivity, AAA estimates approximately 11 days of excavation to remove soil offsite.
- AAA stated they will cease excavation on December 21st.
- AAA stated they will not remove natural gas line before the spring.
- NYSDEC request an estimation of a schedule of completion of activities. The client should provide written documentation of deviation from Scope of Study to NYSDEC for there review and approval prior to leaving site. The client/Tighe and Bond needs to ensure the list of deviations is comprehensive. Examples include covering the consolidation material/leaving natural gas line area unexcavated, leaving Baker tanks on-site.
- AAA has recommended using a geotextile to cover the consolidation area for winterization. NYSDEC will review and provide guidance to the client.
- Tighe & Bond and client proposed backfilling prior to receiving results of confirmation sampling. This would be done if rain was eminent and a likelihood of generating more on-site wastewater. NYSDEC will review and provide guidance to the client.
- AAA anticipates conducting flushing of nearby storm sewers on Wednesday December 12, 2007.
- Due to the small volume of concrete material on site the material should be transported offsite.
- Client stated that no on-site screening should be conducted.
- AAA stated that they would be working on Saturday, December 8th.
- The client requested that Tighe & Bond revise the previous meeting notes to state that no semi-volatile organics were detected in the backfill materials and that metals detections are consistent with background concentrations.

On-site Waste Water

- AAA is currently "trucking" waste water using a 1,000-gallon vacuum truck and discharging into the storm sewer. Estimated one and a half tanks (18,000 gallons per tank) have been removed thus far. AAA expressed concern about remaining Baker Tanks freezing.

Truck Weighing and Manifests

- Tighe & Bond stated that none of the estimated weights provided on the manifest spreadsheets were based on use of MetroWaste scales. Instead, weights were based on estimates recorded by drivers on the manifests. The client requests that several trucks be measured onsite to compare with values from disposal facility.

Surveying and Fee Structure

- Client and Tighe & Bond asked AAA if they would provide written agreement with the use of surveying for fee structure. AAA responded that they have not seen how the surveyors have collected data on site and have not seen the actual data generated. Tighe & Bond stated the surveyor will be on-site next week and AAA can observe how they are collecting data. The surveyor is to provide volume calculations and methodology to the client, Tighe & Bond, and AAA by end of week December 14th, 2007.

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: 12/14/07

ATTENDEES: Leon Marineau-Cascades, Inc.; Wes Jones - AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Mike Martin – Tighe & Bond, Brian Conte – Tighe & Bond, Jim Olsen – Tighe & Bond; Jeff Meyers– MetroWaste, Inc.

Notice of Violation
- Notice of violation was issued by NYSDEC because they were not provided notice of work activities on Sunday and because air monitoring stations were not in operation during earth movement activities.
- AAA stated they would make sure they notified all prior to any work and that no work activities would be conducted if air monitoring stations were not in operation.

Completion of Activities
- AAA estimated that 50 percent of the site has been excavated.
- AAA estimated that 95 percent of the consolidation area has been capped.
- AAA estimated that consolidation will be filled by Tuesday December 18, 2007.
- 27 cells have been confirmed to be backfilled.
- Approximately 10 more cells have been sampled.

On-site Waste Water
- AAA is currently "trucking" waste water using a 1,000-gallon vacuum truck and discharging into the storm sewer. Buffalo Sewer has been on-site to view discharge. AAA estimates all tanks to be removed by December 21, 2007 – weather and conditions permitting.
- Wastewater in excavation remains and is required to be conveyed into stormsewer.

Truck Weighing and Manifests
- MetroWaste stated that they can not provide a certified waste ticket. However, they can provide truck weights for comparison to disposal facility.
- Tighe & Bond will attempt to have a minimum of five trucks weighed by Monday December 17th

Surveying and Fee Structure
- AAA has not been provided with Surveyors calculations or figures. AAA was satisfied with on-site measurements but requests to see calculations and figures.
- Surveyors will be on site Tuesday December 18th to survey excavation and determine final elevation for consolidation area.
- Tighe & Bond discussed adding excess soil to consolidation area to compensate for future settlement. NYSDEC stated that there position has been stated that would not be allowed.
- Tighe & Bond and client discussed leaving soil on site until the Spring. Soil would be used to bring settled consolidation area back to six foot maximum elevation. Excess soil would be trucked off-site.
- Client to provide deviation of scope to NYSDEC in writing.
- Tighe & Bond will coordinate with AAA to provide client with one corrected database of manifests.

Updated Schedule
- AAA will continue to work Saturday December 15th.
- No offsite disposal of soils will or has occurred on the weekends.
- AAA would like to work the week of Christmas and New Years. Tighe & Bond will try to staff.

- Once consolidation area is completed, remainder of the material to be disposed of offsite.

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: 12/21/07

ATTENDEES: Leon Marineau - Cascades, Inc.; Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Mike Martin – Tighe & Bond, Brian Conte – Tighe & Bond, Jim Olsen – Tighe & Bond; Todd Ostrowski – Tighe & Bond Matt Forcucci - NYSDOH

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1. **Status of Letter to NYSDEC Regarding Deviations from Scope of Work**
    a. NYSDEC is prepared to approve Items #1 and #3
    b. NYSDEC is not prepared to approve Item #2
    c. The client will contact Marty Dosteler of NYSDEC to discuss and determine which elements of Item #2 are not sanctioned.
2. **Sub-grid Excavation**
    a. Percent Excavated 0 Approximately
    b. Capacity of Consolidation Area – Almost completed with final grading activities to be completed by the following week.
    c. Confirmation Sampling
        i. 52 samples have currently been collected for confirmation.
3. **Baker Tanks – Wastewater Containment**
    a. Status of Tanks On Site
        i. All of the Baker tanks have been removed.
    b. Removal of Wastewater within Excavation Area
        i. Lake Depew is being pump through bag filters directly into sewer.
        ii. Approximately, 8 days of pumping will be required to remove all on-site water.
4. **Decontamination of Heavy Machinery**
    a. **Creation of Decontamination Pad**
        i. AAA needs to create decontamination pad to clean "YUK" and other large machines to be removed off site.
    b. **NYSDEC Oversight**
        i. NYSDEC should be notified when "YUK" and other large machines are cleaned and ready for removal from "hot" zone. However, NYSDEC does not need to be present on site.
5. **Soil and Backfill Staging Area**
    a. Elimination of soil to Walden Avenue

i. Loading area needs to be "freshened" up with new stone and Walden Avenue needs to be swept periodically to remove soil build up.

b. Traffic Control Issues

i. AAA needs to have personal available to control traffic during removal of contaminated soil and backfilling of clean material.

6. Surveying

a. Status of Volume Calculations

i. Tighe & Bond and AAA spoke with Nussbaumer and Clarke today and they will have calculations completed by January 2nd. In addition to the volume calculations, Nussbaumer and Clark will have current cap dimensions compared to as built drawings.

7. Determining Truck Weights using On-site scales

a. 10 truck weights have been collected on-site and have been provided to AAA for comparison to disposal facilities.

8. Community Concerns

a. None known.

9. Next Meeting

a. Friday December 28th

Former NL Industries
Meeting Summary

FROM: Brian Conte, Tighe & Bond, Inc.

MEETING DATE: January 4 2008

ATTENDEES: Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Brian Conte – Tighe & Bond; Jim Olsen – Tighe & Bond; Todd Ostrowski – Tighe & Bond; Matt Forcucci – NYSDOH; Jeff Meyers – MetroWaste

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1. **Status of Letter to NYSDEC Regarding Deviations from Scope of Work**

   - The client needs to speak with Marty Doster, NYSDEC to clarify NYSDEC position on deviations from work scope. In particular, about NYSDEC position on height of consolidation area and leaving soils to be used in place of proposed sand layer.
   - NYSDEC requires more logistical information concerning the type and volume of soil required to replace sand layer
   - Tighe & Bond is in the process of determining volume of soil required and collecting and performing grain size analysis.
   - Tighe & Bond will provide data and additional specifics to NYSDEC prior to NYSDEC making final decision on sand/layer.

2. **Project Signage**

   - Tighe & Bond will provide design to AAA for them to create and post on site.
   - Sign will be posted as soon as possible.

3. **Sub-grid Excavation**

   a. Percent Excavated

      i. Approximately 40 cells need to be removed.

      ii. Berm separating Lake Depew has been removed

      iii. Lake Depew has been completed.

      iv. Site should average between 12-15 trucks per day.

   b. Capacity of Consolidation Area

      i. Completed. The cap has been graded but has not been winterized yet (see comment below).

   c. Confirmation Sampling

      i. Confirmation sampling of the area below "Lake Depew" was collected. AAA stated that the sample visually looked like it may not pass. The weather may warm this weekend and bring more rain. However, we will not know results of test (submitted last night)

4. **Winterization of Consolidation Area**

      i. Geotextile and sand bags are on site

      ii. The placing of the material on the cap is weather-dependent and may be postponed if weather warms – soils thaw.

iii. Not likely to place material on cap until following week.

5. Decontamination of Heavy Machinery

a. Some decontamination has already occurred. A station pad will need be created for larger equipment but not in the near future.

6. Surveying

a. Status of Volume Calculations

i. Nussbaumer and Clark has completed volume calculations of excavated soil that was placed on cap.

ii. Tighe & Bond has requested that Nussbaumer and Clark provide supporting documentation of how they collected samples.

b. Agreement from AAA on Use of Surveying for Fee Structure

i. AAA has been provided volume calculations and stated the volumes appeared correct. They will be provided supporting documentation from Nussbaumer and Clark.

7. Determining Truck Weights using On-site scales

a. AAA will provide recent manifests to Tighe & Bond for comparison to on-site weight measurements.

b. Tighe & Bond will complete spreadsheet for weight comparison.

8. Community Concerns

a. Linda Hammer expressed concern to Tom Derkovitz about height of cap and appearance of cap and trucks.

b. Additional conversations will be had with Linda Hammer and client about good neighbor efforts.

9. Updated Work Schedule

a. AAA stated that if all soils (minus soil around natural gas line) is removed and taken off site project could be completed by end of January. However, if material is required to be screened and stockpiled for use below cap, the process could last longer.

10. Next Meeting

a. Friday January 11, 2008 at 11 am

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: January 11 2008

ATTENDEES: Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Brian Conte – Tighe & Bond; Jim Olsen – Tighe & Bond; Mike Martin – Tighe & Bond; Matt Forcucci – NYSDOH; Laura Radice – Tighe & Bond

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1. **Status of Letter to NYSDEC Regarding Deviations from Scope of Work**

   - Tighe & Bond is in the process of providing sieve analysis to NYSDEC from SJB. Visual inspection of fill shows lots of rubble, a screener needs to be brought on-site.
   - Tighe & Bond will provide data and additional specifics to NYSDEC prior to NYSDEC making final decision on sand/layer.

2. **Project Signage**

   - Tighe & Bond has provided design to AAA for them to create and post on site.
   - Sign will be posted Friday January 18.

3. **Sub-grid Excavation**

   a. Percent Excavated

      i. Approximately 20 cells need to be removed, in addition to the cells under the stockpile.

      ii. Excavation has occurred up to gas line in cells WA 5, 6 and 7.

      iii. Landfill can only take 10-12 trucks per day, additionally there is trouble getting trucks.

      iv. Backfilling not expected to occur until w/o 1/14.

      v. Plan to keep excavation w/o 1/14 to replenish stockpile. Anticipated removal of stockpile 1/15 or 1/16.

      vi. Dewatering is an everyday process, but excavation has commenced again. AAA wants to put sump in NW corner of excavation for the spring.

   b. Confirmation Sampling

      i. Samples from B-8, 9 and 10 failed and needed to be re-excavated and re-sampled. Results are expected 1-14-08

      ii. WA-1, 2, 3 and 4 bottom and sidewall samples have been collected results are expected 1-14-08.

4. **Winterization of Consolidation Area**

   a. No change in status

5. **Decontamination of Heavy Machinery**

   a. No change in status

6. **Surveying**

   a. Status of Volume Calculations

i. Nussbaumer and Clark are to be contacted again and asked to survey existing open cells to obtain bottom elevations.

ii. Tighe & Bond has requested that Nussbaumer and Clark provide supporting documentation of how they collected samples.

7. Community Concerns

a. Call from Depew Public Works re: equipment falling into sewer.

8. Updated Work Schedule

a. AAA approximated 3 weeks left – end date 2/1/08

9. Next Meeting

a. Friday January 18, 2008 at 11 am

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: January 18 2008

ATTENDEES: Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Bill Murray - NYSDEC; Kevin Glaser – NYSDEC; Jim Olsen – Tighe & Bond; Mike Martin – Tighe & Bond; Matt Forcucci – NYSDOH; Laura Radice – Tighe & Bond; Tom Derkovitz – Metro Waste

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1. **Status of Letter to NYSDEC Regarding Deviations from Scope of Work**
   - AAA and T&B are discussing and will have proposal to NYSDEC.
2. **Project Signage**
   - Sign will be posted by Friday January 25.
3. **Sub-grid Excavation**
   a. Percent Excavated
      i. Approximately 22 cells need to be removed and 17.5 have to be sampled.
      ii. Excavation has occurred up to gas line in cells WA 5, 6 and 7. The remaining half cells at this location will be considered part of WB-5, WB-6 and WB-7
      iii. Row A will be narrower than original 30x30. Plastic liner will be used to separate this area from the backfilled area.
      iv. Backfilling expected to begin w/o 1/21.
      v. All of west side is dewatered. 1.5 feet of water left at far end of site, so pumping will continue into next week.
   b. Confirmation Sampling
      i. WB-E 5-7 (12 samples) were submitted and are expected to have results by Monday
4. **Winterization of Consolidation Area**
   a. The cell is expected to be covered when it freezes (w/o 1/21?)
5. **Decontamination of Heavy Machinery**
   a. No change in status
6. **Surveying**
   a. Status of Volume Calculations
      i. Nussbaumer and Clark were contacted again and asked to survey existing open cells to obtain bottom elevations.
7. **Community Concerns**
   a. None
8. **Updated Work Schedule**
   a. AAA approximated 3 weeks left – end date w/o 2/4/2008
   b. AAA looking into leaving the trailer at site until spring rather than removing it

9. Next Meeting

a. Friday January 25, 2008 at 11 am

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: January 25, 2008

ATTENDEES: Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Bill Murray - NYSDEC; Jim Olsen – Tighe & Bond; Mike Martin – Tighe & Bond; Matt Forcucci – NYSDOH; Laura Radice – Tighe & Bond; Leon Marineau – Cascades Canada

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1. **Status of Letter to NYSDEC Regarding Deviations from Scope of Work**
   - DEC to issue revised position on sand layer to Leon
2. **Project Signage**
   - Sign en-route to site during meeting, posted after meeting.
3. **Sub-grid Excavation**
   a. Percent Excavated
      i. Approximately 10 cells need to be removed and 20 have to be sampled
      ii. Backfilling expected to be complete by close of business 1/25/08 except for Lake Depew ~12 cells
   b. Confirmation Sampling
      i. Sidewall sampling done at a rate of 1 sample per 60 feet of sidewall
4. **Winterization of Consolidation Area**
   a. The cell is 50 % winterized, need 1200 sand bags
5. **Decontamination of Heavy Machinery**
   a. Excavator decon'd 1/25/08
6. **Walden Ave. Mud issue**
   a. Road sweeping is on-going
7. **Surveying**
   a. Status of Volume Calculations
      i. Nussbaumer and Clark to be on-site w/o 1/28/08 to survey backfill area
8. **Community Concerns**
   a. None
9. **Updated Work Schedule**
   a. AAA approximated 3 weeks left – end date w/o 2/4/2008
10. **Next Meeting**
    a. Friday February 1, 2008 at 11 am

Former NL Industries

ATTENDEES: Wes Jones- AAA Environmental
Mike Pickering – AAA Environmental
Bill Murray – NYSDEC
Jim Olsen – Tighe & Bond
Mike Martin – Tighe & Bond
Matt Forcucci – NYSDEH
Laura Radice – Tighe & Bond

FROM: Laura Radice

DATE: February 1, 2008

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1. Status of letter to NYSDEC Regarding Deviations from Scope of Work

- Request to leave soils along gas line in place approved
- Request to replace 6 in sand layer with contaminated soil rejected
- Request to leave unexcavated soils on–site to counteract cal settling in spring rejected

2. Project Signage/Notification

- Sign in place
- DEC would like to be notified when work day concludes early

3. Sub-grid excavation

a) Percent Excavated

I. Three intact partial cells remain besides gas line area and driveway

II. All is backfilled except for Lake Depew and west end

III. Lake Depew use construction fencing or wait until freezing?

b) Confirmation Sampling

I. 1 sidewall and 5 bottom samples remain

4. Winterization of Consolidation Area

a) Winterization is done by end of meeting

b) Repairs need to be made to liner due to weather damages

I. Using #2 stone in addition to sand

5. Waiden Ave. Mud Issue

a) Road sweeping took place Mon & Tuesday

b) Reconfigured site to minimize drag out, and no problems since

6. Surveying

a) Status of Volume Calculation

I. Nussbaumer and Clark to be on site w/o 2/4

7. Community Concerns

a) Complaint from resident Monday night

8. Updated Work Schedule

a) Approximated end date w/o 2/8/2008

9. Next Meeting

a) Friday February 8, 2008 at 11 am

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: February 8, 2008

ATTENDEES: Wes Jones - AAA Environmental; Mike Pickering – AAA Environmental; Jim Olsen – Tighe & Bond; Kevin Glaser NYSDEC; Matt Forcucci – NYSDOH; Laura Radice – Tighe & Bond

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1. **Sub-grid Excavation**
    a. Percent Excavated
        i. All excavated, except gas line partial cells
    b. Confirmation Sampling
        i. 1 sidewall and 6 bottom samples submitted
    c. Backfill
        i. Goal is to have entire site backfilled by w/e 2/15/08
        ii. Dynamic compaction to begin w/o 2/11/08
        iii. Lake Depew level down 6 in., pumps switched from east end
2. **Winterization of Consolidation Area**
    a. Repairs need to be made to liner due to weather damages
    b. DEP requests weekly inspections of cap/site, with ability to pump water if needed. Inspecting party TBD.
3. **Walden Ave. Mud issue**
    a. DEC commented that when backfilling begins again, sweeper must be on-site to clean continuously.
4. **Surveying**
    a. Status of Volume Calculations
        i. Nussbaumer and Clark to be on-site w/o 2/11
5. **Community Concerns**
    a. None
6. **Updated Work Schedule**
    a. T&B off-site 2/8/08
    b. AAA estimates off-site 2/15/08
    c. Work will commence again in April – weather dependent
7. **Next Meeting**
    a. Friday February 15, 2008 at 11 am

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: February 19, 2008

ATTENDEES: Mike Pickering – AAA Environmental; Jim Olsen – Tighe & Bond; Kevin Glaser NYSDEC; Bill Murray – NYSDEC; Laura Radice – Tighe & Bond

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1. **Sub-grid Excavation**
    a. Backfill
        i. "Lake Depew" backfilled, one area remains ~800 tons of backfill needed.
        ii. Bill Murray interjects about repeat violation of drag-out from site (not a community concern), manpower issue at end of day Friday 2-15. Street sweeper needs to continuously be available to sweep dirt. AAA will have 4-5 men on –site for remainder of week before de-mobilization
2. **Winterization of Consolidation Area**
    a. Repairs need to be made to liner due to weather damages; repairs to be made through week
    b. DEC requests to be given 24 hour notice prior to making repairs to liner so they can observe
    c. T&B to create inspection checklist for temporary cover
3. **Surveying**
    a. to be scheduled
4. **Community Concerns**
    a. None
5. **Updated Work Schedule**
    a. AAA estimates off-site early w/o 2/25
    b. Work will commence again in April – weather dependent
6. **Next Meeting**
    a. TBD

Former NL Industries
Meeting Summary

FROM: Laura Radice, Tighe & Bond, Inc.

