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December 4, 2012

NY02-927-10

Ms. Dan Harkay
United States Environmental Protection Agency
Region II Response and Prevention Branch
2890 Woodbridge Ave, Building 205, MS-211
Edison, NJ 08837-3679

RE: 3241 Walden Avenue ROW Project Number CERCLA 02-2012-2007
Depew, New York

Dear Mr. Harkay:

Please find enclosed two (2) hard copies and two (2) discs of the revised Removal Action Report (Report) for the 3241 Walden Avenue Right-of Way (ROW) project. This Report summarizes the actions taken to complete the Administrative Settlement Agreement on Consent for Removal Action (Agreement and Order) referenced above between the United States Environmental Protection Agency (EPA) and NL Industries, Inc. (Respondent). The Report was revised based on EPA's December 3, 2012 comments.

Consistent with the Work Plan dated July 2012, turf establishment has been completed on the ROW and erosion and sediment controls have been removed from the Site. Please note the Respondent has successfully completed all obligations under the Agreement and Order.

Following your receipt and review of this Report, we request that EPA provide written approval that the Work under the Agreement and Order has been fully satisfied.

If you have any questions, please call me at (610) 840-9159 or Chris Reitman at (610) 840-9123.

Sincerely,

ADVANCED GEOSERVICES

Kevin O'Rourke
Project Coordinator

KO:vm

Enclosures

cc: Chris Reitman, Advanced GeoServices
Kevin Lombardozzi, NL Industries

F:\Projects\2002\NY02927-Norampac Site\Sec Files\2012\Correspondence\Completion Report Cover Revised.docx

166593

NL INDUSTRIES, INC.
THREE LINCOLN CENTRE
5430 LBJ FREEWAY
SUITE 1700
DALLAS, TEXAS 75240-2697

TELEPHONE: 972.233.1700 TELEPHONE FACSIMILE: 972..934.5358

Kevin Lombardozzi
Director, Environmental Management
(972) 448-1480

October 15, 2012

Ms. Arlene Anderson
US EPA Region II Response and Prevention Branch
2890 Woodbridge Ave, Building 205, MS-211
Edison, NJ 08837-3679

Re: 3241 Walden Avenue ROW Project Number CERCLA 02-2012-2007
Depew, New York

Dear Ms. Anderson,

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Kevin Lombardozzi

Enclosure

cc: Christopher T. Reitman, Advanced GeoServices
Kevin O'Rourke, Advanced GeoServices

REMOVAL ACTION REPORT
FOR
3241 WALDEN AVENUE RIGHT-OF-WAY
DEPEW, NEW YORK

Prepared for:

NL INDUSTRIES, INC.

REMOVAL ACTION REPORT
FOR
3241 WALDEN AVENUE RIGHT-OF-WAY
DEPEW, NEW YORK

Prepared for:

NL INDUSTRIES, INC.

Prepared by:

ADVANCED GEOSERVICES ENGINEERING P.C.

Project No. NY02-927
October 2012
Revised December 2012

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1.0 INTRODUCTION

This Removal Action Report (Report) has been developed by Advanced GeoServices Engineering P.C. (Advanced GeoServices) on behalf of NL Industries, Inc. (NL), the Respondent, and describes the completed remedial activities for the Walden Avenue Right-of-Way (ROW) at 3241 Walden Avenue, in the Village of Depew, New York (Site). A Site Location Map is provided as Figure 1-1. This Report is prepared to comply with the Administrative Order on Consent (AOC) between NL and the United States Environmental Protection Agency (EPA) Number CERCLA-02-2012-2007. This Report describes the work performed to meet the requirements of the AOC.

1.1 SITE DESCRIPTION AND BACKGROUND

The ROW is located on the south side of Walden Avenue and is approximately 25 feet wide and approximately 1,500 feet long, as shown on the As-Built survey drawing provided with this Report. Soil sampled by others within the ROW showed elevated lead concentrations.