MEETING DATE: February 29, 2008

ATTENDEES: Wes Jones – AAA Environmental; Jim Olsen – Tighe & Bond; Kevin Glaser NYSDEC; Bill Murray – NYSDEC; Laura Radice – Tighe & Bond, Jeff Meyers – Metro Waste, Tom Derkovitz – Metro Waste, Matt Forcucci - NYSDOH

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1. **Sub-grid Excavation**
    a. Backfill
        i. Site is locked up. AAA demobilized on Friday 2-22.
        ii. Backfilling is completed, as is dewatering
2. **Winterization of Consolidation Area**
    a. Repairs need to be made to liner due to weather damages; repairs will be made once snow melt allows access
    b. DEC requests to be given 24 hour notice prior to making repairs to liner so they can observe
    c. T&B to create inspection checklist/SOP for temporary cover, DEC would like to review
3. **Compaction of Containment Cell**
    a. Will occur in Spring. DEC needs to review and grant approval for plan.
4. **Surveying**
    a. to be scheduled
5. **Community Concerns**
    a. None
6. **Updated Work Schedule**
    a. AAA will re-mobilize for compaction when work can begin again - weather dependent (April?)
7. **Next Meeting**
    a. When AAA has remobilized, weekly meetings will begin

Memorandum

From: Bill Murray
To: Project File
Date: March 7, 2008
Re: Meeting Minutes, Former N.L. Industries Site (BCP Site#: C915200)

Meeting Minutes

Subject: Former N.L. Industries Site
Depew (Village), Erie County
Date/Time: March 6, 2008
Place: New York State Department of Environmental Conservation – Region 9 HQ
270 Michigan Ave., Buffalo, NY, Room 304

Marty Doster, Jim Charles, Bill Murray, Kevin Glaser – NYSDEC
Matt Forcucci – NYS DOH
Craig Slater - Harter, Secrest & Emery

Via telephone:

Leon Marineau - Casdades Canada
Jim Olsen, Laura Radice – Tighe & Bond

Purpose: See Project Meeting Agenda (Attached)

1. DER highlighted the violations of the work plan to date which include:
   -fugitive soil onto public property (numerous occasions),
   -failure to have on-site representation during work activities,
   -lack of concern and response to the potential overflow of construction water,
   -failure to adhere to a schedule.

2. DER noted that these violations are a "breach" of contract and grounds for termination of the BCA.

3. C. Slater (CS) stated the violations were of a minor consequence and would be considered work practice violations, not substantial non-compliance with the BCA.

4. T&B noted that they were not on-site due to cost considerations by Norampac. T&B stated they had asked if it was ok to not be onsite. DER stated that they are required to be onsite during work activities, it is not appropriate to ask DEC if they can be absent from the site.

5. CS asked Jim Charles (JC) if DEC is considering termination. JC stated it was not, at the moment.

6. DER noted that the cleanup of the western parcel, as denoted in appended figures to the BCA and Decision Document, was incomplete and required removal to the street curb. CS disagreed and stated that the site was defined by a survey. It was noted that the survey was not submitted to the DEC. T&B indicated that they would not submit the survey until the FER at the end of the project. DER stated the intent of the project was to complete a cleanup of the western parcel to allow unrestricted use (as defined by per 375 regs). This could not happen if lead values as high as 38,000ppm was left behind. CS argued that the remaining waste was "offsite" and not part of the BCA.

7. CS asked if paving and placement of an EE on the offsite parcel would be acceptable to DEC. DEC had no comment on the proposal. It was debated whether the Town/State would allow an EE leaving behind potentially hazardous waste. It was further noted that EPA had cleaned up property on the north side of Walden to the curb.

8. T&B acknowledged that a survey was completed. CS stated they would send the survey to DEC and "paint the lines" on the property boundary. Norampac stated that they would excavate, if necessary under the existing fence but would only hand excavate around the fence poles. DEC reserved judgment but stated the fence may have to come down.

9. DOH requested a demarcation layer (vertical) to be placed. DEC contends it was not done. T&B to check. T&B stated anything other than a snow fence would be expensive.

10. Re: the SMP: T&B requested an extension to end of April, 2008. T&B noted that if the SMP applied to offsite then it would take longer. DEC stated it would consider the request.

11. Norampac wanted DEC approval of the alternative compaction proposal. DEC would review but noted that it does not approve of handling (re-excavating) contaminated soils and those soils should be taken off-site.

Meeting Minutes from Onsite Meeting
May 8, 2008

Former N.L. Industries Facility
3241 Walden Avenue
Depew, New York

May 9, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, Harter Secrest & Emery LLP;
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Jim Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
Marty Doster, NYSDEC
William Murray NYSDEC
Matthew Forcucci, NYSDOH

1. Winter Control Measures

Inspections were completed on a weekly basis by Tom Derkowitz
Reports were sent to Tighe & Bond and shared with NYSDEC
NYSDEC personnel they made inspections during the winter
NYSDEC indicated that there were no significant issues through the winter and repairs were made in a timely manner

2. Parties Involved and Responsibilities

AAA Environmental
Tighe & Bond
New Landscaping Company

NYSDEC inquired about plan to meet with public regarding landscaping.
Norampac indicated that Metro Waste had meet with the mayor and town council.
Norampac indicated that the town is interested in having a green space
NYSDEC indicated that they wanted to see re-vegetation plan.

3. Cap Completion

Norampac lays out new plan for modification of footprint
NYSDEC requests submission of written proposal for modification
NYSDEC requested that the following items were included in the modification request:

- Parking plan (number of trucks, operation
- Schedule
- Landscaping plan (will be submitted under separate cover)
- Stormwater capture plan
- Plantings

NYSDEC indicated that they would need 10 days to review and provide comment

NYSDEC feels that this is a significant change
NYSDEC stated that this was a "pretty radical concept"
NYSDEC indicates that they are "unsure if they can approve" this request
NYSDEC reiterated their request for remediation of strip of land between road and site
NYSDEC stated the goal of the Brownfield's program is remediation and reuse
NYSDEC stated that there was no functional difference between the way the property was developed prior to remedial activities, to the way it was proposed
NYSDEC indicated that they were "shocked by this iteration"
Biggest concern is height of material in containment cell
NYSDEC reiterated position on double handling of waste materials

4. Rail Road Track Paving
   Norampac states that paving will go forward as planned

5. Remediation of Natural Gas Line
   Norampac states that remediation of soils adjacent to natural gas line will move forward as planned
   Norampac indicated that they may reuse soils adjacent to natural gas line to replace clayey materials currently in the containment cell

6. Buried Cylinders
   Norampac indicates that cylinders have been identified thanks to help of previous environmental consultant

7. Visual Marker at Limits of Remediation
   Norampac indicates that the will install visual marker at excavation limits (ie property boundary)
   NYSDEC indicates that they are not convinced that excavation has been completed to the property boundary
   Tighe & Bond inquires as to what could be used to prove that the work has been completed as agreed to.
   NYSDEC indicates that the excavation area and property boundary need to be resurveyed for confirmation.
   NYSDEC indicates that an ACTA survey needed to be completed

8. Schedule
   AAA asked to move forward with backfilling remediated area.
   NYSDEC requested 5 days notice for all onsite work, especially if work was going to be completed on weekends
   AAA Anticipated that it would take 4-6 weeks to complete work on containment cell alone

9. Vegetative Cover
10. Weekly Meetings by Thursdays

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
May 16, 2008

Former N.L. Industries Facility
3241 Walden Avenue
Depew, New York

May 19, 2008

Attendees:

Leon Marineau, Norampac Industries;
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Jim Olsen, Tighe & Bond;
Greg Beach, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
Kevin Glaser, NYSDEC
William Murray NYSDEC
Matthew Forcucci, NYSDOH

1. Cap Completion

Tighe & Bond / Norampac indicated that we would try to get letter out on Friday that will address minor modifications to cap design.
NYSDEC requesting planting plans for new proposed vegetation (at meeting on 5/7/8 Norampac indicated it would be submitted under separate cover
NYSDEC indicated that this was a meeting to discuss what was being done at the site and what was planned for the site the following week.
NYSDEC inquired as to what we are doing onsite
Tighe& Bond / AAA indicated that we were working on grading of the material to assist with drying.
Tighe & Bond inquired as to how the NYSDEC would like us to grade the materials.
NYSDEC indicated that the Agency was not here to direct Tighe & Bond / AAA on how to do their work and/or how the field crews should do their work
Tighe & Bond indicated that there is nothing in the documents approved to date for the site that indicates how to move the soils and that we are maintaining air monitoring activities in accordance with the CAMP
NYSDEC responding by indicated that they wanted it on the record that the activities being conducted for grading / to assist with drying are questionable and not approved by NYSDEC and are being noted.

2. Remediation of Natural Gas Line

No work completed to date, pending final grading plan for cell and backfill area
Intent is to being excavation as outlined and approved previously the week of May 27, 2008

3. Buried Cylinders

Three drums of cylinders were drummed on between Tuesday and Wednesday (5/13 & 5/14)
Remainder of cylinders will be drummed for removal offsite on Wednesday 5/21
Prior to going forward with disposal activities, NYSDEC discussed the following concerns

1. During cylinder removal activities on Tuesday, NYSDEC was onsite, cylinders were off-gassing and becoming hot. NYSDEC requested that AAA stop and cover over cylinders
2. On Wednesday AAA removed cylinders from the excavation while wearing respirator and tyvek suit with double gloves for hand protection and drummed until they ran out of space
3. NYSDEC indicated that there were significant concerns associated with the cylinders that needed to be addressed including the following:
   - NYSDEC needs to be provided the waste profiling, waste characterization, and all analytical results prior to the drums leaving site
   - MSDS
   - Evaluation of hazards for protection of workers and public
4. NYSDEC extremely concerned about chemical exposure during transport and removal activities
5. NYSDEC believes that cylinders are no longer stable and concerned about containers being used to store cylinders prior to transport

NYSDEC requested to be notified when last cylinder is removed from ground for final inspection
Norampac stated that sampling occurred in 2005 and that cylinders tested non-Hazardous
NYSDEC stated that they do not have the results from the 2005 sampling
AAA will complete hazard analysis when provided sampling results from Norampac and prior to the handling of any additional cylinders
NYSDOH asked to be cc'd on results requested by NYSDEC

4. Additional Property Line Excavation

Property line has been staked and resurveyed, map has been provided but not reviewed for accuracy
Limited corrections will need to be made
Need to evaluate additional soil sampling requirements
Tighe & Bond looking for guidance from NYSDEC

5. Visual Marker Limits

Will be completed during excavation activities

6. Schedule

We will continue to work five days weeks with the exceptions of holidays until the project is complete

Determination of Weekend work will be made on a weekly basis
Week of 5/19:

- Continued regarding
- Dewatering
- Excavation of Boundary Limits
- Beginning clean fill backfill
- Remove remainder of mercaptan cylinders pending hazard analysis
- Staking of topography

7. Fabric Cover Disposal

Fabric samples were collected in accordance with laboratory requirements per the request of AAA and the disposal facility
NYSDEC requests that sample results be shared prior to cover leaving site

8. Dewatering

Dewatering began at the site on Tuesday 5/13 in accordance with the sanitary sewer discharge permit

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
May 22, 2008

Former N.L. Industries Facility
3241 Walden Avenue
Depew, New York

May 27, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, HSE
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Jeff Meyer, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Jim Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
William Murray NYSDEC;

NYSDEC take a moment to make all parties aware of conversations between Tighe & Bond the Agency and between Attorney Slater and the Agency regarding the status of the project and the NYSDEC concerns specifically

- The length of the project
- Commitments that have been made for submittals and have not occurred
- Frustrations regarding waiting for information.

Attorney Slater takes a moment to discuss the turnaround time of submittals modifications and other documentation requested to date.

Tighe & Bond indicates that copies of all requested information, with the exception of the disposal facilities approval letter for the mercaptan cylinders, are present at the meeting.

NYSDEC requests copies of the drawings are sent to them for review. Tighe & Bond coordinate delivery during call.

NYSDEC requests the plantings plan be submitted, as requested in the May 7, 2008 meeting.

Attorney Slater indicates that the planting plan will be submitted when the construction of the containment cell is complete and we can tell exactly what we have to work with and we were withdrawing the former request for approval of the planting plan.

1. Cap Completion

Attorney Slater briefly discussed the cap design for the containment cell. He stated that no modifications of the cap would be sought or required and that the containment cell would be constructed fully consistent with the RAP and Decision Document.

2. Dewatering

Dewatering continues in accordance with the sanitary sewer discharge permit – no problems at this time

3. Buried Cylinders

Tighe & Bond and AAA personnel discussed the development of the Job Safety Analysis and CAMP to address NYSDEC/ NYSDOH concerns regarding removal, storage and transportation of mercaptan containing cylinders
Tighe & Bond indicated that copies of all requested materials to date with the exception of facility approval letter were available onsite at the meeting, however NYSDEC personnel were not physically in attendance.
NYSDEC personnel indicated that they would stop by site to collect available information
NYSDEC personnel indicated that they did not need to see the facilities approval letter

4. Fabric Cover Disposal

Tighe & Bond discussed status of laboratory results
AAA indicated that sample results and paperwork had been submitted and that it is a two week process for approvals

5. Schedule

Attorney Slater indicates that work schedule will take between 6 and 8 weeks to complete after NYSDEC approvals are in place
We will continue to work five days weeks with the exceptions of holidays until the project is complete
Determination of Weekend work will be made on a weekly basis – NYSDEC requested notification no later than Wednesday morning the week of the work
Week of 5/27:

- Continued grading
- Dewatering
- Excavation of Boundary Limits
- Beginning clean fill backfill

6. Visual Marker Limits

Will be completed during excavation activities to property limits

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Weekly Meeting
May 30, 2008

Former N.L. Industries Facility
3241 Walden Avenue
Depew, New York

June 6, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, HSE
Mike Pickering, AAA Environmental;
Wes Jones, AAA Environmental;
Jim Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
Greg Beach, Tighe & Bond;
William Murray NYSDEC;
Matt Forcucci, NYSDOH

1. Cap Completion

Revised drawings have been submitted to NYSDEC
AAA believes it will take ~2 weeks for cap to dry out.
Discussion regarding the fact that movement is still present in the containment cell soils.
No sinking of heavy equipment observed
AAA would like to begin grading to meet design week of June 2
CAS inquires as to when we will have Geotech onsite again
T&B indicates that they have asked GeoTech to come out late next week, will follow up to see if he is still available.
NYSDEC requests a second technical meeting with Tighe & Bond early week of 6/2 to discuss figures.
CAS indicates that he would like to see something in writing regarding the approval to move forward on the cap by Tuesday or Wednesday of the following week, after technical meeting
CAS states that we are moving forward with grading in accordance with RAP
NYSDEC states that they understand what we are doing and the purpose of it.
AAA states that they are looking for approval to move forward with cap completion.
CAS states that we need to keep with scheduled completion date of August.
AAA/T&B state that we believe that we are on track to finish grading for an August finish date
AAA/T&B state that grading is occurring so that groundwater sheds off of it.
Haybales and silt fence will capture all runoff during rain storms so that there are no offsite impacts.

2. Dewatering

Dewatering will generally wrap up this week with exception of rain events

Pumping of south side will be completed sometime early next week
No other significant issues at this time

3. Buried Cylinders
   MAA states that NYSDEC/NYSDOH requested documentation has been delivered with the exception of the confirmation letter.
   AAA indicates that the letter is still pending
   T&B states that we need at least 3 days notice to have all equipment shipped to site
   AAA describes packaging techniques; schedule to finish, completion of SE corner of containment cell is slowed until cylinders are removed.
   AAA states that we can work within 5 feet of area.
   CAS concerned about smell/odor, wants to make sure work is done while children are at school and workers are at work
   AAA indicates that there will be at least 1 to 2 days for packaging.

4. Fabric Cover Disposal
   AAA states that they are still waiting for information from non-hazardous facility.
   NYSDEC questions whether or not the cover is non hazardous
   AAA states that they are waiting for information from broker to see how it can be disposed of
   Some discussion regarding ambiguity of laboratory report
   MAA states that the samples were run as TCLP lead, not total
   CAS indicates if the results are hazardous, the samples must go out as hazardous regardless.
   CAS indicates that there are approximately 40 yards of cover sitting onsite, wants a live haul and to get it offsite as soon as possible.
   WS indicates that he will get rolloffs for hopefully next week.

5. Schedule
   AAA states that excavation of natural gas line will be completed week of 16th – utility locates have been completed.
   Continue to grade coils in containment cell
   Set up soil staging area adjacent to natural gas line
   Begin over-excavation activities starting 6/2 starting at the south corner and then moving west
   Continue to grade clean side of site
   No more clean backfill is required in required for undeveloped side of site
   Height of clean backfill previously discussed may increase slightly
   Fabric disposal
   Mercaptan Cylinders will be removed week of June 9, 2008

6. Visual Marker Limits
   North side has been installed
   South and western sides will be installed during over-excavation activities.

7. SE/SW Corner Over-excavation Activities

Discussion of standing water present in southeast corner. Groundwater has always leached into this area.
T&B based on leaching groundwater, we would like to move forward as quickly as possible in the SE corner to limit the groundwater infiltration.
NYSDEC inquires about sampling plan
T&B states that it is our intent to move forward with sampling plan as detailed in previous e-mail with no changes
NYSDEC states that they would like to have samples collected every 60 feet
T&B state that we do not believe additional sampling is not warranted as the previous bottom samples were below regulatory limits.
NYSDEC asks that we can meet onsite to discuss.
T&B agrees to meet to discuss.

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
June 6, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

June 7, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, HSE
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Jeff Meyer, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Jim Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
William Murray, NYSDEC;
Kevin Glaser, NYSDEC;
Matt Forcucci, NYSDOH

CAS requests a change in second technical meeting time to coincide with first weekly meeting.
NYSDEC states that Marty Doster is unavailable to meet until 1230
CAS indicates that he will call in for second meeting as he is unavailable to be present.

1. Cap Completion

AAA discusses ongoing project activity
T&B discusses geotechnical evaluation of containment cell conducted on 6/5/8
Norampac adds that the soils have dried substantially since the first meeting and that they appears to have come far since the first meeting and that we will move forward with original design except for the drainage issues and that the ramp will remain along entire eastern side of containment cell
CAS indicates that we need to step back and calculate how long we can work soils from anticipated completion date.
T&B indicates that we can work soils until 3rd week in June.
AAA states that they would like to begin regarding week of June 23rd with T&B's approvals

2. Buried Cylinders – Schedule update

Norampac stated that the goal is not to put cylinders in landfill. They have found a scrap metal facility in Detroit that will take the cylinders.
CAS inquired as to how they would be transported, did not want to do if activity would take to long.
AAA was unable to determine if facility in Detroit could take hazardous waste
CAS indicated that hazardous waste cannot be recycled

AAA sent MSDS and laboratory data to Detroit, however he had not heard back from facility yet.
AAA stated that cylinders have already be profiled/classified and should we go forward.
CAS indicates that we not currently have an understanding of the facility in Detroit & DOT requirements
Norampac wants to reclassify if possible to non-hazardous
CAS indicates that he does not know the CTDOT hazardous transporter requirement and to call a transporter.
AAA indicates that the insulation is the requirement for transportation and htat the disposal facility is the one that has identified it as hazardous
CAS wants issue resolved in 7 days
Norampac wasnts drums offsite as soon as possible
AAA indicated that he e-mail facility
Norampac discusses how he came upon facility that would recycle cylinders and that they cylinders will be shredded. T&B is requested to contact broker and evaluate as to how he made the hazardous determination (Lauren @ Protek)
Norampac/CAS state id issue can not be resolve quickly, cylinders will go to landfill.
Norampac requested information as to how the cylinders will be processed in foam for shipping
AAA stated that the foam asks as an insulator and that the cylinders will need to be removed from the drums/ground and placed into 5-gallon buckets with alternating foam layers. Cylinders will be transported in buckets, not drums.
T&B stated that the will complete all air monitoring activities in accordance with modification to CAMP which had been submitted to all parties.

3. Fabric Cover Disposal – Schedule Update

AAA states that 2-30 yard rolloffs to containerize cover will be delivered and the covers will be removed from the site and taken to a facility in Canada. Attempted to utilize local disposal facility however disposal requirements would have constituted extensive additional labor.

4. South/West Wall Over-Excavation & Soil Sampling Activities

T&B discusses status of placement overexcavation activities, installation of demarcation fence and laboratory analytical results.

5. Surveyor Activities

T&B stated that surveyor was onsite that day to tag property limits and top of cap.
Additional settling was observed when comparing numbers
MetroWaste requested updated drawings
All agreed to have surveyors back out week of June 23

6. Scheduled Activities for Week of 5/9

Continue to dry soils

Excavation of natural gas line to be completed late week of 6/9. Work to take approximately one week to complete.
Compaction samples to be collected
Sampling of top soil to be completed
Continue to grade western end of site

7. Other items
   Dust Control
      NYSDEC requested that we have a water truck onsite
   House Keeping
      CAS requested a street sweeper, contingency plan for cleaning trucks
   Sewer Manway
      MetroWaste requests that the wood cover over the sewer manway be replaced to be protective of human health

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
June 13, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

June 14, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, HSE
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
William Murray, NYSDEC;
Kevin Glaser, NYSDEC;
Matt Forcucci, NYSDOH

1. Cap Completion

AAA states that grading continues
T&B states that all requested changes to drawing have been made, currently in PE review.
Norampac requests that T&B ensures that all items requested in June 12 letter from NYSDEC be addressed in revised drawings
CAS/T&B state that geotextile has been removed from revised drawings due to requirements by geotextile/GCL manufacturers and that geotextile has been replace with the originally specified 6" sand lens.
NYSDEC states that they want to make sure that drawings are resubmitted due to the additional changes discussed at the June 6 meeting, specifically retention/detention basin.
Revised drawings will be submitted with letter and will be submitted by the June 25, 2008 date specified it the June 12 letter.

2. Buried Cylinders – Schedule update

AAA states that recycler declined to accept cylinders and that we will move forward with original plan disposal methodology. Material has been profiled and accepted. Packaging is scheduled to take place beginning on June 17 and should take 2 days. Representatives from Model city will be onsite on Tuesday 6/17 at 900. Representatives from Protek will be onsite on Thursday 6/19 for shipping
T&B states that air samples/monitoring will be completed in accordance with CAMP modifications and JSA.

3. Fabric Cover Disposal – Schedule Update

AAA states that profiles have been submitted to disposal facility. Processing is anticipated to take 4 weeks. Rolloffs are scheduled for delivery to site next week to allow for regarding. Rolloffs will be stored in the former railway area.

4. Natural Gas Line – Schedule Update

AAA will excavate and expose the gas main on July 7th and 8th. We also excavate a trench adjacent and parallel to the existing main 1' deep into the clay layer. No National Fuel site supervision is required for this work.
On July 9th a National Fuel subcontractor will be on-site to disconnect and relocate the gas main into the parallel trench. They will us the sand we provided for bedding the pipe. He indicated this will take one day to complete.
AAA will complete remaining excavation and backfill.

5. Surveyor Activities

Surveyor onsite 6/12 and set grade stakes on cap
AAA requests that Mike P be onsite when surveyor returns
Surveyor scheduled to be onsite week of 6/19
T&B requests that surveyor not be onsite during the mercaptan cylinder excavation activities due to hazard issues

6. Scheduled Activities for Week of 6/16

See information above
Also telephone pole tie down will be installed

7. Other items

Compaction Testing

CAS states that proctor testing decision needs to be made by HSE
Norampac states that it is acceptable to collect additional proctors
Discussion whether or not to delay grading and field compacting pending reception of Geotechnical Proctor testing results
T&B states that they cannot/will not collect additional proctor samples until contractual issues with Geotechnical firm

Revised Schedule

AAA indicates that it has been submitted to all other than NYSDEC
HSE asks that it be sent to him,
NYSDEC requests that they be cc'd and that it be available onsite

Laboratory Analytical Results

NYSDEC requests to be cc'd on all laboratory analytical results
T&B indicates that they had not been providing pending approvals of HSE
HSE approves submittal of results to NYSDEC

Air Monitoring Equipment

NYSDEC states that all air monitoring equipment must be set up and operating properly at all times, especially important during next weeks mercaptan cylinder removal activities.
T&B states that all manuals will be reviewed this weekend and communicates issues with one of the air monitoring equipment and how the issues will be resolved prior to Monday.

Clean fill Sampling Requirements

NYSDEC questioned the sand for the natural gas line being brought to the site prior to sampling being completed.
NYSDEC reiterated that all clean fill brought on site needs to be sampled and the lab data must be submitted and approved prior to materials being brought onto the site
T&B stated that sampling was going to be completed ASAP.
AAA questioned if fill material on containment cell needed to be analyzed
NYSDEC indicated that they would get back to team.

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
June 20, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

June 26, 2008

Attendees:

Leon Marineau, Norampac Industries;
Tom Derkowitz, Metro Waste Paper Recovery US, Inc.;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Jim Olsen, Tighe & Bond;
William Murray, NYSDEC;
Kevin Glaser, NYSDEC;

1. Cap Completion

AAA states that weather has been wet, we are grading as weather permits and playing it day by day. Most of this week's work associated with the cap has been puddle diversion. No grading this week.
NYSDEC asks if there is anything prohibiting us from finishing on time
AAA states only weather
NYSDEC asks Norampac for information in response to June 12, 2008 NYSDEC letter.
Norampac states that HSE will prepare response documents to NYSDEC and that he does not want to speak for HSE as to when it will be completed. Norampac states that they attempted to contact HSE, but they were not available for discussion the morning of the meeting.
NYSDEC states that they are only asking as they have not had the opportunity to review the requested changes.
Norampac states that all of the answers to their questions will be included in the letter response from HSE, but to be perfectly clear there are only limited modifications from the original drawings
Norampac states that we will need to start work shortly and that there have been limited changes
NYSDEC states that the completion of activities are not approved and this could impact work expected for next weeks

2. Buried Cylinders – Schedule update

DONE!!!

AAA states that All cylinders have been removed. A total of 41 drums weighing approximately 2120 pounds were generated and removed from the site on Thursday.

3. Fabric Cover Disposal – Schedule Update

AAA states that roll offs have been delivered to site and fabric has been containerized. AAA states that profiles have been submitted to disposal facility. Processing is anticipated to take 3-4 weeks.
Containers could not be moved with the equipment onsite and will be moved when appropriate equipment is brought to site.

4. Natural Gas Line – Schedule Update

AAA states that they could not get in touch with Natural gas company and subcontractor to communicate NYSDEC wishes/issues regarding OSHA
AAA will excavate and expose the gas main on July 7th and 8th. We also excavate a trench adjacent and parallel to the existing main 1' deep into the clay layer. On July 9th a National Fuel subcontractor will be on-site to disconnect and relocate the gas main into the parallel trench. They will us the sand we provided for bedding the pipe. He indicated this will take one day to complete.
AAA will complete remaining excavation and backfill.
NYSDEC inquires if Natural Gas Company understands that the materials are hazardous in nature and how we are doing this
NYSDEC questions regarding OSHA are his responsibility and he wants to make sure Natural Gas company understands working conditions.
Discussion occurs regarding post excavation soil sampling procedures and that it needs to be conducted as before.
Norampac inquires as why we have not started excavation activities in the mean time to collect samples prior to Natural Gas subcontractors coming onsite.

5. Surveyor Activities

Tighe & Bond states that all cap and undeveloped area stakes have been installed in preparation for final grading

6. Scheduled Activities for Week of 6/16

Final grading of Cap
Regarding of West end of the site
Installation of detention basin
Installation of Telephone guide line
AAA states that top soil installation and seeding are postponed until grading has been completed
NYSDEC asks if soil laboratory results are going to be ready by next week
Tighe & Bond states that by Wednesday 6/25

7. Other items

Traffic

Please keep vehicles as far out of truckers driving area as possible, preferably along northern fence line

Vacation Schedule

Norampac week of 6/23 and 6/30 – HSE to act as Leon's representation
MetroWaste week of 6/23 - contact Pete onsite if problems.
NYSDEC Kevin Glaser on vacation 6/27 to 7/7

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
June 27, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

June 30, 2008

Attendees:

Leon Marineau, Norampac Industries;
Craig Slater, HSE;
Jeff Meyer, Metro Waste
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Greg Beach, Tighe & Bond;
Jim Olsen, Tighe & Bond; and
William Murray, NYSDEC

1a. Cap Completion

AAA states that we are in the process of grading containment cell. AAA states that they should be finished with grading and compaction of containment cell by July 2, 2008.
T&B states that they are working on coordination of SJB and internal geotechnical engineer to be onsite next week
AAA states that they are still looking for a vibratory sheep's foot roller
HAS wants to know what contingency plan is if we can't get compaction
AAA indicates that we will either keep working it or introduce additives to increase moisture reduction.
HSE inquires as to what will be delay time if we do not meet compaction standards?
AAA states it is a play by ear scenario
HSE inquires to status of response by NYSDEC to revised plan submittal
NYSDEC states that the entire letter was not addressed in its entirety and they won't review submittal until it has all been submitted
T&B indicates that there information was not previously submitted to NYSDEC

1b. Mercaptan Cylinders

Several cylinders were identified during the course of soil removal activities
NYSDEC concerned about OSHA safety for workers, do workers know what to do when they encounter a cylinder, leaking or otherwise.
T&B stated that the cylinders were carefully removed with excavator and shovel
AAA states that JSA will be modified to address mercaptan cylinders identified during the course of daily activities.
NYSDEC questioned whether or not the JSA was included/added to HASP
AAA stated that JSA was incorporated into HASP, however JSA was developed under the assumption that the cylinders were only in one area of the site

NYSDEC states that JSA does not clearly define what to do if a cylinder is encountered and that T&B was informed of this issue and that AAA should have been also
NYSDEC states that cylinders are onsite, foamed and in buckets pending disposal activities

2. Asphalt Removal/Disposal/Staging Activities
   AAA states that asphalt removal was not originally part of project, but was required due to re-design. Asphalt is currently onsite pending laboratory analysis and disposal.
   T&B states that TCLP lead sample will be collected when modified type 2 sample is delivered to site

3. Fabric Cover Disposal – Schedule Update
   AAA states that Protek informed them that the covers will go offsite possible next week providing some one will be onsite to sign manifests.
   T&B will be onsite to sign manifests

4. Natural Gas Line – Schedule Update
   AAA stated that the natural gas company provided AAA with a list of contractors and that they will call all vendors to find someone with OSHA training.
   AAA considering removing all of the soils ahead of time and they will talk offline. Natural gas company does not want to suspend line. AAA is looking for OSHA trained sub. Work may have to be postponed again if they can't find sub with OSHA training. AAA still does not know where natural gas company wants line moved to. Natural gas company does not want to go offsite, due to easement issues and does not want line on surface.

5. Surveyor Activities
   AAA stated that surveyor staked inverts of pipe, confirmed grading and marked toe of slope.

6. Grading/Retention/Detention Basin Installation Activities
   AAA states that basin has been installed and drain pipe only thing pending

7a. Clean Fill Sampling
   T&B states that modified Type 2 still needs to be delivered, top soil met Impacted Backfill requirements and the sand results are pending.

7b. Field Density Measurement Activities
   Tentatively scheduled for Thursday 7/3, weather permitting.

8. Scheduled Activities for Week of 6/30
   Final grading of containment cell

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
July 3, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

July 14, 2008

Attendees:

Craig Slater, HSE;
Tom Derkovitcz,MetroWaste
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Greg Beach, Tighe & Bond;
Jaspal Walia, NYSDEC

1. Cap Completion Activities

AAA states that containment cell is built and needs to be compacted and have compaction testing completed.
HAS inquires if it stops raining, how long will it take to finish compaction
AAA states 3-5 days if it stops raining, will not take a lot of time if conditions are right.

2. Asphalt Removal/Disposal/Staging Activities – Schedule Update

AAA states that rolloffs are onsite for asphalt loading. Laboratory results are needed to make proper determination of disposal location

3. Fabric Cover Disposal – Schedule Update

AAA states that fabric covers are in rolloffs and pick up is scheduled for Monday. Two more are scheduled to be dropped off on Monday for silt fence and haybales

4. Natural Gas Line – Schedule Update

AAA states that excavation is planned to begin on 7/7. Soils will be allowed to remain around line. Samples will be collected and then line will be reinstalled. Should take approximately 1-2 weeks start to finish

5. Stormwater Containment Activities

Tighe & Bond states that there was an issue with breach from dirty side to clean side due to improper silt fence and haybale installation/replacement activities. Silt fence and haybales have been reinstalled approximately 5 feet to the west in clean material. Obviously impacted soils were removed.

6. Grading/Retention/Detention Basin Installation Activities

AAA states that basin has been installed and drain pipe only thing pending. Topsoil will not be brought in until after gas line has been backfilled. Topsoil and seeding should take week until end of week of 7/21 to be completed.

7. Clean Fill Sampling

Tighe & Bond states that all lab results have come back below the Imported Backfill standards with the exception of Type 2, as the sample drop off is still pending.

8. Field Density Measurement Activities

Tighe & Bond states that the field density testing is dependant on Mother Nature.
AAA states that they are running out of work to do.

9. Mercaptan Cylinders

General discussion regarding revised JSA

10. Scheduled Activities for Week of 7/7

Natural Gas Line
Geotechnical Field Density Testing
Fine grading of north slope
Fine grading near pipe
GCL delivery
Dumpster removal and delivery
Pipe installation is on hold until further notice
AAA states that work is slowing down
HSE states that they will push proctors

Other Issues

All top soil trucks will need to be weighed
10% of all Sand and Type 2 soils will need to be weighed

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
July 10, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

July 16, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Tom Derkovitcz, MetroWaste
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Greg Beach, Tighe & Bond;
Bill Murray, NYSDEC;
Kevin Glacier, NYSDEC

1. Cap Completion Activities

HSE states that Compaction Letter/Certification submitted to NYSDEC and there are ongoing conversations regarding the cylinders between HSE and NYSDEC regarding the matter and we would like to move forward with the completion of the containment cell.

AAA states that containment cell is graded. Piles need to be removed. Concrete needs to be removed. The bulldozer and roller will be decontaminated to spread clean sand. Topsoil will be moved to following week. Sand will take approximately 3-4 days. Remaining GCL will be moved to the site next week for installation.

NYSDEC requested schedule revisions. Questions if completion date has been pushed to August 15th?

AAA states that paving is scheduled to be completed for second week in August. GCL will take up to two weeks, weather dependant. We will work weekends and extra time on weekdays to make up time. Schedule will be updated weekly.

2. Asphalt Removal/Disposal/Staging Activities – Schedule Update

AAA states that asphalt is staged in 2 rolloffs. Tighe & Bond will follow up with laboratory to determine status of TCLP Lead results.
Total Rolloffs onsite"

- 4 - haybales/silt fence
- 2 – asphalt
- 1 - still coming for concrete

3. Fabric Cover Disposal – Schedule Update

AAA states that fabric covers are in rolloffs and pick up is scheduled for next week.

4. Natural Gas Line – Schedule Update

AAA states that gas line excavation has started. Gas line relocation will occur on Thursday 1-2 days post-excavation completion

5. Basin Installation Activities

HSE states that meeting with town indicated that sheet drainage was not going to be allowed. Alternatives are being discussed including decreasing the pavement size. Final meeting will take place on 7/11 to discuss alternatives with Village/NYSDEC.
AAA states that they need to know what to do about ordering pipe.
HSE inquires about cost of pipe
AAA states $1,500
HSE stated they would let them know on Monday

7. Clean Fill Sampling

Tighe & Bond states that all lab results have come back below the Imported Backfill standards with the exception of Type 2, as the sample drop off is still pending.

8. Field Density Measurement Activities

Tighe & Bond states that the field density testing has been completed.
NYSDEC requesting documentation
Tighe & Bond states that documentation will be provided to by SJB to HSE and then submitted to state
AAA states that they are running out of work to do.

9. Mercaptan Cylinders

AAA states that approximately 6.5 buckets have been generated since disposal activities occurred before.
AAA states that we will continue to accumulate cylinders and ship at the end of the project.
HSE states that delineation and removal still needs to be resolved with the state

10. Scheduled Activities for Week of 7/14

Completion of Natural Gas Line
Fine grading of north slope
Additional GCL delivery
Rolloff removal and delivery
Bringing in sand

Other Issues

Concrete sampling/disposal

Discussions regarding how to sample and dispose of concrete
HSE requests a cost proposal from AAA for washing and crushing concrete and he will make a decision in the next day or so regarding matter
Norampac asks if it needs to be sampled post washin
NYSDEC states that they will look into question and lets us know
AAA states they will contact recycling facility for guidance

Footnote On 7/11 at meeting with Village of Depew, NYSDEC request formal workplan be submitted for review and approval by the Agency regarding disposal of concrete materials

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
July 18, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

July 27, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Jeff Meyer, MetroWaste
Tom Derkovitcz, MetroWaste;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Jim Olsen, Tighe & Bond;
Matt Forcucci, NYSDOH;
Bill Murray, NYSDEC;
Kevin Glacier, NYSDEC

1. Cap Completion Activities

AAA states that the installation of the sand layer is 60% complete. Early week of 7/21 the sand lens will be completely in place with the exception of the northern slope, where the drainage basin will be installed. The GCL will be installed in sections and that it cannot be left open to the air overnight.

NYSDEC discusses sand dust issues. NYSDEC states that although the meters were within the limits, significant quantities of sand /dust was blowing. Yesterday's warning to T&B and AAA was a courtesy and in the future the Environmental Conservation Officer will be called in to issue tickets. Anything that leaves the site is considered hazardous to the public.

AAA questioned the request of the NYSDEC and additional discussion ensued regarding the dust control matters.