The ROW currently is vacant and was primarily covered by grass. Portions of the ROW are paved with asphalt and/or concrete and are used by Cascades Recovery Inc., (Cascades) a subsidiary of Metro Waste Paper Recovery, as driveway(s)/entranceway(s). Pre-Construction photographs of the ROW are provided in Appendix A - Photograph Log.

Significant utilities exist on all or part of the ROW including gas, water, stormwater, sanitary sewer, overhead electric, and underground electric.

1.2 SUMMARY OF WORK COMPLETED

The work completed to implement the Multi-Layer Permeable Cap (Cap) is summarized below and more fully described in the remainder of this Report:

- Utility Verification and Surveying;
- Air Monitoring and Dust Suppression;
- Removal (mowing) of Existing Vegetation;
- Erosion and Sediment Control Installation;
- Dust Suppression (moistened soil);
- Regrading (cut/fill) of ROW;
- Installation of Geogrid;
- Installation of Permeable Grass Paver;
- Placement of Topsoil; and
- Turf establishment.

2.0 PERFORMANCE OF WORK

2.1 PROPERTY ACCESS

New York State Department of Transportation (NYSDOT), provided access to EPA, NL and its representatives, and the remedial contractor to the Site to perform the Work. Notification was also provided to Cascades Recovery Inc. of the planned activities, since the activities were planned immediately in front of their property.

2.2 SITE PREPARATION ACTIVITIES

2.2.1 Notification/Coordination

Prior to the start of remediation activities, Advanced GeoServices notified and coordinated with NYSDOT, the Village of Depew, and Cascades Recovery Inc. to ensure appropriate control measures were in place to protect the public prior to commencement of construction activities.

2.2.2 Permitting

In order to complete the Work, a Highway Occupancy Permit was required by NYSDOT. Environmental Restoration Inc. (ERI) submitted the application and approval was received on August 9, 2012. As required by the permit and due to the lack of shoulder on Walden Avenue, the eastbound right lane of Walden Avenue was closed daily during construction activities beginning on August 23, 2012. The lane was reopened daily at 3 PM. A copy of the approved permit is provided in Appendix B.

2.2.3 Pre-Construction Meeting

A Pre-Construction Meeting was held at the Site on August 16, 2012. Representatives from EPA, NL, Advanced GeoServices and ERI attended the meeting. The group also met with Tom

Derkovitz, the Plant Manager of Cascades and provided a general description of the planned activities; contact information was exchanged between all parties. During the Site walk, minor concerns were identified that would need to be addressed during construction and are discussed in Section 3.2.1 Modifications/Improvements

2.2.4 Utility Verification

Prior to the start of remedial activities, ERI contacted Dig Safely for utility identification (underground, surface and above-ground) and coordinated with NYSDOT, the property owner. Care was taken to protect all utilities during operations and no utilities were damaged.

2.2.5 Mobilization

ERI mobilized to the Site on August 17, 2012, and mowed the ROW to prepare for excavation. Due to concerns with the topsoil source, ERI demobilized and remobilized on August 23, 2012 to begin remedial activities. Advanced GeoServices was onsite during all construction activities to perform regulatory communication, oversight and air monitoring activities.

2.2.6 Delineation of Work Zone

The contractor delineated the Exclusion Zone (EZ), with temporary fencing to restrict access to the Site on the eastern and western boundaries. Access to the EZ was limited to the project personnel. Orange safety fencing and signage were installed during non-working hours at locations at the Site appropriate to deter pedestrian access.

2.3 CONSTRUCTION ACTIVITIES

2.3.1 Erosion and Sediment Control

Erosion and sediment (E&S) controls were installed by ERI and reviewed by Advanced GeoServices prior to the start of soil disturbance activities. E&S controls consisted of Filtrexx® Soxx™ (8-inch silt socks) installed along Walden Avenue and surrounding interior stormwater inlets or other areas designated by Advanced GeoServices. Inlet filter bags were also installed in the stormwater inlets, as a secondary measure, downgradient of disturbed soils. No observed erosion or offsite soil migration occurred during the construction.