NYSDEC stated that they will no longer remind AAA of the requirements. The resolution that was completed yesterday when the matter was brought to T&B & AAA's attention was sufficient

Norampac asks for additional information regarding dust issues

AAA states that dust issue will continue to be a problem until GCL is in place.

NYSDEC states that dust issue appears to be associated only with the receiving and movement of materials.

AAA states that Type 2 material will not be readily available and will need to be processed.

T&B discusses concerns about quantity of traffic with having to weigh vehicles as topsoil trucks do not have scales and every truck will have to be weighed.

MetroWaste indicates that a traffic marshal could be present and that 300 trucks would not be a problem. Additionally weigh tickets could be provided by scale house staff.

2. Asphalt Removal/Disposal/Staging Activities – Schedule Update

   AAA states that asphalt in dumpsters came up clean, however results may not be representative of what is actually in dumpsters.

   Norampac inquires about the matter and T&B states that sample was representative of material conditions prior to installation into dumpster, however additional quantities of soil above and beyond what was adhered to asphalt is now in dumpster.

3. Fabric Cover Disposal – Schedule Update

   AAA states that fabric covers are in rolloffs and pick up is scheduled for next week. New waste manifests were delivered to the site.

4. Natural Gas Line – Schedule Update

   DONE!!!
   Line was moved under natural gas company oversight, but not altered due to flexibility.

5. Basin Installation Activities

   Tighe & Bond state re-design is in the process of being completed and should be ready for submittal as soon as possible, but hopefully no later than Monday to NYSDEC and Village.
   NYSDEC states that as long as Village approves, the NYSDEC will not contest.
   AAA asks if they should start on completing the construction of the design or wait until approved.
   HSE states that there will be no building until approved
   Norampac inquires as to how long will it take to get approval.
   HSE states that Village should approve quickly.
   T&B states that we will have to wait for Nausbaumer approval and that could take up to 5 days.

6. Clean Fill Sampling

   T&B state that one last compound is remaining for Modified Type 2.
   Norampac inquires as to when it will be ready

T&B states that they have contacted the lab and they don't know how long it will take. Additionally the reason that the samples were collected and sent for analysis was to protect Norampac and not required by NYSDEC.
Norampac states to go ahead and bring in modified type 2 and do not wait for chromium analysis.
In addition we are still waiting for the Modified Proctor Results to come back on the material.

9. Mercaptan Cylinders

T&B states that a few cylinders were identified this week onsite and 6.5 properly labeled buckets remain onsite pending completion of the project.

10. Scheduled Activities for Week of 7/21

AAA provides the following anticipated activities

- Cap Installation Activities
- Hopefully starting GCL
- Bringing Type 2 Stone
- Topsoil may come in
- Work may continue this weekend to get sand spread over the weekend

AAA will let T&B know regarding weekend work and T&B will pass on information

Other Issues

T&B again requests that all visitors to the site sign in at trailer prior to entering the site

Hazardous Waste Manifests

NYSDEC states that most of the Hazardous Waste Shipments have had the incorrect EPA ID number. AAA has prepared a letter that went out yesterday to address incorrect number.
NYSDEC inquires if Bi-annual Hazardous Waste Report prepared by Tighe & Bond went out with the incorrect number. If so the report will need to be addressed. NYSDEC requests that AAA & T&B contact hazardous waste group to see if there are any additional requirements.

Barricades on top parking lot

HSE discusses flower boxes versus architectural jersey barriers.
Village must approve final design of Jersey Barriers and will contact Mayor to see which they prefer.

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
July 24, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

August 3, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Tom Derkovitcz, MetroWaste
Wes Jones, AAA Environmental;
Michele Alabiso, Tighe & Bond;
Matt Forcucci,
Bill Murray, NYSDEC;
Kevin Glacier, NYSDEC

1. Cap Completion Activities

AAA states that sand layer is 90-95% completed and that GCL will begin on Monday AM. GCL installation gameplan as to how layout will occur has been provided to T&B and to Kevin of NYSDEC. GCL work will be competed in sections and should take 2 weeks to be conservative.

2. Asphalt Disposal – Schedule Update

T&B states that sampling results will be in today. As soon as T&B has them they will be forwarded to AAA
AAA will provide to Proteck and Proteck will make decision regarding disposal location

3. Fabric Cover Disposal – Schedule Update

AAA states that fabric covers are in rolloffs and pick up is scheduled for next week.
NYSDEC is inquiring as to why this has not occurred and when will it occur.
AAA indicates that they understand concern of NYSDEC and will be moved as soon as possible, however they do not understand why this is an issue.
NYSDEC states that it is a hazard to the community and that AAA's credibility is in question.

4. Natural Gas Line – Schedule Update

Done including all backfilling activities

5. Basin Installation Activities

T&B states that all submittals are in and that they have spoken with John Wojsic and that next Wednesday (7/30) will be the soonest Naubaumer can provide comment.

6. Clean Fill Sampling

Tighe & Bond states that all lab results have come back below the Imported Backfill standards with the exception of Type 2, as the sample drop off is still pending.

8. Field Density Measurement Activities
   Tighe & Bond states that the field density testing has been completed.
   NYSDEC requesting documentation
   Tighe & Bond states that documentation will be provided to by SJB to HSE and then submitted to state
   AAA states that they are running out of work to do.

9. Mercaptan Cylinders
   AAA states that approximately 6.5 buckets have been generated since disposal activities occurred before.
   AAA states that we will continue to accumulate cylinders and ship at the end of the project.
   HSE states that delineation and removal still needs to be resolved with the state

10. Scheduled Activities for Week of 7/14
    Completion of Natural Gas Line
    Fine grading of north slope
    Additional GCL delivery
    Rolloff removal and delivery
    Bringing in sand

Other Issues
   Soil Stockpile

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
August 8, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

August 28, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Tom Derkovitcz, MetroWaste
Jeff Meyer, MetroWaste
Mike Pickering, AAA Environmental
Wes Jones, AAA Environmental;
James Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
Bill Murray, NYSDEC;

1. Cap Completion Activities Update
   AAA states that they have completed the removal of the sand ramp, installed GCL along the east side of the containment cell and began the installation of a two foot thick roadway. Frey will have additional Type 2 material begin being hauled today with five trucks.

2. Asphalt/Concrete Disposal – Schedule Update
   AAA states that the roll offs have been emptied onto the stock pile and this activity is complete except for breaking down the concrete into smaller pieces.

3. Fabric Cover Disposal – Schedule Update
   AAA states that this activity has been completed and all roll offs are now offsite.

4. Basin Installation Activities – Schedule update
   Tighe & Bond describes status of meetings with state/town and redesign requirements
   Tighe & Bond describes anticipated structural redesign of drainage system.
   HSE further describes status of meetings with village, requirements of the submittals and the NYSDEC. HSE inquires as to how much authority NYSDEC has to influence the outcome.
   NYSDEC discusses technical requirements of approval process and the requirements of Norampac to comply with State and Local requirements

5. Soil Pile Removal Activities – Schedule Update
   AAA states that they anticipate having ten trucks today and every week day. AAA anticipates that it will take two weeks at that rate to remove all soil from the site.
   HSE inquires if the soil pile is in the way of the completion of other activities?

AAA states that the soil pile is not slowing any other items in the western area up due to the quantity of water present.
HSE reminds everyone that air monitoring equipment must be in place when soil pile is being loaded into trucks and that the soil pile must be covered every night.
Tighe & Bond confirms that they understand HSE's request.

6. Undeveloped Area - Schedule Update
   AAA will commence again.

7. Additional Activities for Week of 8/11
   AAA states that the following activities will be completed the week of 8/11
   Shipping Haz. Waste
   GCL Installation
   Pipe installation
   Top Soil Installation
   Hydroseeding
   AAA states that they should be ready to pave the week of August 25th
   Tighe & Bond reminds AAA that the field compaction testing must be done first

Other Items

Norampac asks AAA/T&B to move forward with design and have basin surveyed in
Mercaptan cylinders - prior to trenching all air monitoring equipment will be delivered and in place.
Safety Barriers – will require approval as part of Village Site Plan review.

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Onsite Meeting
August 15, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

August 28, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Tom Derkovitcz, MetroWaste;
Jeff Meyers, MetroWaste;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Jim Olsen, Tighe & Bond;
Michele Alabiso, Tighe & Bond;
Bill Murray, NYSDEC;

1. Cap Completion Activities Update
   AAA states that 1600 linear feet of GCL has been installed as of 8/14/8. The south side of the utility pole should be completed by Sunday afternoon. We lost a week due to weather; however AAA sees no reason for additional delays for cap completion. AAA states that we are working as much and as hard as possible to get everything done.

2. Village of Depew Submittals Update
   Norampac states that package is going to be prepared and submitted and that they have made the decision to move forward on the project prior to having approvals in place. Norampac states that hopefully there will be no additional issues presented by Village, but construction will go forward and everything will be built before approvals are in place.
   NYSDEC inquires as to whether or not the paperwork has been submitted
   Tighe & Bond states that nothing has been submitted to date
   NYSDEC demands to know when paperwork will be submitted
   Tighe & Bond states that the paperwork package will be submitted by mid-next week

3. Basin Installation Activities – Schedule update
   Covered above

4. Soil Pile Removal Activities – Schedule Update
   AAA states that approximately 650 tons of soil has been moved to date. 4 trucks will be onsite today and more if possible. By next Friday, AAA feels we will be out of Hazardous soil removal business.

5. Undeveloped Area - Schedule Update
   AAA states that topsoil is still on hold pending drainage. The undeveloped area is slop, mud, saturated. Standing water is still present.
   NYSDEC inquires as to with what material old pond will be backfilled
   AAA states that the basin area will be backfilled with materials from the new pond.

6. Change in Project Staff
   Tighe & Bond state that MAA will be leaving project and that all communications should be directed to Doug Brink and Frank Mahalski after the project has been transitioned to them.
   Tighe & Bond state that a proper project transition will occur and that Doug & frank are in route to site.
   ALL request that contact information be distributed

7. Additional Activities for Week of 8/18
   AAA states that the following activities will be completed the week of August 18, 2008:
   Installation of GCL
   Dewatering
   Pipe Installation
   Subbase placement
   Topsoil as grounds allow
   Removal of Additional Hazardous Soils
   Installation of New Retention Pond
   New piping will be delivered today/Monday AM

Other Activities

Mercaptan Cylinders
AAA states that we started excavation activities yesterday and excavated approximately two feet down, eight feet long and generated three additional buckets of mercaptan cylinders.
Tighe &Bond states that there are a total of 10 buckets stored onsite.

Storm Damage
AAA states that although significant damage occurred during last weekend's storm, the remaining repairs are limited to the south slope of the cap, which needs to be fine graded and dried. Additionally, the undeveloped west end needs to be repaired and the pond needs to be drained. However the pond appears to be recharging on a daily basis

Rail Side Paving
AAA states that paving next to building will be completed today or tomorrow, possibly early next week. Cap Paving anticipated to be completed after Labor Day.

Tighe&Bond
Consulting Engineers
Environmental Specialists

Minutes from Project Meeting
August 29, 2008

Former N. L. Industries Facility
3241 Walden Avenue
Depew, New York

September 4, 2008

Attendees:

Leon Marineau; Norampac/Cascades;
Craig Slater, HSE;
Wes Jones, AAA Environmental;
Mike Pickering, AAA Environmental;
Jim Olsen, Tighe & Bond;
Doug Brink, Tighe & Bond;
Jaspal Walia, NYSDEC;
Marty Doster, NYSDEC

1. Cap Completion Activities Update

   GCL was completed and covered on Wednesday 8/27/08.
   Topsoil on containment cell slopes has been placed and hydro-seeded. An erosion control blanket was also placed on the slopes of the cell.

   Fine grading activities were to be completed by next week (9/2-3/08).

   No work was to be conducted over the holiday weekend.

2. Basin Installation Activities – Schedule update

   Basin installation activities were completed. Piping has been placed along the north side of the containment cell.

   Marty inquired about approval requirements for detention basin and that village approval will be needed to complete process.

   Western section of property is ~ 85% topsoiled and anticipates completing placement of the top soil on 9/2/08.

3. Soil Pile Removal Activities – Schedule Update

   AAA comments that soil removal activities have almost been completed and estimates that approximately eight more loads (~160 yds) are remaining. AAA anticipates that removal of the soil should be completed on 9/2/08.

4. Undeveloped Area - Schedule Update

Western section of property is ~ 85% topsoiled and anticipates completing placement of the top soil on 9/2/08.

Leon states that the crushed stone entrance/roadway that was previously placed along the western section of the undeveloped area is to remain to allow for future access to this section of the property.

5. Additional Items

Mercaptan Cylinders
Marty expressed concern that the mercaptan cylinders had not been delineated and inquired what the plan was for locating and removing remaining cylinders. Marty also stated that the certificate of completion could not be given until the cylinders had been remediated.

Leon indicated that a sufficient delineation could be conducted in order to identify locations of the cylinders and that the cylinders would be managed under the site management plan if encountered. Leon requested that the DEC put their position regarding the mercaptan cylinders in writing.

Site Management Plan (SMP)

Leon wants to meet with the DEC and discuss the SMP and continued monitoring requirements. The SMP had been submitted to the DEC in April 2008 and Norampac was still awaiting DEC comments. Leon requested feedback on the SMP from the DEC so that Norampac knows what they will need to provide to the DEC going forward.

Marty states that the DEC will review the SMP and schedule a meeting to discuss going forward.

Final Engineering Report (FER)

Jim states that Tighe & Bond will need at least 60 days to pull together the report once all field activities have been completed. Marty states that the FER would not be approved by the DEC until the mercaptan cylinder issue is resolved.

Leon states that Tighe & Bond will submit the FER, but the FER will not include any information on the delineation and removal of mercaptan cylinders, but that the cylinders will be managed in accordance with the SMP only when encountered in the future.

Monitoring Well Installation

Marty inquired on when the new monitoring wells would be installed. Jim states that the installation process was part of the SMP and once reviewed by DEC the wells could be installed. Marty indicated that the DEC would expedite the review of the SMP and provide comments. Leon indicates that once DEC reviews and approves the monitoring well location plan, the well could be installed during landscaping activities.

Landscaping

Landscaping and planting activities will be completed by L&M in September 2008. Leon indicates that Metro waste is to install barriers along the sides of the containment cell so that they can start parking on the cell this fall. Marty states that the village will need to approve barriers. Leon states that he understands that something pleasing will need to be installed along the Walden side.

Right-away Tracking

Marty was concerned that mud and dirt was being tracked from the rightaway out into the street. AAA indicated that all mud dirt was from clean areas and that they would continue to sweep/clean the areas.

Tighe&Bond

APPENDIX C

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Pre-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeCkovitz
Date of Inspection: 3/7/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week from all four sides of the cap. Please fill out the following inspection items:

1. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

2. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:_____

3. Are sand bags intact and functioning? No_____ Yes X If no, please describe:_____

4. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

5. Please describe any changes to overall area since last inspection: This is my first inspection - At the halfway point of fencing along ~~the~~ WALDEN AVE, The fence has sunk to the point of, where I can stand on the haybale and step over it. (chain link fence). The South west corner fence, is Damaged, there is large gaps in fencing, Along the Railroad Snow fence, There are Large portions ~~missing~~, of Snow fence missing.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Pre-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeKovitz
Date of Inspection: 3/14/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week from all four sides of the cap. Please fill out the following inspection items:

1. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

2. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes_____ If no, please describe: Silt fencing is missing along Walden Ave side

3. Are sand bags intact and functioning? No_____ Yes X If no, please describe:_____

4. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

5. Please describe any changes to overall area since last inspection: Sagging & missing fence wires Repaired by Tetra A. on Tuesday, 3/11/08.

Revised.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Pre-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tim DeKruitz
Date of Inspection: 3/7/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week from all four sides of the cap. Please fill out the following inspection items:

1. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

2. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No X Yes_____ If no, please describe: Silt fencing is Down Along fence Walden Ave side, & Haybales are missing

3. Are sand bags intact and functioning? No_____ Yes X If no, please describe:_____

4. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

5. Please describe any changes to overall area since last inspection: This is my first inspection - At the halfway point of fencing along ~~the~~ Walden Ave, The fence has sunk to the point of, where I can stand on the haybale and step over it. (chain link fence). The South west corner fence, is Damaged, there is large gaps in fencing, along the Railroad Snow fence, There are Large portions ~~missing~~, of Snow fence missing.

E. - 1 11:30 2/7/08

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Post-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeKovitz
Date of Inspection: 4/2/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs from all four sides of the cap, as well as on the cap surface to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items:

1. Is any area of the consolidated soil directly exposed to the environment? No X Yes___
If so, please describe location and magnitude:_____

2. Are any rip or tears or other evidence of damage visible on the liner? No X Yes___
If so, please describe location and magnitude:_____

3. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

4. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:_____

5. Are sand bags intact and functioning? No_____ Yes X If no, please describe:___

6. Are there any impacts to the surrounding neighborhood? No ✓ Yes_____ If so, please describe:_____

7. Please describe any changes to overall area since last inspection: Temporary fence on the South West Corner is Down.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Pre-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom Derkovitz
Date of Inspection: 3/4/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week from all four sides of the cap. Please fill out the following inspection items:

1. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

2. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____Yes_____ If no, please describe: Silt fencing is missing along Walden Ave side

3. Are sand bags intact and functioning? No_____Yes X If no, please describe:_____

4. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

5. Please describe any changes to overall area since last inspection: Sagging & missing fence were Repaired by Taylor A. on tuesday 3/11/08.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Pre-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeKoutz
Date of Inspection: 3/20/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week from all four sides of the cap. Please fill out the following inspection items:

1. Is there any evidence of soil run-off or erosion from the consolidation area? No X Yes_____ If so, please describe:_____

2. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe: Silt fencing is still down in places -

3. Are sand bags intact and functioning? No_____ Yes X If no, please describe:_____

4. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

5. Please describe any changes to overall area since last inspection: None

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Post-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DerKovitz
Date of Inspection: 4/9/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs from all four sides of the cap, as well as on the cap surface to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items:

1. Is any area of the consolidated soil directly exposed to the environment? No X Yes___
If so, please describe location and magnitude:___

2. Are any rip or tears or other evidence of damage visible on the liner? No X Yes___
If so, please describe location and magnitude:___

3. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:___

4. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:___

5. Are sand bags intact and functioning? No_____ Yes X If no, please describe:___

6. Are there any impacts to the surrounding neighborhood? No___ Yes X If so, please describe: Mayor + Village board need to see a proposal for Landscaping + Hedgerow Blocking Rail Road.- Being done by Lm Stone -

7. Please describe any changes to overall area since last inspection:___
Southwest corner temporary fence is down.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Post-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeKoviz
Date of Inspection: 4/14/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs from all four sides of the cap, as well as on the cap surface to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items:

1. Is any area of the consolidated soil directly exposed to the environment? No__ Yes__
If so, please describe location and magnitude: it appears wind has lifted small 3 ft section of liner -

2. Are any rip or tears or other evidence of damage visible on the liner? No X Yes__
If so, please describe location and magnitude:

3. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:

4. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:

5. Are sand bags intact and functioning? No_____ Yes X If no, please describe:

6. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:

7. Please describe any changes to overall area since last inspection: FENCE STILL DOWN.

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Post-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom DeckoVitz
Date of Inspection: 4/23/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs from all four sides of the cap, as well as on the cap surface to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items:

1. Is any area of the consolidated soil directly exposed to the environment? No X Yes___
If so, please describe location and magnitude:_____

2. Are any rip or tears or other evidence of damage visible on the liner? No X Yes___
If so, please describe location and magnitude:_____

3. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

4. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:_____

5. Are sand bags intact and functioning? No_____ Yes X If no, please describe:___

6. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

7. Please describe any changes to overall area since last inspection: Triple A fixed fence & Covered Exposed Soil

Tighe&Bond

Former N.L. Industries
3241 Walden Avenue
Depew, NY
Post-Snow Melt/Liner Repair Weekly Inspection Form

Name of Inspector: Tom VanKouwenberg
Date of Inspection: 4/30/08

The purpose of this inspection is to monitor the overall integrity of the temporary geotextile liner during the winter intermission of the remedial activities at the Former N.L. Industries Site. Please take photographs from all four sides of the cap, as well as on the cap surface to document the existing condition of the consolidated soil area including the temporary geotextile liner, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items:

1. Is any area of the consolidated soil directly exposed to the environment? No X Yes___
If so, please describe location and magnitude:_____

2. Are any rip or tears or other evidence of damage visible on the liner? No X Yes___
If so, please describe location and magnitude:_____

3. Is there any evidence of soil run-off or erosion from the consolidation area? No X
Yes_____ If so, please describe:_____

4. Are haybales and silt fencing intact and functioning and is storm water run-off being controlled? No_____ Yes X If no, please describe:_____

5. Are sand bags intact and functioning? No_____ Yes X If no, please describe:_____

6. Are there any impacts to the surrounding neighborhood? No X Yes_____ If so, please describe:_____

7. Please describe any changes to overall area since last inspection: None

Tighe&Bond

APPENDIX D

Tighe&Bond
Consulting Engineers
Environmental Specialists

C-6254-02-01
July 9, 2008

Mr. Leon Marineau
Vice-President, Environment
Cascades Canada Inc.
471 Marie-Victorin Blvd.
P.O. Box 390
Kingsley Falls (Quebec), Canada J0A 1B0

Re: Containment Cell Certification
Former N.L. Industries Foundry
Site # C915200

Dear Mr. Marineau:

In accordance with the New York State Department of Environmental Conservation (NYSDEC) letter dated July 2, 2008, this letter is to serve as certification of the containment cell for support of tractor trailers.