2.3.2 Air Monitoring and Dust Suppression

2.3.2.1 **Air Monitoring**

2.3.2.1.1 Baseline and Action Level

Prior to excavation activities, Advanced GeoServices performed baseline air monitoring for three days between August 16 and August 18, 2012. Two air monitors were set up within the ROW and ran approximately 8 hours each day. The air monitors used on the project were Thermo MIE DR-4000 manufactured by Thermo Scientific. The monitors were placed within environmental enclosures on tripods. The data was then downloaded and the average of the three days was determined. The action level total suspended particulates was calculated using procedures identified in the Work Plan and was determined to be 71.41 ug/m^3. The action level determination calculation is provided in Appendix C - Baseline Air Monitoring.

2.3.2.1.2 Construction

To confirm and document that the dust control measures were effective during soil disturbance activities, real-time particulate air monitoring was performed throughout project activities by Advanced GeoServices. One air monitor was placed upwind and one was placed downwind of the planned work area for that day. The locations of the monitors were determined by the wind direction each morning. Typically, the prevailing wind direction was to the northeast. Advanced GeoServices visually reviewed the air monitors periodically during the work day and downloaded the data at the end of the work day. If any exceedances of the action level for total suspended particulates of 71.41 ug/m^3 were identified, Site conditions were reviewed and additional dust suppression activities were performed as necessary. Air monitoring results for each day are included in the respective Daily Field Reports provided in Appendix D - Reporting.

There were four instances where the downwind air monitor exceeded the action level:

- August 28: No activity was being performed at the time. The exceedances were attributed to damp conditions as the monitor immediately showed an exceedance when engaged.

- August 30: Soil disturbance was being performed with dust suppression. No visible dust was observed. The exceedance was attributed to traffic and equipment exhaust.

- September 4: The monitor had exceeded the action level prior to construction activities. Rain had just ceased before the air monitors were engaged. The exceedance was attributed to high levels of humidity.

- September 5: Similar to September 4, the monitor had exceeded the action prior to construction activities. Again, the exceedance was attributed to high levels of humidity.

2.3.2.2 **Dust Suppression**

Prior to impacted soil disturbance activities each day, ERI moistened the soil with water using a pull behind tank and hose in areas that would be disturbed. Additional watering was conducted on an as needed basis to control dust depending on the weather conditions. No dust issues were observed during construction.

2.3.3 Grading (cut/fill)

The installation of the Cap required minor grading of existing soil materials. These regraded materials were placed in low areas of the ROW under the Cap. In order to provide positive flow to the drop inlets, the length of the ROW was divided into four types of grading scenarios. A brief description of the four types of grading scenarios are provided below. A modification for the western area of the Site along the fence line was proposed and approved by EPA. This modification is discussed further in Section 3.2.1. No offsite disposal of any soils was necessary as all soils were placed under the Cap.

- Type 1: Standard Tapered Soil Section - These areas require a 2-inch removal at the curb and fenceline in order to place the Cap. The 2-inch excavations were tapered to meet existing grade and allow placement of the small amount of removed soil prior to Cap installation.

- Type 2: ROW Inlet Drain Section - These areas contain the drop inlets within the ROW. These areas also require a 2-inch removal at the curb and fenceline. Additionally, a 2-inch removal was performed to allow positive flow to the inlets.

- Type 3: Drain to Curb Section - These areas required a 2-inch removal along the entire width prior to Cap placement. Grading was performed so that the surface water flowed directly to the curb drop inlet.

- Type 4: Drain to Street Section - This area is located adjacent to the Metro-Waste building. A 2-inch excavation was required along the curb. However, as the existing grades adjacent to the building were significantly higher in elevation, no excavation in other areas would be required prior to the placement of the Cap. This type of grading promotes surface water sheet flow to the curb inlets.

2.3.4 Installation of Multi-Layer Permeable Cap

The Cap consists from bottom to top of a geogrid followed by a permeable grass paver filled with topsoil and an additional layer of topsoil to promote turf establishment. Figure 2-1 provides a cross-section of the Cap.