Mr. Christopher Haker a geotechnical engineer with over 11 years of engineering experience of our Worchester, Massachusetts office, visited the site on July 8, 2008. During Mr. Haker's visit SJB Services, Inc. (SJB) of Hamburg, New York, a certified geotechnical testing company, performed 16 field density tests across the top of the containment cell sub-grade. A comparison of the test results to the highest of the four Modified Proctor test results (which is conservative) recently obtained from the site indicated that all 16 tests were at least 97% of the maximum dry density.

Just prior to performing the field density tests, Mr. Haker observed AAA Environmental, Inc. (AAA) of Syracuse, New York, the project Contractor, compacting the sub-grade surface with a 13 ton sheep's foot roller. In general, minimal weaving of the sub-grade was observed under the static weight of the roller. However, limited areas experienced rutting, particularly on the south side of the cell, up to approximately 3 inches and weaving up to approximately 2 inches. Although this rutting and weaving is not ideal, it is Tighe & Bond's opinion that this will not significantly impact the integrity of the cap system and its ability to support tractor trailer loads.

Based on these recent test results and observation of the sub-grade under the compactive effort, it is our opinion that the containment cell sub-grade is reasonably stable and suitable for cap construction later this week. It must be noted that, like with any cap system, maintenance of this system will be required. It should be expected that the pavement will experience some rutting and cracking and will require periodic repair. Pavement maintenance will likely decrease with time as the containment cell continues to stabilize. To limit potential pavement

rutting and cracking, Tighe & Bond recommends the placement of the bituminous finish course layer and vehicular loading be delayed until next year.

We trust this serves as the certification you require to begin cap construction. Should you have any questions regarding this letter, please contact me at (413) 572-3265.

Very truly yours,

TIGHE & BOND, INC.

Thomas C. Couture, P.E.
Senior Vice President

J:\C\C6254 - former nl\C6254.mto\Correspondence\Depew Draft Certification letter.doc

Tighe&Bond

APPENDIX E

HSE
Harter Secrest & Emery LLP
ATTORNEYS AND COUNSELORS
WWW.HSELAW.COM

December 9, 2009

VIA CERTIFIED MAIL/RETURN RECEIPT REQUESTED

Mayor Barbara Alberti
Depew Municipal Building
85 Manitou Street
Depew, New York 14043

Re: ***Notice of Environmental Easement***
3241 Walden Avenue, Buffalo, Erie County, NY
Site No. C 915200; BCP No. B9-05554-9212
Our File No. 085573.2

Dear Mayor Alberti:

As you may know, the above-referenced Site is undergoing a voluntary environmental cleanup pursuant to the New York State Department of Environmental Conservation (DEC") Brownfield Cleanup Program. As part of the cleanup, an environmental easement has been placed on the Site. Accordingly, please be advised that DEC has granted an Environmental Easement pursuant to Article 71, §36 affecting real property held by Norampac Industries, Inc. located at 3241 Walden Avenue, Depew, Erie County, New York, known and designated on the tax map of Erie County as tax map number Section 104.09, Block 5, Lot 1, DEC Site No. C 915200.

This Environmental Easement restricts future use of the Site to restricted industrial use. It also assures that the cover system consisting of 4.5 inches of sub-base material and 6 inches of asphalt is to be maintained and provides that all the paved areas of the containment cell are also to be maintained and monitored. Additional specific restrictions and obligations are contained in a Site Management Plan prepared for the Site and incorporated in the Environmental Easement attached hereto.

Article 71, §71-3607 of the New York State Environmental Conservation Law requires that:

1. Whenever the department is granted an environmental easement, it shall provide each affected local government with a copy of such easement and shall also provide a copy of any documents modifying or terminating such environmental easement.
2. Whenever an affected local government receives an application for a building permit or any other application affecting land use or development of land that is subject to an environmental easement and that may relate to or impact such easement, the affected local government shall notify the department and refer such application to the department. The department shall evaluate whether the application is consistent with the environmental easement and shall notify the affected local government of its determination in a timely fashion, considering the time frame for the local government's review of the application. The affected local government shall not approve the application until it receives approval from the department.

An electronic version of every environmental easement that has been accepted by DEC is available to the public at *http//www.dec.ny.gov/cfmx/extapps/derfoil/index.cfm?pageid*. If you have any questions or comments regarding this matter, please do not hesitate to contact me.

Very truly yours,

Harter Secrest & Emery LLP

Angela M. Demerle

Angela M. Demerle
Counsel
Direct Dial: 716-844-3722
Email: ademerle@hselaw.com

AMD:jp
Enclosure

cc: Yvonne M. Ward, Esq. (NYSDEC)
Charles Brink (Tighe & Bond)
Craig A. Slater, Esq.

AFFIDAVIT OF SERVICE BY CERTIFIED MAIL

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

I, ANGELA M. DEMERLE, being duly sworn, deposes and says:

1. That I am over the age of eighteen years and am not a party to the within action.

2. That on the 9th day of December, 2009, I served the original of the true copy of the attached letter, dated December 9, 2009, in the within matter upon Mayor Barbara Alberti, Depew Municipal Building, 85 Manitou Street, Depew, New York 14043, by first-class certified mail, return receipt requested addressed to the individual as set out above, such address being for such purpose, and depositing said envelope in a mail depository regularly maintained by and under the exclusive care, custody and control of the said United States Postal Service.

Angela M. Demerle
ANGELA M. DEMERLE

SWORN to before me this 9th
day of December, 2009

Staci L. Holquist
NOTARY PUBLIC

STACI L. HOLQUIST
Notary Public, State of New York
Qualified in Erie County
Commission Expires June 30, 2012

TP-584.2 (10/96)

Recording Office Time Stamp

FILED

DEC - 1 2009

ERIE CO
CLERK'S

Real Estate Transfer Tax Return For Public Utility Companies' and Governmental Agencies' Easements and Licenses

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is $500.00 or less.

Name of grantee (public utility company or governmental agency)
The New York State Department of Environmental Conservation

Federal employer identification number (if applicable) 14-6013200

Address of grantee
625 Broadway, Albany, NY 12233-1500

Name and telephone number of person to contact
Yvonne Ward (518)402-9521

	Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1.	Norampac Industries, Inc.	3241 Walden Avenue,	$0.00
2.		T/O Cheektowaga,	
3.		Erie County, NY	
4.		Tax Map 104.09-5-1	
5.	Environmental Easement Held by NYSDEC		
6.	Pursuant to Title 36 of Article 71		
7.	Of the NYS Environmental Conservation Law		
8.	SITE NO. C 915200		
9.			
10.			
11.			
12.			
13.			
14.			
15.			

If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

Name of grantee

Signature of partner, officer of corporation, governmental official, etc.

/Yvonne M. Ward - NYS-DEC

Title

/Senior Attorney / OGC

Honorable Kathleen C. Hochul
County Clerk
Erie County
92 Franklin Street
Buffalo, NY 14202
(716) 858-8785

DATE:12/01/2009
TIME:01:22:10 PM
RECEIPT:813599

HARTER, SECREST & EMERY, LLP BOX 29

ITEM -01 785U 01:22:10 PM
CTRL #:2009240990 BK/PG:D11173/9605
DEED SEQ:TT2009008423
NORAMPAC INDUSTRIES INC
DEPARTMENT OF ENVIRONMENTAL CONSERVATI

RECORDING FEE		100.00
TP584		10.00
MARKOFF FEE		0.00
Sub. Total	110.00	

ITEM -02 721 01:22:10 PM
CTRL #:2009240991 BK/PG:D11173/9617
NEW YORK STATE ELECTRIC&GAS CORPROATIO

RECORDING FEE		110.00
MARKOFF FEE		0.50
Sub. Total	110.50	

AMOUNT DUE:	$220.50	
PAID CHECK:	$210.00	
Check #:5184		$210.00
PAID ESCROW:	$10.50	
TOTAL PAID:	$220.50	

REC BY:JC
County Clerk
Have a nice day!

.County: Erie Site No: C 915200 BCA Index No:-B9-0554-98-12

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this as OK 12 day of ~~October~~ November, 2009, between Owner(s) Norampac Industries, Inc., having offices at 4001 Packard Road, Niagara Falls, New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233.

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and of ensuring the potential restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 3241 Walden Avenue, in the Town of Cheektowaga, Erie County, State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel number: Section 104.09 Block 5 Lot 1, commonly known as the Former NL Industries Site, being the same as that property conveyed to Grantor by deed on December 29, 1997, and recorded on January 14, 1998 in Book 10926 at page 3284, comprising of approximately 7.48 ± acres (The " Property") and the Controlled Property being a portion of the Property comprising of approximately 4.65 ± acres and hereinafter more fully described in the ALTA/ACSM Land Title Survey of 3241 Walden Avenue, dated October 22, 2008 (revised July 17, 2009) prepared by Nussbaumer & Clarke, Inc. Engineers and Surveyors, and corresponding Schedule "A" property description, attached hereto and made a part hereof (the "Controlled Property"); and

WHEREAS, the Commissioner does hereby acknowledge that the Department accepts this Environmental Easement in order to ensure the protection of human health and the environment and to achieve the requirements for remediation established at this Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the covenants and mutual promises contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number B9-0554-98-12, Grantor grants, conveys and releases to Grantee a permanent Environmental Easement pursuant to Article 71, Title 36 of the ECL in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property:

A. The Controlled Property may be used for industrial use as described within 6 NYCRR Part 375- 1.8 (g) (2) (iv), as long as the following long-term engineering controls are employed and the land use restrictions specified below are adhered to:

Engineering Controls (ECs)

The existing and newly installed EC systems in place at the site consist of the following:

Cover System:

• Asphalt only: the pavement in the trucking yard within the eastern section of the site d is covered by 4.5 inches of sub-base material and 6-inches of asphalt (4.5 binder coat and 1.5 inches top coat) is to be maintained. The eastern parking lot paved with asphalt for employee parking. In addition, the area identified as the "rail siding area" was paved with 6-inches of asphalt consisting of 4 inches binder coat and 2 inches top coat is to be maintained.

• Building and Apron Concrete: The floor of the existing building and exterior concrete pads/aprons are to be maintained with a minimum of 6 inches of concrete.

• GCL and Soil: All non-paved areas (side slopes of the containment cell) of the containment cell are covered by approximately 12- inches of clean soil underlain by a GCL covering with a 6-inch sand layer between the GCL and impacted fill. All exposed environmentally clean soil/fill has been hydro seeded as an erosion control methodology. This cover system is to be maintained and monitored.

• GCL and Asphalt: All paved areas of the central section containment cell are covered by 6 inches of asphalt (4 inches binder coat and 2 inches top coat) underlain by 12-inches of clean fill, followed by a GCL covering with a 6-inch sand layer between the GCL and the impacted fill. A figure depicting the locations of each cover system type is included in the site Management Plan (SMP). The SMP outlines the procedures required to be implemented in the event a cover system is breached, penetrated or temporarily removed and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of these cover systems are provided within the SMP.

Additional engineering controls:

• The groundwater beneath the central and eastern sections of the property may not be used for potable or non-potable purposes

• The eastern and central portions of the site contain remaining impacted fill material enclosed by several types of cover systems. Any future intrusive work that will penetrate the cover systems, or encounter or disturb the remaining impacted fill, including any

modifications or repairs to the cover systems will be performed in compliance with the SMP.

• buried gas cylinders have been encountered during previous excavation activities at the site. In the event that additional cylinders are encountered during any subsurface activities, excavation will cease and the Owner's P.E. and NYSDEC will immediately be notified. All cylinders encountered will be evaluated by the Owner's P.E. and the Owner will submit a removal plan to NYSDEC for review and approval. Appropriately trained personnel will excavate and remove all cylinders within the designated work area while following all applicable federal, state, and local regulations. Removed cylinders will be properly characterized and removed from the site.

Institutional Controls (ICs)

• Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

• ECs must be operated and maintained as specified in the SMP;

• All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP;

• Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP;

• The central and eastern portions of the property may only be used for industrial/commercial purposes provided that the long-term ECs/ICs included in the SMP are employed;

• The central and eastern portions of the property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

• All future activities on the property that will disturb remaining impacted material must be conducted in accordance with the SMP;

• Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP. Institutional Controls may not be discontinued without an amendment to or extinguishment of the Environmental Easement;

• The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable;

B. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the Site Management Plan ("SMP") that the Department has approved for the Controlled Property and all Department-approved amendments to that SMP.

The Grantor hereby acknowledges receipt of a copy of the NYSDEC-approved Site Management Plan, dated October 19, 2009. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system on the Controlled Property, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. Upon notice of not less than thirty (30) days the Department in exercise of its discretion and consistent with applicable law may revise the SMP. The notice shall be a final agency determination. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer
NYSDEC - Region 9
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, NY 14203-2999
Phone: (716) 851-7220 fax: (716) 851-7226

or

Site Control Section
Division of Environmental Remediation
NYS DEC
625 Broadway
Albany, New York 12233

C. The Controlled Property may not be used for a higher level of use such as unrestricted residential, restricted residential or commercial use and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

D. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant of Title 36 to Article 71 of the Environmental Conservation Law.

E. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

F. Grantor covenants and agrees that it shall annually, or such time as NYSDEC may allow, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury that the controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls employed at the Controlled Property were approved by the NYSDEC, and that nothing has occurred that would impair the ability of such control to protect the public health and environment or constitute a violation or failure to comply with any Site Management Plan for such controls and giving access to such Controlled Property to evaluate continued maintenance of such controls.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Controlled Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer the underlying fee interest to the Controlled Property by operation of law, by deed, or by indenture, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person intentionally violates this Environmental Easement, the Grantee may revoke the Certificate of Completion provided under ECL Article 56, Title 5 or ECL Article 27 Title 14 with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach. Grantor shall then have a reasonable amount of time from receipt of such notice to cure. At the expiration of said second period, Grantee may commence any proceedings and take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement in accordance with applicable law to require compliance with the terms of this Environmental Easement.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar its enforcement rights in the event of a subsequent breach of or noncompliance with any of the terms of this Environmental Easement.

6. Notice. Whenever notice to the State (other than the annual certification) or approval from the State is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:
County, NYSDEC Site Number, NYSDEC Contract or Order Number, and the
County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: C 915200
Department of Environmental Enforcement
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

Such correspondence shall be delivered by hand, or by registered mail or by certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. This Environmental Easement may be amended only by an amendment executed by the Commissioner of the New York State Department of Environmental Conservation and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Grantor's Name: Norampac Industries Inc.

By: _____
Sal Sciarrino, Director

Title: Director Date: 10/23/2009

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation

NOV 12 2009

By: _____
Alexander B. Grannis, Commissioner

Dale A. Desnoyers, Director
Division of Remediation

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Niagara)

On the 23rd day of October, in the year 2009, before me, the undersigned, personally appeared SAL L. SCIARRINO, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____ 4964451
Notary Public, State of New York

THERESA HUSTON #4964451
Notary Public, State of New York
Qualified in Niagara County
My Commission Expires April 2, 2010

Grantee's Acknowledgment

STATE OF NEW YORK)
COUNTY OF Schenectady) ss:

On the 13th day of November, in the year 2009 before me, the undersigned, personally appeared Dale A. Desnoyers, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Division Director of DER as delegated by the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2010

SCHEDULE "A" PROPERTY DESCRIPTION

SCHEDULE 'A' - DEED DESCRIPTION

TICOR TITLE INSURANCE COMPANY, ORDER NO.: 5008-25273
EFFECTIVE DATE: DECEMBER 30, 2008

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD; RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1513.6 FEET TO THE NORTHWESTERLY CORNER OF LANDS CONVEYED TO CHARLES A. FINNEGAN BY GEORGE W. WICKERSHAM AND EDWARD J. HANCY, AS EXECUTORS OF THE LAST WILL AND TESTAMENT OF MARY A.P. DRAPER, DECEASED, DATED MAY 5, 1922 AND RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 1634 OF DEEDS AT PAGE 96; THENCE SOUTHERLY AT RIGHT ANGLES TO THE SOUTHERLY LINE OF WALDEN AVENUE A DISTANCE OF 173.16 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202; THENCE EASTERLY AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 1511.13 FEET; THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 259.18 FEET TO THE POINT OF BEGINNING.

EASEMENT AREA DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD;

RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1104.67 FEET;

THENCE SOUTHERLY FORMING AN INTERIOR ANGLE OF 90°00'00" A DISTANCE OF 209.36 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202;

THENCE EASTERLY AT AN INTERIOR ANGLE OF 93°14'32" AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 860.15 FEET;

THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.42 FEET TO THE POINT OF BEGINNING, CONTAINING 4.65 ACRES OF LAND MORE OR LESS.

SURVEYOR'S DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD;

RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1513.60 FEET TO THE NORTHWESTERLY CORNER OF LANDS CONVEYED TO CHARLES A. FINNEGAN BY GEORGE W. WICKERSHAM AND EDWARD J. HANCY, AS EXECUTORS OF THE LAST WILL AND TESTAMENT OF MARY A.P. DRAPER, DECEASED, DATED MAY 5, 1922 AND RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 1634 OF DEEDS AT PAGE 96;

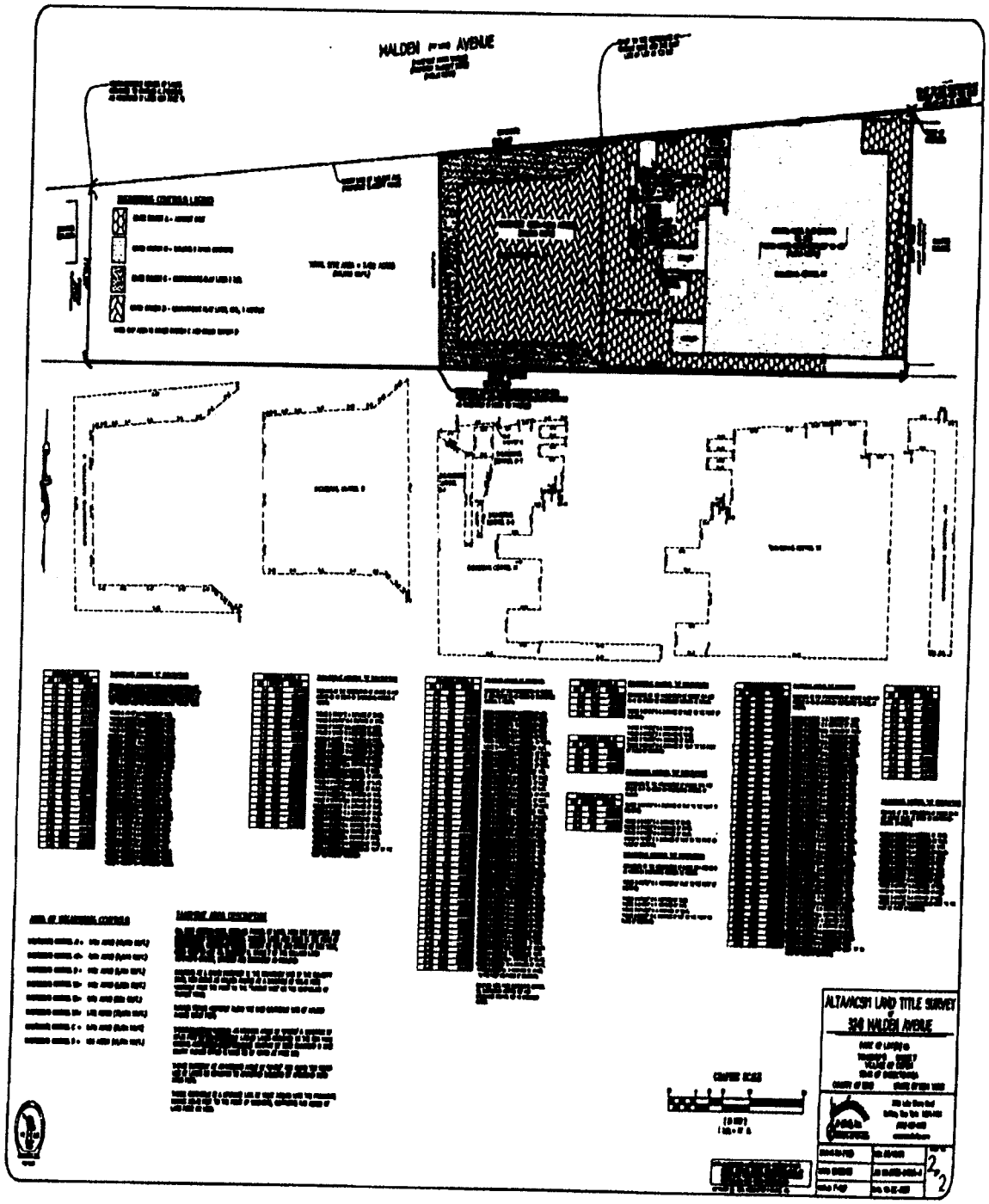
THENCE SOUTHERLY FORMING AN INTERIOR ANGLE OF 93°14'32" A DISTANCE OF 172.81 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202;

THENCE EASTERLY AT RIGHT ANGLES AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 1511.18 FEET;

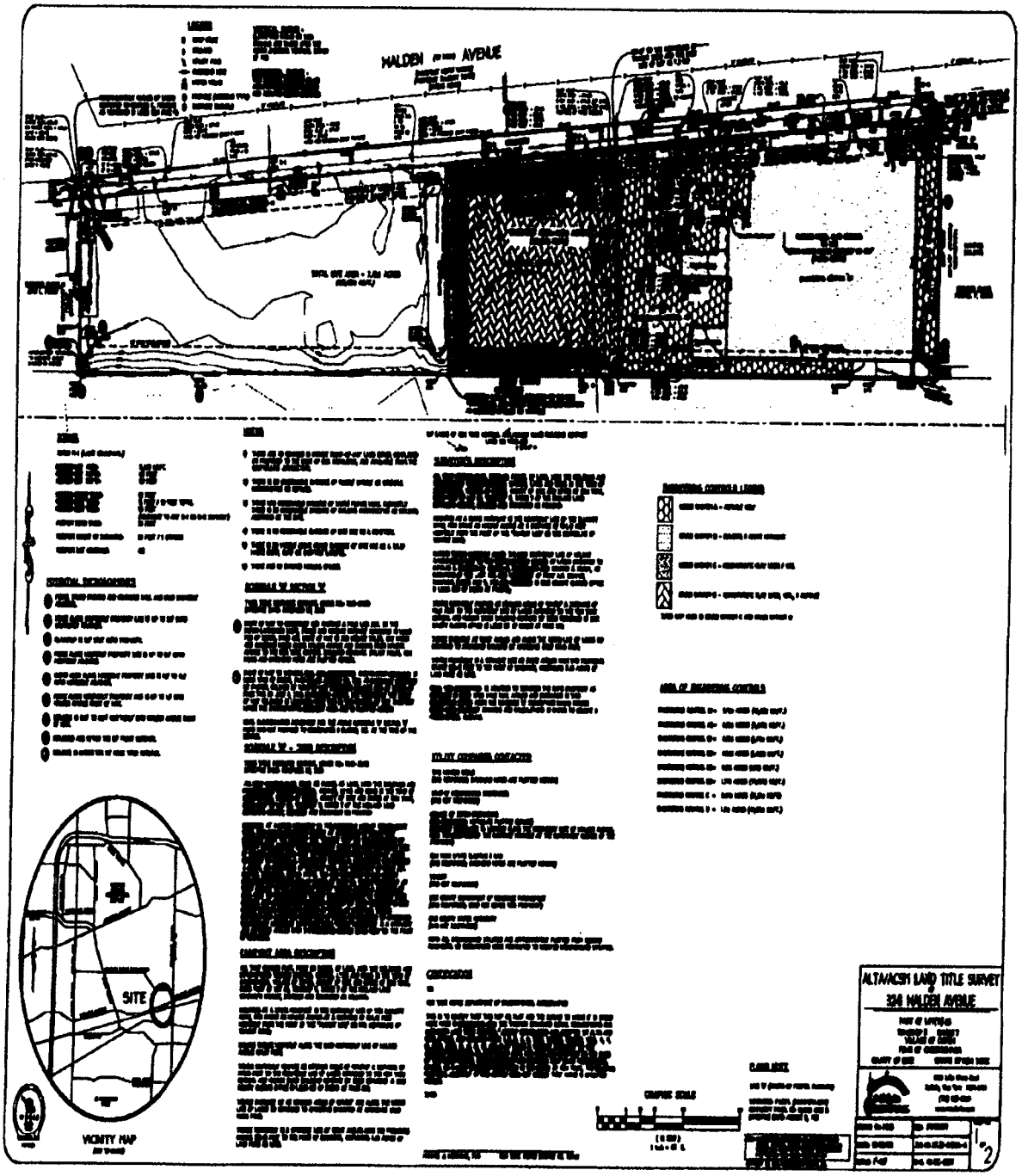
THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.42 FEET TO THE POINT OF BEGINNING, CONTAINING 7.48 ACRES OF LAND MORE OR LESS.

NOTE: THIS DESCRIPTION IS INTENDED TO DESCRIBE THE SAME PROPERTY AS CONVEYED IN LIBER 10926 PAGE 3284. ANGLES AND DISTANCES IN THIS DESCRIPTION DIFFER FROM THE SCHEDULE 'A' DESCRIPTION SHOWN HEREON BASED UPON BOUNDARY EVIDENCE AND CALCULATIONS IN ORDER TO CREATE A MATHEMATICAL CLOSURE

SURVEY


HALDEN AVENUE
ALTA/ACSM LAND TITLE SURVEY
314 HALDEN AVENUE
2/2

SURVEY


HALDEN AVENUE
SITE
VICINITY MAP
ALTA/ACSM LAND TITLE SURVEY
334 HALDEN AVENUE

FILED

DEC - 1 09

ERIE COUNTY
CLERK'S OFFICE

SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

That, for consideration of the sum of One Dollar ($1.00) and other good and valuable considerations, in hand paid, receipt of which is hereby acknowledged, New York State Electric and Gas Corporation ("NYSEG"), agrees and by these presents does agree that The People of the State of New York acting through their Commissioner of the Department of Environmental Conservation has an interest in the following described real property, by a certain Environmental Easement from NORAMPAC INDUSTRIES, INC. ("Grantor") to the People of the State of New York ("Grantee") acting through their Commissioner of the Department of Environmental Conservation, dated the 12th day of November, 2009, recorded in Liber 11173 of Deeds at page 9605, in the records of Erie County, a copy of which is attached.

Except as set forth below, the above-described Environmental Easement shall be a superior interest upon said property and any rights of the undersigned under or pursuant to the following recorded documents:

1. Easement granted by Empire Smelting Co. to The Depew & Lancaster Light, Power and Conduit Company, dated July 28, 1927 and recorded in Liber 1924 of Deeds at page 468.

2. Notwithstanding the above, NYSEG shall have unrestricted access to its facilities located on or under said property as required, in its sole discretion, to address safety or reliability issues associated therewith. NYSEG shall have unrestricted access to those facilities to perform routine maintenance upon thirty (30) days notice to Grantor, subject only to reasonable conditions imposed by Grantor that are consistent with the restrictions set forth in the Environmental Easement.

If superior Environmental Easement is amended or assigned, it is still the intent that this Subordination Agreement be enforced.

NEW YORK STATE ELECTRIC AND GAS CORPORATION

By: _____
Jeffrey R. Clark

Its: Managing Attorney

STATE OF NEW YORK)
SS.
COUNTY OF MONROE)

On this 24TH day of July, 2009, before me, the undersigned, personally appeared **JEFFREY R. CLARK** to me known or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person on behalf of which the individual acted, executed the instrument.

DEBRA A. WEGMAN
NOTARY PUBLIC, State of New York
Monroe County # 01WE6000054
Commission Expires Dec. 8, 2009

Debra a wegman
Notary Public

488

Recorded by
Compared by

acres (1924)

to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same, as such executor aforesaid.

C.E. Mather
Commissioner of Deeds in and for the City of Buffalo, N.Y

Recorded and Examined
July 29, 1927 at 3:01 P.M.

Dep Clerk

Right of Way

Received from The Depew & Lancaster Light, Power & Conduit Company one dollar ($1.00) in consideration of which I hereby grant, convey and release unto said Company, its successors and assigns, the right, privilege and authority to construct, reconstruct, operate, maintain and at its pleasure remove its electric lines, or any parts thereof including the necessary poles, wires, guys and appurtenances for conducting and distributing electricity for public and private use, as said Company may now or from time to time deem necessary along, upon and across the highways which adjoin or are upon the property and upon over and along the property which I own or in which I have an interest situate on Ellicott Road in the Village of Depew, County of Erie and State of New York with the right to trim or cut down now and from time to time, without further payment, any trees or brush along said line of a width of — feet on both sides of the line as from time to time maintained. The said company shall pay for any other damages to said property for which the Company or its agents are responsible. Said damages to be ascertained and two disinterested freeholders to be selected and paid one by each party; they to select a third in case of non agreement, who shall be paid one half by each party. Line to be built as now staked from the New York Central Railroad across my property to Ellicott Road and along Ellicott Road. Poles to be moved to a suitable location on the property if in the way of future buildings.

In Witness Whereof I have hereunto set my hand and seal the 29th day of July in the year, 1927.

Subscribed in my presence
E.D. Griswold
411

(L.S.) Empire Smelting Co
C.A.Finnegan, Pres

State of New York
ss
County of Erie

On this 28th day of July in the year One thousand nine hundred and twenty seven, before me, personally came C.A.Finnegan to me known, who being by me duly sworn, did depose and say that he resided in Buffalo, N.Y; that he is the President of the Empire Smelting Company, the corporation described in and which executed the above instrument; that he knew the seal of said corporation that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

E.Dwight Griswold
Notary Public - Erie County

Recorded and Examined
July 29, 1927 at 2:15 P.M.

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 12 day of ~~October~~ November, 2009, between Owner(s) Norampac Industries, Inc., having offices at 4001 Packard Road, Niagara Falls, New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233.

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and of ensuring the potential restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 3241 Walden Avenue, in the Town of Cheektowaga, Erie County, State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel number: Section 104.09 Block 5 Lot 1, commonly known as the Former NL Industries Site, being the same as that property conveyed to Grantor by deed on December 29, 1997, and recorded on January 14, 1998 in Book 10926 at page 3284, comprising of approximately 7.48 ± acres (The " Property") and the Controlled Property being a portion of the Property comprising of approximately 4.65 ± acres and hereinafter more fully described in the ALTA/ACSM Land Title Survey of 3241 Walden Avenue, dated October 22, 2008 (revised July 17, 2009) prepared by Nussbaumer & Clarke, Inc. Engineers and Surveyors, and corresponding Schedule "A" property description, attached hereto and made a part hereof (the "Controlled Property"); and

WHEREAS, the Commissioner does hereby acknowledge that the Department accepts this Environmental Easement in order to ensure the protection of human health and the environment and to achieve the requirements for remediation established at this Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the covenants and mutual promises contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number B9-0554-98-12, Grantor grants, conveys and releases to Grantee a permanent Environmental Easement pursuant to Article 71, Title 36 of the ECL in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose. .

2. Institutional and Engineering Controls. The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property:

A. The Controlled Property may be used for industrial use as described within 6 NYCRR Part 375- 1.8 (g) (2) (iv), as long as the following long-term engineering controls are employed and the land use restrictions specified below are adhered to:

Engineering Controls (ECs)

The existing and newly installed EC systems in place at the site consist of the following:

Cover System:

• Asphalt only: the pavement in the trucking yard within the eastern section of the site d is covered by 4.5 inches of sub-base material and 6-inches of asphalt (4.5 binder coat and 1.5 inches top coat) is to be maintained. The eastern parking lot paved with asphalt for employee parking. In addition, the area identified as the "rail siding area" was paved with 6-inches of asphalt consisting of 4 inches binder coat and 2 inches top coat is to be maintained.

• Building and Apron Concrete: The floor of the existing building and exterior concrete pads/aprons are to be maintained with a minimum of 6 inches of concrete.

• GCL and Soil: All non-paved areas (side slopes of the containment cell) of the containment cell are covered by approximately 12- inches of clean soil underlain by a GCL covering with a 6-inch sand layer between the GCL and impacted fill. All exposed environmentally clean soil/fill has been hydro seeded as an erosion control methodology. This cover system is to be maintained and monitored.

• GCL and Asphalt: All paved areas of the central section containment cell are covered by 6 inches of asphalt (4 inches binder coat and 2 inches top coat) underlain by 12-inches of clean fill, followed by a GCL covering with a 6-inch sand layer between the GCL and the impacted fill. A figure depicting the locations of each cover system type is included in the site Management Plan (SMP). The SMP outlines the procedures required to be implemented in the event a cover system is breached, penetrated or temporarily removed and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of these cover systems are provided within the SMP.

Additional engineering controls:

• The groundwater beneath the central and eastern sections of the property may not be used for potable or non-potable purposes

• The eastern and central portions of the site contain remaining impacted fill material enclosed by several types of cover systems. Any future intrusive work that will penetrate the cover systems, or encounter or disturb the remaining impacted fill, including any

modifications or repairs to the cover systems will be performed in compliance with the SMP.

• buried gas cylinders have been encountered during previous excavation activities at the site. In the event that additional cylinders are encountered during any subsurface activities, excavation will cease and the Owner's P.E. and NYSDEC will immediately be notified. All cylinders encountered will be evaluated by the Owner's P.E. and the Owner will submit a removal plan to NYSDEC for review and approval. Appropriately trained personnel will excavate and remove all cylinders within the designated work area while following all applicable federal, state, and local regulations. Removed cylinders will be properly characterized and removed from the site.

Institutional Controls (ICs)

• Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

• ECs must be operated and maintained as specified in the SMP;

• All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP;

• Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP;

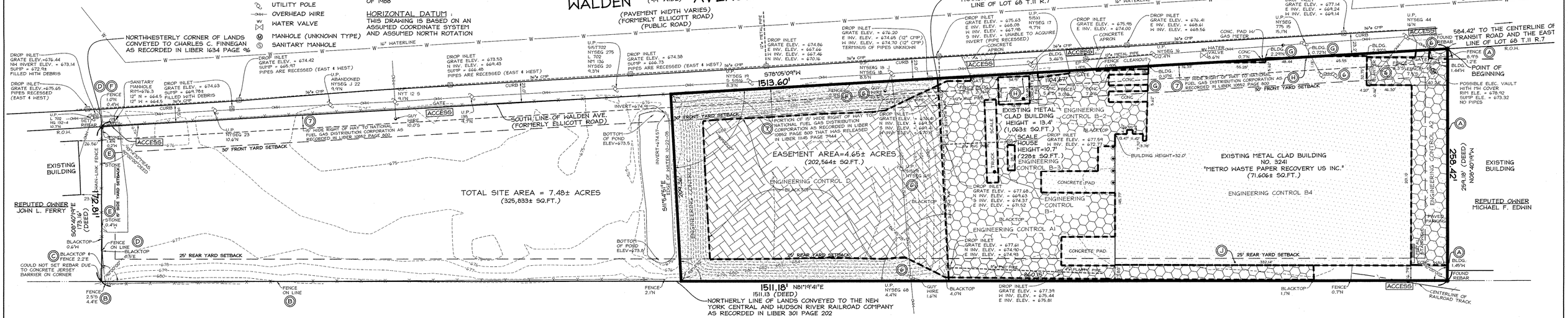
• The central and eastern portions of the property may only be used for industrial/commercial purposes provided that the long-term ECs/ICs included in the SMP are employed;

• The central and eastern portions of the property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

• All future activities on the property that will disturb remaining impacted material must be conducted in accordance with the SMP;

• Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP. Institutional Controls may not be discontinued without an amendment to or extinguishment of the Environmental Easement;

• The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable;



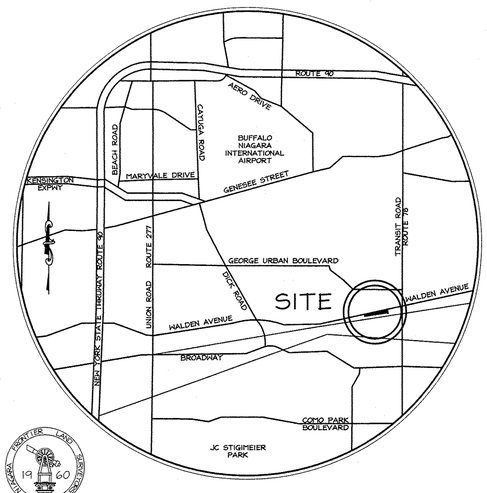
ZONING

ZONED M-1 (LIGHT INDUSTRIAL)

MINIMUM LOT AREA:	15,000 SQ.FT.
MINIMUM LOT WIDTH:	100 FEET
MINIMUM LOT DEPTH:	150 FEET
MINIMUM FRONT YARD:	30 FEET
MINIMUM SIDE YARD:	15 FEET / 30 FEET TOTAL
MINIMUM SIDE YARD:	50 FEET (ADJACENT TO ANY R-1 OR R-2 DISTRICT)
MINIMUM REAR YARD:	25 FEET
MAXIMUM HEIGHT OF BUILDINGS:	30 FEET / 2 STORIES
MAXIMUM LOT COVERAGE:	40%

POTENTIAL ENCROACHMENTS

- (A) FENCE, PAVED PARKING AND CONCRETE WALL ARE ONTO EASTERLY ADJOINER.
- (B) FENCE ALONG SOUTHERLY PROPERTY LINE IS UP TO 2.5' ONTO SOUTHERLY ADJOINER.
- (C) BLACKTOP IS 2.2' EAST ONTO PROPERTY.
- (D) FENCE ALONG WESTERLY PROPERTY LINE IS UP TO 0.4' ONTO WESTERLY ADJOINER.
- (E) STONE AREA ALONG WESTERLY PROPERTY LINE IS 0.2' TO 0.4' ONTO WESTERLY ADJOINER.
- (F) FENCE ALONG NORTHERLY PROPERTY LINE IS UP TO 1.0' INTO WALDEN AVENUE RIGHT OF WAY.
- (G) BUILDING IS 0.10' TO 2.24' NORTHERLY INTO WALDEN AVENUE RIGHT OF WAY.
- (H) BUILDINGS ARE WITHIN THE 30' FRONT SETBACK.
- (J) BUILDING IS WITHIN THE 25' REAR YARD SETBACK.