2.3.4.1 **Geogrid**

Following excavation and final grading of the ROW, Synteen SR-18 geogrid was placed over impacted materials. The geogrid was rolled out and anchored in place using metal U-shaped anchor pins. Additionally, the geogrid was used for temporary erosion control at the end of each work day and over weekends.

2.3.4.2 **Permeable Grass Paver**

The second layer of the Cap is a permeable grass paver that was placed over the geogrid. ERI installed the NDS EZ Roll™ grass pavers in 20-foot sections the width of the ROW for ease of removal and replacement during subsequent ROW utility work. Twelve-inch long galvanized nails were used to secure the pavers through the geogrid into the subgrade. One-half inch rebar with flat, colored caps were installed along the curb line at the 20-foot break to allow future utility work to identify the paver sections.

2.3.4.3 **Stone Placement**

Areas along driveways utilized a modified stone instead of topsoil approximately 18 inches from the asphalt or concrete. Geogrid and pavers were installed approximately two inches below the final grade consistent with the remaining areas. The most western driveway utilized by delivery tractor-trailers was remediated with additional excavation (approximately 6 inches) below the geogrid/paver placement as requested by EPA. The area of stone was extended from two to five feet on the western end of the driveway to accommodate trucks traversing the curbline.

2.3.4.4 **Topsoil**

Manufactured blended topsoil was imported from a local source by ERI's subcontractor Rich's Sports Fields. A topsoil sample was collected and submitted by ERI to Test America Buffalo for laboratory analysis of metals, pesticides, herbicides, polychlorinated biphenyls (PCBs), Volatile Organic Compounds (VOCS), and Semivolatile Organic Compounds (SVOCs). The analysis results were compared to Table 375-6.8(a), NYSDEC Unrestricted Use Soil Cleanup Objectives and were below the requirements. In addition to chemical analysis the topsoil was tested for organic content which resulted in 7.5% of organic matter in the topsoil, above the requirement of 2%. Analytical results are provided in Appendix E.

Topsoil was brought to the Site by triaxle truck, dumped and spread over the paver. ERI graded/spread the topsoil with small low ground pressure equipment and raked it into place. The topsoil placed within the paver and a minimum of one-inch above was loosened and scarified prior to hydroseeding. In most areas the soil was in excess of the specified 1 inch cover.

2.3.4.5 **Seeding, Mulch and Fertilization**

ERI elected to use the approved NYSDOT Kwik Green Seed Mix obtained from Preferred Seed Co. of Buffalo, NY. The seed mix placed is a mix of annual and perennial seed mixes to establish a quick growth for erosion control and provide sustained growth. Rich's Sports Fields

performed the hydroseeding. The hydro-seed mix consisted of the seed, mulch, and required fertilizer.

2.3.4.6 **Erosion Control Mat**

Following hydroseeding, ERI installed American Excelsior Company Curlex® I erosion control mat (ECM). The ECM was installed on all hydroseeded areas and anchored into place using metal U-shaped pins. The ECM will remain in place and will naturally degrade.

2.4 SITE INSPECTIONS

During construction activities Site inspections from various entities were performed.

- New York Department of Environmental Conservation (NYSDEC): Anthony Lopez visited the Site on August 30, 2012 to observe the placement of the Cap and to see how it was constructed. No concerns were noted.

- NYSDOT: Alfred Oyoyo from NYSDOT visited the Site on August 17, August 23, August 29, September 13 and September 14, 2012. No concerns were noted.

- EPA provided oversight and performed periodic inspections of the construction. No concerns were noted in addition to the modifications discussed in Section 3.2.1. EPA was on-site on the following dates:

    - August 15 through 17, 2012
    - August 27 through 29, 2012
    - September 12 through 14, 2012

- Cascades: Tom Derkovitz was onsite periodically throughout the project and did not report any concerns with the construction. Unloading of project equipment and materials and the placement of a temporary sanitary facility were coordinated with Cascades.

2.5 HEALTH AND SAFETY

All work was performed in accordance with ERI's Health and Safety Plan (HASP) developed by Cocciardi Associates of Mechanicsburg, Pennsylvania. ERI had daily tailgate meetings so that Site personnel were aware of any hazards and daily work activities.