VICINITY MAP

(NOT TO SCALE)

NOTES

1) THERE ARE NO CHANGES IN STREET RIGHT-OF-WAY LINES EITHER COMPLETED OR PROPOSED TO THE BEST OF OUR KNOWLEDGE, AND AVAILABLE FROM THE CONTROLLING JURISDICTION.
2) THERE IS NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
3) THERE WAS OBSERVABLE EVIDENCE OF EARTH MOVING WORK. CURRENTLY THERE IS NO OBSERVABLE EVIDENCE OF BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE SITE.
4) THERE IS NO OBSERVABLE EVIDENCE OF SITE USE AS A CEMETERY.
5) THERE IS NO VISIBLE ABOVE GRADE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
5) THERE ARE NO STRIPED PARKING SPACES.

SCHEDULE 'B' SECTION '2'

TICOR TITLE INSURANCE COMPANY, ORDER NO.: 5008-25273
EFFECTIVE DATE: DECEMBER 30, 2008

(6) RIGHT OF WAY TO CONSTRUCT AND MAINTAIN A POLE LINE ETC. TO THE DEPEW-LANCASTER LIGHT, POWER AND CONDUIT COMPANY RECORDED IN LIBER 1924 OF DEEDS, PAGE 468. RIGHT OF WAY IS FOR UTILITY POLES, GUY WIRES AND OVERHEAD WIRES ALONG WALDEN AVENUE AND RUNNING FROM WALDEN AVENUE TO THE NEW YORK CENTRAL RAILROAD COMPANY. UTILITY POLES, GUY WIRES AND OVERHEAD WIRES ARE PLOTTED HEREON.

(7) RIGHT OF WAY TO NATIONAL FUEL GAS DISTRIBUTION CORPORATION RECORDED IN LIBER 10852 OF DEEDS, PAGE 800 ON JANUARY 28, 1994 AS PARTIALLY RELEASED BY PARTIAL RELEASE OF RIGHT OF WAY RECORDED IN LIBER 11145 OF DEEDS AT PAGE 7944 ON JUNE 4, 2008. IS PLOTTED HEREON. THE PORTION OF THE RIGHT OF WAY RELEASED IN LIBER 11145 PAGE 7944 IS THE PORTION OF THE EASEMENT WITHIN THE ENVIRONMENTAL EASEMENT AREA AND IS PLOTTED HEREON.

NOTE: SUBORDINATION AGREEMENT FOR THE ABOVE SCHEDULE 'B' SECTION '2' ITEMS WAS NOT PROVIDED TO NUSSBAUMER & CLARKE, INC. AT THE TIME OF THE SURVEY.

SCHEDULE 'A' - DEED DESCRIPTION

TICOR TITLE INSURANCE COMPANY, ORDER NO.: 5008-25273
EFFECTIVE DATE: DECEMBER 30, 2008

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD; RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1513.6 FEET TO THE NORTHWESTERLY CORNER OF LANDS CONVEYED TO CHARLES A. FINNEGAN BY GEORGE W. WICKERSHAM AND EDWARD J. HANCY, AS EXECUTORS OF THE LAST WILL AND TESTAMENT OF MARY A.P. DRAPER, DECEASED, DATED MAY 5, 1922 AND RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 1634 OF DEEDS AT PAGE 96; THENCE SOUTHERLY AT RIGHT ANGLES TO THE SOUTHERLY LINE OF WALDEN AVENUE A DISTANCE OF 173.16 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202; THENCE EASTERLY AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 1511.13 FEET; THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.18 FEET TO THE POINT OF BEGINNING.

EASEMENT AREA DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD;

RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1104.67 FEET;

THENCE SOUTHERLY FORMING AN INTERIOR ANGLE OF 90°00'00" A DISTANCE OF 209.36 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202;

THENCE EASTERLY AT AN INTERIOR ANGLE OF 93°14'32" AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 860.15 FEET;

THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.42 FEET TO THE POINT OF BEGINNING, CONTAINING 4.65 ACRES OF LAND MORE OR LESS.

SURVEYOR'S DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD;

RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1513.60 FEET TO THE NORTHWESTERLY CORNER OF LANDS CONVEYED TO CHARLES A. FINNEGAN BY GEORGE W. WICKERSHAM AND EDWARD J. HANCY, AS EXECUTORS OF THE LAST WILL AND TESTAMENT OF MARY A.P. DRAPER, DECEASED, DATED MAY 5, 1922 AND RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 1634 OF DEEDS AT PAGE 96;

THENCE SOUTHERLY FORMING AN INTERIOR ANGLE OF 93°14'32" A DISTANCE OF 172.81 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202;

THENCE EASTERLY AT RIGHT ANGLES AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 1511.18 FEET;

THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.42 FEET TO THE POINT OF BEGINNING, CONTAINING 7.48 ACRES OF LAND MORE OR LESS.

NOTE: THIS DESCRIPTION IS INTENDED TO DESCRIBE THE SAME PROPERTY AS CONVEYED IN LIBER 10926 PAGE 3284. ANGLES AND DISTANCES IN THIS DESCRIPTION DIFFER FROM THE SCHEDULE 'A' DESCRIPTION SHOWN HEREON BASED UPON BOUNDARY EVIDENCE AND CALCULATIONS IN ORDER TO CREATE A MATHEMATICAL CLOSURE.

UTILITY COMPANIES CONTACTED

TIME WARNER CABLE
(HAS RESPONDED; OVERHEAD WIRES ARE PLOTTED HEREON)

TOWN OF CHEEKTOWAGA ENGINEERING
(HAS NOT RESPONDED)

VILLAGE OF DEPEW ENGINEERING
(HAS RESPONDED; WATERLINE PLOTTED HEREON)
(SANITARY SEWER LINE IS LOCATED ALONG THE NORTHERLY SIDE OF WALDEN AVENUE, WITH THE EXCEPTION OF THE SANITARY MANHOLE AT THE NORTHWEST CORNER OF THE PROPERTY)

NEW YORK STATE ELECTRIC & GAS
(HAS RESPONDED; OVERHEAD WIRES ARE PLOTTED HEREON)

VERIZON
(HAS NOT RESPONDED)

ERIE COUNTY DEPARTMENT OF SEWERAGE MANAGEMENT
(HAS RESPONDED; DOES NOT COVER THIS PROPERTY)

ERIE COUNTY WATER AUTHORITY
(HAS NOT RESPONDED)

NOTE: ALL UNDERGROUND UTILITIES ARE APPROXIMATELY PLOTTED FROM RECORD DOCUMENTS. NO EXCAVATIONS WERE PERFORMED TO LOCATED UNDERGROUND UTILITIES.

CERTIFICATION

TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 7(A), 7(B(1)), 7(B(2)), 7(C), 8, 9, 10, 11(A), 11(B), 13, 14, 16, 17, AND 18 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF NEW YORK, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DATE:

MICHAEL J. BOROWIAK, PLS NEW YORK STATE LICENSE NO. 050147

ENGINEERING CONTROLS LEGEND

- COVER SYSTEM A - ASPHALT ONLY
- COVER SYSTEM B - BUILDING & APRON CONCRETE
- COVER SYSTEM C - GEOSYNTHETIC CLAY LINER & SOIL
- COVER SYSTEM D - GEOSYNTHETIC CLAY LINER, SOIL, & ASPHALT

NOTE: CAP AREA IS COVER SYSTEM C AND COVER SYSTEM D

AREA OF ENGINEERING CONTROLS

ENGINEERING CONTROL A1 =	0.96± ACRES	(42,021± SQ.FT.)
ENGINEERING CONTROL A2 =	0.25± ACRES	(11,047± SQ.FT.)
ENGINEERING CONTROL B1 =	0.03± ACRES	(1,196± SQ.FT.)
ENGINEERING CONTROL B2 =	0.02± ACRES	(1,063± SQ.FT.)
ENGINEERING CONTROL B3 =	0.01± ACRES	(228± SQ.FT.)
ENGINEERING CONTROL B4 =	1.77± ACRES	(77,059± SQ.FT.)
ENGINEERING CONTROL C =	0.49± ACRES	(21,181± SQ.FT)
ENGINEERING CONTROL D =	1.01± ACRES	(44,175± SQ.FT.)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

Michael J. Borowiak, P.L.S.

FLOOD NOTE

ZONE 'C' (AREAS OF MINIMAL FLOODING)

REFERENCE: F.I.R.M. (WWW.FEMA.GOV)
COMMUNITY PANEL NO: 360236 0003 B
EFFECTIVE DATE: AUGUST 3, 1981

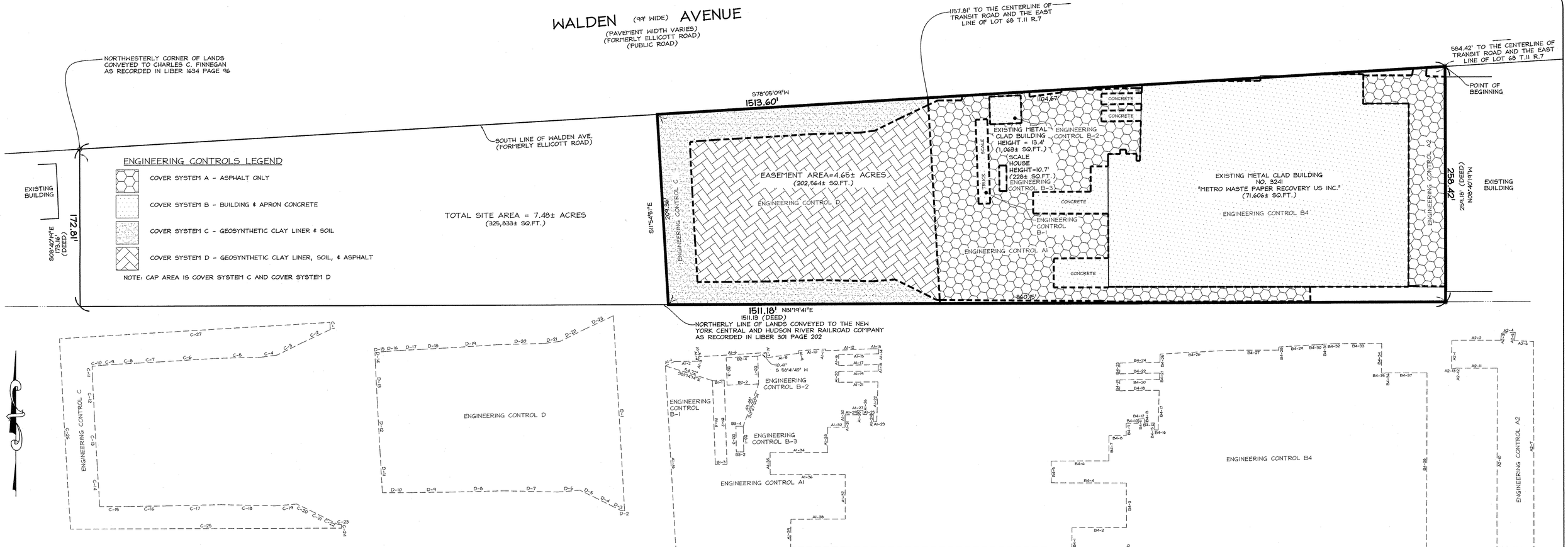
NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO ANY SURVEY, DRAWING, DESIGN, SPECIFICATION, PLAN, OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

ALTA/ACSM LAND TITLE SURVEY OF 3241 WALDEN AVENUE

PART OF LOT(S) 68
TOWNSHIP 11 RANGE 7
VILLAGE OF DEPEW
TOWN OF CHEEKTOWAGA
COUNTY OF ERIE STATE OF NEW YORK

Nussbaumer & Clarke, Inc. Engineers and Surveyors
3556 Lake Shore Road
Buffalo, New York 14219-1494
(716) 827-8000
www.nussclarke.com

DRAWN BY: MKB	REV. 07/17/09	SHEET NO. 1 OF 2
DATE: 10/22/08	JOB NO. 07J2-0481A-4	
SCALE: 1"=50'	DWG. NO. SC-3517	



ENGINEERING CONTROL C		
LINE	LENGTH	BEARING
C-1	7.84	S11°54'51"E
C-2	36.16	S62°27'42"W
C-3	29.18	S65°27'07"W
C-4	17.72	S74°14'50"W
C-5	52.62	S73°16'43"W
C-6	57.62	S77°52'21"W
C-7	25.41	S78°29'49"W
C-8	23.03	S78°29'49"W
C-9	18.40	S77°34'26"W
C-10	10.28	S74°57'44"W
C-11	10.41	S81°06'55"E
C-12	45.54	S11°27'15"E
C-13	51.47	S11°49'20"E
C-14	46.76	S11°55'32"E
C-15	31.04	N84°01'31"E
C-16	46.08	N80°51'14"E
C-17	57.54	N80°08'11"E
C-18	59.51	N80°46'28"E
C-19	24.36	N76°54'00"E
C-20	18.82	S73°52'12"E
C-21	21.50	S72°12'18"E
C-22	10.71	S71°44'01"E
C-23	3.70	N81°54'46"E
C-24	3.93	S11°54'51"E
C-25	300.48	S81°19'41"W
C-26	209.36	N11°54'51"W
C-27	300.00	N78°05'09"E

ENGINEERING CONTROL 'C' DESCRIPTION

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 1157.81 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD

THENCE S 11°54'51" E A DISTANCE OF 7.84';
THENCE S 62°27'42" W A DISTANCE OF 36.16';
THENCE S 65°27'07" W A DISTANCE OF 29.18';
THENCE S 74°14'50" W A DISTANCE OF 17.72';
THENCE S 73°16'43" W A DISTANCE OF 52.62';
THENCE S 77°52'21" W A DISTANCE OF 57.62';
THENCE S 78°29'49" W A DISTANCE OF 25.41';
THENCE S 78°29'49" W A DISTANCE OF 23.03';
THENCE S 77°34'26" W A DISTANCE OF 18.40';
THENCE S 74°57'44" W A DISTANCE OF 10.28';
THENCE S 10°06'55" E A DISTANCE OF 10.41';
THENCE S 11°27'15" E A DISTANCE OF 45.54';
THENCE S 11°49'20" E A DISTANCE OF 51.47';
THENCE S 11°55'32" E A DISTANCE OF 46.76';
THENCE N 81°11'18" E A DISTANCE OF 31.04';
THENCE N 80°51'14" E A DISTANCE OF 46.08';
THENCE N 80°08'11" E A DISTANCE OF 57.54';
THENCE N 82°48'28" E A DISTANCE OF 59.51';
THENCE N 76°54'00" E A DISTANCE OF 24.36';
THENCE S 73°52'12" E A DISTANCE OF 18.82';
THENCE S 72°12'18" E A DISTANCE OF 21.50';
THENCE S 71°44'01" E A DISTANCE OF 10.71';
THENCE N 81°54'46" E A DISTANCE OF 3.70';
THENCE S 11°54'51" E A DISTANCE OF 3.93';
THENCE S 81°19'41" W A DISTANCE OF 300.48';
THENCE N 11°54'51" W A DISTANCE OF 209.36';
THENCE N 78°05'09" E A DISTANCE OF 300.00';

ENGINEERING CONTROL D		
LINE	LENGTH	BEARING
D-1	214.58	S11°54'51"E
D-2	3.70	S81°54'46"W
D-3	10.71	N71°44'01"E
D-4	21.50	N72°12'18"W
D-5	18.82	N73°52'12"W
D-6	24.36	S76°54'00"W
D-7	59.51	S82°48'28"W
D-8	57.54	S80°08'11"W
D-9	46.08	S80°51'14"W
D-10	31.04	S81°11'18"W
D-11	46.76	N11°55'32"W
D-12	51.47	N11°49'20"W
D-13	45.54	N11°27'13"W
D-14	10.41	N10°06'55"W
D-15	10.28	N74°57'44"E
D-16	18.40	N77°34'26"E
D-17	29.03	N78°29'49"E
D-18	25.41	N78°29'49"E
D-19	57.62	N77°52'21"E
D-20	52.62	N73°16'43"E
D-21	17.72	N74°14'50"E
D-22	29.18	N65°27'07"E
D-23	36.16	N62°28'02"E

ENGINEERING CONTROL 'D' DESCRIPTION

BEGINNING AT THE INTERSECTION OF COURSE C1 AND COURSE C2 AS SHOWN ON ENGINEERING CONTROL C HEREON;

THENCE S 11°54'51" E A DISTANCE OF 214.58';
THENCE S 81°54'46" W A DISTANCE OF 3.70';
THENCE N 71°44'01" W A DISTANCE OF 10.71';
THENCE N 72°12'18" W A DISTANCE OF 21.50';
THENCE N 73°52'12" W A DISTANCE OF 18.82';
THENCE S 76°54'00" W A DISTANCE OF 24.36';
THENCE S 82°48'28" W A DISTANCE OF 59.51';
THENCE S 80°08'11" W A DISTANCE OF 57.54';
THENCE S 80°51'14" W A DISTANCE OF 46.08';
THENCE S 81°11'18" W A DISTANCE OF 31.04';
THENCE N 11°55'32" W A DISTANCE OF 46.76';
THENCE N 11°49'20" W A DISTANCE OF 51.47';
THENCE N 11°27'13" W A DISTANCE OF 45.54';
THENCE N 10°06'55" W A DISTANCE OF 10.41';
THENCE N 74°57'44" E A DISTANCE OF 10.28';
THENCE N 77°34'26" E A DISTANCE OF 18.40';
THENCE N 78°29'49" E A DISTANCE OF 23.03';
THENCE N 78°29'49" E A DISTANCE OF 25.41';
THENCE N 77°52'21" E A DISTANCE OF 57.62';
THENCE N 73°16'43" E A DISTANCE OF 52.62';
THENCE N 74°14'50" E A DISTANCE OF 17.72';
THENCE N 65°27'07" E A DISTANCE OF 29.18';
THENCE N 62°28'02" E A DISTANCE OF 36.16' TO THE POINT OR PLACE OF BEGINNING;

ENGINEERING CONTROL A1		
LINE	LENGTH	BEARING
A1-1	11.31	N55°55'51"E
A1-2	26.28	N81°16'18"E
A1-3	2.84	N08°19'21"E
A1-4	1.23	N18°28'31"W
A1-5	1.22	N29°18'28"W
A1-6	75.39	N78°05'09"E
A1-7	5.60	S11°57'18"E
A1-8	35.72	N73°48'30"E
A1-9	2.84	N17°27'25"E
A1-10	30.14	N78°05'09"E
A1-11	1.92	S50°08'18"E
A1-12	52.62	N79°11'07"E
A1-13	6.63	N83°01'49"E
A1-14	5.40	S06°58'11"E
A1-15	44.50	S82°27'43"E
A1-16	11.90	S08°24'14"E
A1-17	44.20	N80°22'43"E
A1-18	7.08	S06°58'11"E
A1-19	43.93	S80°56'01"E
A1-20	11.90	S07°57'20"E
A1-21	43.73	N80°56'01"E
A1-22	43.50	S06°58'11"E
A1-23	3.78	S80°54'26"E
A1-24	7.70	N01°05'34"E
A1-25	11.42	S80°54'26"E
A1-26	4.61	N01°05'34"E
A1-27	6.55	S80°54'26"E
A1-28	4.61	S01°05'34"E
A1-29	13.47	S80°54'26"E
A1-30	7.43	S01°05'34"E
A1-31	6.16	S08°43'57"E
A1-32	19.20	S81°34'01"W
A1-33	27.75	S08°34'45"E
A1-34	63.64	S81°24'49"W
A1-35	23.84	S01°07'56"E
A1-36	82.79	N81°36'56"E
A1-37	48.84	S08°43'57"E
A1-38	60.13	S81°08'46"W
A1-39	31.82	S08°13'06"E
A1-40	60.04	N81°31'46"E
A1-41	0.88	N16°20'26"E
A1-42	223.09	N81°30'25"E
A1-43	16.07	S01°34'15"E
A1-44	221.48	S81°27'02"W
A1-45	188.90	S82°03'04"W
A1-46	214.58	N11°54'51"W

ENGINEERING CONTROL 'A1' DESCRIPTION

BEGINNING AT THE INTERSECTION OF COURSE C1 AND COURSE C2 AS SHOWN ON ENGINEERING CONTROL C HEREON;

THENCE N 55°55'51" E A DISTANCE OF 11.31';
THENCE N 81°16'18" E A DISTANCE OF 26.28';
THENCE N 08°19'21" E A DISTANCE OF 2.84';
THENCE N 18°28'31" W A DISTANCE OF 1.23';
THENCE N 29°18'28" W A DISTANCE OF 1.22';
THENCE N 78°05'09" E A DISTANCE OF 75.39';
THENCE S 11°57'18" E A DISTANCE OF 5.60';
THENCE N 73°48'30" E A DISTANCE OF 35.72';
THENCE N 17°27'25" E A DISTANCE OF 2.84';
THENCE N 78°05'09" E A DISTANCE OF 30.14';
THENCE S 50°08'18" E A DISTANCE OF 1.92';
THENCE N 79°11'07" E A DISTANCE OF 52.62';
THENCE N 83°01'49" E A DISTANCE OF 6.63';
THENCE S 06°58'11" E A DISTANCE OF 5.40';
THENCE S 82°27'43" E A DISTANCE OF 44.50';
THENCE S 08°24'14" E A DISTANCE OF 11.90';
THENCE N 80°22'43" E A DISTANCE OF 44.20';
THENCE S 06°58'11" E A DISTANCE OF 7.08';
THENCE S 80°56'01" E A DISTANCE OF 43.93';
THENCE S 07°57'20" E A DISTANCE OF 11.90';
THENCE N 80°56'01" E A DISTANCE OF 43.73';
THENCE N 06°58'11" E A DISTANCE OF 43.50';
THENCE S 80°54'26" E A DISTANCE OF 3.78';
THENCE N 01°05'34" E A DISTANCE OF 7.70';
THENCE S 80°54'26" E A DISTANCE OF 11.42';
THENCE S 01°05'34" E A DISTANCE OF 4.61';
THENCE S 80°54'26" E A DISTANCE OF 6.55';
THENCE N 01°05'34" E A DISTANCE OF 4.61';
THENCE S 80°54'26" E A DISTANCE OF 13.47';
THENCE S 01°05'34" E A DISTANCE OF 7.43';
THENCE S 08°43'57" E A DISTANCE OF 6.16';
THENCE S 81°34'01" W A DISTANCE OF 19.20';
THENCE S 08°34'45" E A DISTANCE OF 27.75';
THENCE S 81°24'49" W A DISTANCE OF 63.64';
THENCE S 01°07'56" E A DISTANCE OF 23.84';
THENCE N 81°36'56" E A DISTANCE OF 82.79';
THENCE S 08°43'57" E A DISTANCE OF 48.84';
THENCE S 81°08'46" W A DISTANCE OF 60.13';
THENCE S 08°13'06" E A DISTANCE OF 31.82';
THENCE N 81°31'46" E A DISTANCE OF 60.04';
THENCE N 16°20'26" E A DISTANCE OF 0.88';
THENCE N 81°30'25" E A DISTANCE OF 223.09';
THENCE S 10°34'15" E A DISTANCE OF 16.07';
THENCE S 81°27'02" W A DISTANCE OF 221.48';
THENCE S 82°03'04" W A DISTANCE OF 188.90';
THENCE N 11°54'51" W A DISTANCE OF 214.58';
TO THE POINT OR PLACE OF BEGINNING;

EXCEPTING HERE FROM ENGINEERING CONTROL 'B1', ENGINEERING CONTROL 'B2' AND ENGINEERING CONTROL 'B3' AS DESCRIBED HEREON.

ENGINEERING CONTROL B1		
LINE	LENGTH	BEARING
B1-1	12.98	N78°16'06"E
B1-2	92.42	S10°31'38"E
B1-3	12.94	S78°16'57"W
B1-4	92.44	N10°34'39"W

ENGINEERING CONTROL B2		
LINE	LENGTH	BEARING
B2-1	30.48	S10°26'14"E
B2-2	34.90	S71°16'32"W
B2-3	30.46	N10°27'04"W
B2-4	34.91	N79°14'15"E

ENGINEERING CONTROL B3		
LINE	LENGTH	BEARING
B3-1	28.12	S09°33'11"E
B3-2	8.12	S81°41'39"W
B3-3	28.14	N09°32'27"W
B3-4	8.11	N81°26'17"E

ENGINEERING CONTROL 'B1' DESCRIPTION

COMMENCING AT THE INTERSECTION OF COURSE A1-1 AND A1-46 AS SHOWN ON ENGINEERING CONTROL A1 HEREON;

THENCE S 81°41'41" E A DISTANCE OF 54.72' TO THE POINT OF BEGINNING;

THENCE N 79°16'06" E A DISTANCE OF 12.98';
THENCE S 10°31'38" E A DISTANCE OF 92.42';
THENCE S 79°10'57" W A DISTANCE OF 12.94';
THENCE N 10°34'39" W A DISTANCE OF 92.44' TO THE POINT OR PLACE OF BEGINNING;

ENGINEERING CONTROL 'B2' DESCRIPTION

COMMENCING AT THE INTERSECTION OF COURSE A1-6 AND COURSE A1-7 AS SHOWN ON ENGINEERING CONTROL A1 HEREON;

THENCE S 58°41'40" W A DISTANCE OF 10.41' TO THE POINT OF BEGINNING;

THENCE S 10°26'14" E A DISTANCE OF 30.48';
THENCE S 79°16'32" W A DISTANCE OF 34.90';
THENCE N 10°27'04" W A DISTANCE OF 30.46';
THENCE N 79°14'15" E A DISTANCE OF 34.91' TO THE POINT OR PLACE OF BEGINNING;

ENGINEERING CONTROL 'B3' DESCRIPTION

COMMENCING AT THE INTERSECTION OF CURSE B2-1 AND B2-2 AS SHOWN ON ENGINEERING CONGROL B2 HEREON;

THENCE S 11°27'00" W A DISTANCE OF 49.49' TO THE POINT OF BEGINNING;

THENCE S 09°33'11" E A DISTANCE OF 28.12';
THENCE S 81°41'39" W A DISTANCE OF 8.12';
THENCE N 09°32'27" W A DISTANCE OF 28.14';
THENCE N 81°26'17" E A DISTANCE OF 8.11' TO THE POINT OR PLACE OF BEGINNING;

ENGINEERING CONTROL B4		
LINE	LENGTH	BEARING
B4-1	31.82	N09°13'06"W
B4-2	60.13	N81°08'46"E
B4-3	48.84	N08°43'57"W
B4-4	27.75	N08°34'45"W
B4-5	19.20	N81°34'01"E
B4-6	63.64	N81°24'49"E
B4-7	27.75	N08°34'45"W
B4-8	19.20	N81°34'01"E
B4-9	13.59	N09°55'46"W
B4-10	13.47	N80°54'26"E
B4-11	4.61	N01°05'34"W
B4-12	6.55	N80°54'26"E
B4-13	4.61	S09°05'34"E
B4-14	11.42	N80°54'26"E
B4-15	7.70	S09°05'34"E
B4-16	3.78	N80°54'26"E
B4-17	43.50	S06°58'11"E
B4-18	43.73	S80°56'01"E
B4-19	11.90	N07°57'20"W
B4-20	43.93	N80°56'01"E
B4-21	7.08	S06°58'11"E
B4-22	44.20	S80°22'43"W
B4-23	11.90	N08°24'14"W
B4-24	44.50	N80°27'43"E
B4-25	5.40	S06°58'11"E
B4-26	76.05	N78°20'31"E
B4-27	55.28	N81°16'47"E
B4-28	3.33	N08°43'13"W
B4-29	41.16	N78°05'09"E
B4-30	7.30	N81°16'47"E
B4-31	0.41	N08°27'00"W
B4-32	13.00	N78°05'09"E
B4-33	52.57	N81°16'17"E
B4-34	32.76	S08°04'31"E
B4-35	4.20	N81°33'00"E
B4-36	0.46	N08°27'00"W
B4-37	46.30	N81°33'00"E
B4-38	201.10	S08°27'00"E
B4-39	332.14	S81°30'27"W
B4-40	0.88	S16°16'33"E
B4-41	60.04	S81°31'46"W

ENGINEERING CONTROL 'B4' DESCRIPTION

BEGINNING AT THE INTERSECTION OF COURSE A1-39 AND COURSE A1-40 AS SHOWN ON ENGINEERING CONTROL A1 HEREON;

THENCE N 08°13'06" W A DISTANCE OF 31.82';
THENCE N 81°08'46" E A DISTANCE OF 60.13';
THENCE N 08°43'57" W A DISTANCE OF 48.84';
THENCE N 81°38'54" W A DISTANCE OF 82.79';
THENCE N 01°07'56" W A DISTANCE OF 23.84';
THENCE N 81°24'49" E A DISTANCE OF 63.64';
THENCE N 08°34'45" W A DISTANCE OF 27.75';
THENCE N 81°34'01" E A DISTANCE OF 19.20';
THENCE N 08°55'46" W A DISTANCE OF 13.59';
THENCE N 80°54'26" E A DISTANCE OF 13.47';
THENCE N 09°05'34" E A DISTANCE OF 4.61';
THENCE N 80°54'26" E A DISTANCE OF 6.55';
THENCE S 09°05'34" E A DISTANCE OF 4.61';
THENCE N 80°54'26" E A DISTANCE OF 11.42';
THENCE S 09°05'34" E A DISTANCE OF 7.70';
THENCE N 80°54'26" E A DISTANCE OF 3.78';
THENCE N 06°58'11" W A DISTANCE OF 43.50';
THENCE N 80°56'01" E A DISTANCE OF 43.73';
THENCE N 07°57'20" W A DISTANCE OF 11.90';
THENCE N 80°56'01" E A DISTANCE OF 43.93';
THENCE N 06°58'11" W A DISTANCE OF 7.08';
THENCE N 80°24'53" E A DISTANCE OF 44.20';
THENCE N 08°24'14" W A DISTANCE OF 11.90';
THENCE N 82°43'53" E A DISTANCE OF 44.50';
THENCE S 81°33'00" E A DISTANCE OF 8.98';
THENCE N 78°20'31" E A DISTANCE OF 76.05';
THENCE N 81°16'47" E A DISTANCE OF 55.28';
THENCE N 08°43'13" W A DISTANCE OF 3.33';
THENCE N 81°29'58" E A DISTANCE OF 41.18';
THENCE N 81°16'47" E A DISTANCE OF 7.30';
THENCE N 08°27'00" W A DISTANCE OF 0.41';
THENCE N 78°05'09" E A DISTANCE OF 13.00';
THENCE N 81°16'17" E A DISTANCE OF 52.57';
THENCE S 08°04'31" E A DISTANCE OF 32.75';
THENCE N 81°33'00" E A DISTANCE OF 4.20';
THENCE N 08°27'00" W A DISTANCE OF 0.46';
THENCE N 81°33'00" E A DISTANCE OF 46.30';
THENCE S 08°27'00" E A DISTANCE OF 201.10';
THENCE S 81°30'27" W A DISTANCE OF 332.14';
THENCE S 16°16'33" W A DISTANCE OF 0.88';
THENCE S 81°31'46" W A DISTANCE OF 60.04' TO THE POINT OR PLACE OF BEGINNING;

ENGINEERING CONTROL A2		
LINE	LENGTH	BEARING
A2-1	230.13	S08°40'19"E
A2-2	35.65	S82°04'38"W
A2-3	5.38	S81°33'00"W
A2-4	200.49	N08°27'00"W
A2-5	46.30	S81°33'00"W
A2-6	0.46	S08°27'00"E
A2-7	4.20	S81°33'00"W
A2-8	31.25	N82°04'38"E
A2-9	54.11	N81°28'18"E
A2-10	7.76	N00°49'50"W
A2-11	14.98	N78°05'09"E
A2-12	9.27	S04°17'42"E
A2-13	21.03	N84°00'13"E

ENGINEERING CONTROL 'A2' DESCRIPTION

BEGINNING AT THE INTERSECTION OF COURSE B4-34 AND COURSE B4-35 AS SHOWN ON ENGINEERING CONTROL B4 HEREON;

THENCE S 08°40'19" E A DISTANCE OF 230.13';
THENCE S 82°04'38" W A DISTANCE OF 35.65';
THENCE S 81°33'00" W A DISTANCE OF 5.38';
THENCE N 08°27'00" W A DISTANCE OF 200.49';
THENCE S 81°33'00" W A DISTANCE OF 46.30';
THENCE S 08°27'00" E A DISTANCE OF 0.46';
THENCE S 81°33'00" W A DISTANCE OF 4.20';
THENCE N 08°04'31" W A DISTANCE OF 31.25';
THENCE N 81°28'18" E A DISTANCE OF 54.11';
THENCE N 00°49'50" W A DISTANCE OF 7.76';
THENCE N 78°05'09" E A DISTANCE OF 14.98';
THENCE S 04°17'42" E A DISTANCE OF 9.27';
THENCE N 84°00'13" E A DISTANCE OF 21.03' TO THE POINT OR PLACE OF BEGINNING.

AREA OF ENGINEERING CONTROLS

ENGINEERING CONTROL A1 = 0.96± ACRES (42,021± SQ.FT.)
ENGINEERING CONTROL A2 = 0.25± ACRES (11,047± SQ.FT.)
ENGINEERING CONTROL B1 = 0.03± ACRES (1,196± SQ.FT.)
ENGINEERING CONTROL B2 = 0.02± ACRES (1,063± SQ.FT.)
ENGINEERING CONTROL B3 = 0.01± ACRES (228± SQ.FT.)
ENGINEERING CONTROL B4 = 1.77± ACRES (77,059± SQ.FT.)
ENGINEERING CONTROL C = 0.49± ACRES (21,181± SQ.FT)
ENGINEERING CONTROL D = 1.01± ACRES (44,175± SQ.FT.)

EASEMENT AREA DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE TOWN OF CHEEKTOWAGA, VILLAGE OF DEPEW, COUNTY OF ERIE AND STATE OF NEW YORK, BEING PART OF LOT 68, TOWNSHIP 11, RANGE 7 OF THE HOLLAND LAND COMPANY'S SURVEY, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT IN THE SOUTHERLY LINE OF THE ELLICOTT ROAD, NOW KNOWN AS WALDEN AVENUE AT A DISTANCE OF 584.42 FEET WESTERLY FROM THE POINT OF THE "TRANSIT LINE" OR THE CENTERLINE OF TRANSIT ROAD;

RUNNING THENCE WESTERLY ALONG THE SAID SOUTHERLY LINE OF WALDEN AVENUE 1104.67 FEET;

THENCE SOUTHERLY FORMING AN INTERIOR ANGLE OF 90°00'00" A DISTANCE OF 209.36 FEET TO THE NORTHERLY LINE OF LANDS CONVEYED TO THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY BY DEED RECORDED IN ERIE COUNTY CLERK'S OFFICE IN LIBER 301 OF DEEDS AT PAGE 202;

THENCE EASTERLY AT AN INTERIOR ANGLE OF 93°14'32" AND ALONG THE NORTH LINE OF LANDS SO CONVEYED TO AFORESAID RAILROAD BY AFORESAID DEED 860.15 FEET;

THENCE NORTHERLY IN A STRAIGHT LINE AT RIGHT ANGLES WITH THE PRECEDING COURSE 258.42 FEET TO THE POINT OF BEGINNING, CONTAINING 4.65 ACRES OF LAND MORE OR LESS.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO ANY SURVEY, DRAWING, DESIGN, SPECIFICATION, PLAN, OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Association Inc.
MEMBER

ALTA/ACSM LAND TITLE SURVEY
OF
3241 WALDEN AVENUE

PART OF LOT(S) 68
TOWNSHIP 11 RANGE 7
VILLAGE OF DEPEW
TOWN OF CHEEKTOWAGA
COUNTY OF ERIE STATE OF NEW YORK

Nussbaumer & Clarke, Inc.
Engineers and Surveyors
3556 Lake Shore Road
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www.nussclarke.com

DRAWN BY: MKB	REV. 07/17/09	SHEET NO. 2 OF 2
DATE: 10/22/08	JOB NO. 07J2-0481A-4	
SCALE: 1"=50'	DWG. NO. SC-3517	