Boot washes were used during excavation activities. All equipment used that came into contact with the impacted material was decontaminated by dry methods and the removed material was placed below the cap.

Safety fencing was placed at the western and eastern ends of the Site to deter pedestrian traffic during working and non-working hours. At the end of each day all exposed impacted material was covered with geogrid to prevent dust and contact. At the completion of Cap installation activities the fence was removed and "Keep Off the Grass" signs were placed at every driveway and along the curb line.

No Health and Safety issues arose during the construction.

2.6 MODIFICATIONS/IMPROVEMENTS

Following the initial Pre-Construction meeting and a follow-up Site visit by Advanced GeoServices, three modifications/improvements were proposed and approved by EPA as discussed below:

1. Grading on the western portion of the Site along the fenceline was adjusted to account for existing field conditions. The grades on the vacant portion of the cascades property adjacent to the ROW was approximately six to ten inches lower in elevation then the ROW. Meeting the existing grade was not possible without removing significantly more soil than anticipated. A field adjustment was made to the grading of Type 1 areas from the western most end of the Site extending eastward approximately 650 feet. In these areas the Cap was placed directly on the original ground surface of the ROW along the fenceline. Drainage was directed to the curb or to drop inlets located within the ROW.

2. An area adjacent to the Cascades building was identified that had eroded due to a missing downspout from the roof of the Cascades building. This area was excavated to a depth of approximately six inches. Geogrid was placed on the bottom of the excavation and non-woven geotextile was then placed overlapping the geogrid adjacent to the area. The area was then brought to surrounding grade using four-inch riprap. After a heavy rain it was noted that the modification worked well and that no erosion was evident.

3. The areas around the driveways showed signs of vehicle traffic damage, particularly around the western most truck entrance. To protect the integrity of the Cap the Contractor backfilled these areas with modified stone instead of topsoil. Adjacent borders extending approximately 18 inches from the driveways into the vegetated area of the ROW were reinforced with stone below and above the installed Cap, thus creating a buffer area that would withstand vehicle traffic. The western most truck entrance received a six-inch base of stone before the pavers were placed as it was evident that this area was routinely driven on by tractor-trailers. This buffer area ranged from two to five feet in width.

3.0 AS-BUILT SURVEY

Following construction completion, Nussbaumer & Clarke, Inc. of Buffalo, New York performed an As-Built survey to document the following:

- Final grades in 0.5 ft. contours
- Location of Multi-Layer Permeable Cap placement
- Utilities not identified in previous pre-construction survey
- Stone placement areas

The As-Built survey drawing is provided in Appendix F.

4.0 REPORTING

Throughout construction, Advanced GeoServices field personnel documented the daily work activities in a field log book. A daily field report was then created noting the main points of construction including air monitoring information for each day. Additionally, bi-weekly reports documenting the activities performed to comply with the AOC were submitted to EPA. Daily field reports and bi-weekly reports are provided in Appendix D – Reporting.

5.0 PHOTOGRAPH LOG

5.1 PRE-CONSTRUCTION

Prior to any soil disturbance activities, Advanced GeoServices photographed the ROW in order to document existing Site conditions. The photos also show the elevation difference between Cascades and the ROW in the western portion of the Site. A pre-construction photograph log is provided in Appendix A.

5.2 CONSTRUCTION

During initial activities, excavation, Cap installation and restoration activities, Advanced GeoServices photographed the Work being performed. A construction photograph log is provided in Appendix A.

6.0 FINAL INSPECTION

Between September 12 and 14, 2012, EPA and Advanced GeoServices were onsite to perform a final inspection. Cap installation was completed by August 14, 2012. As of October 10, 2012 turf has been established on the Site and work is complete. During the week of October 1, 2012, the eastern portion of the Site received grass cutting. On October 10, 2012, the final grass cutting was performed on the entire Site. Photographs of the final conditions of the Site are provided in Appendix A.

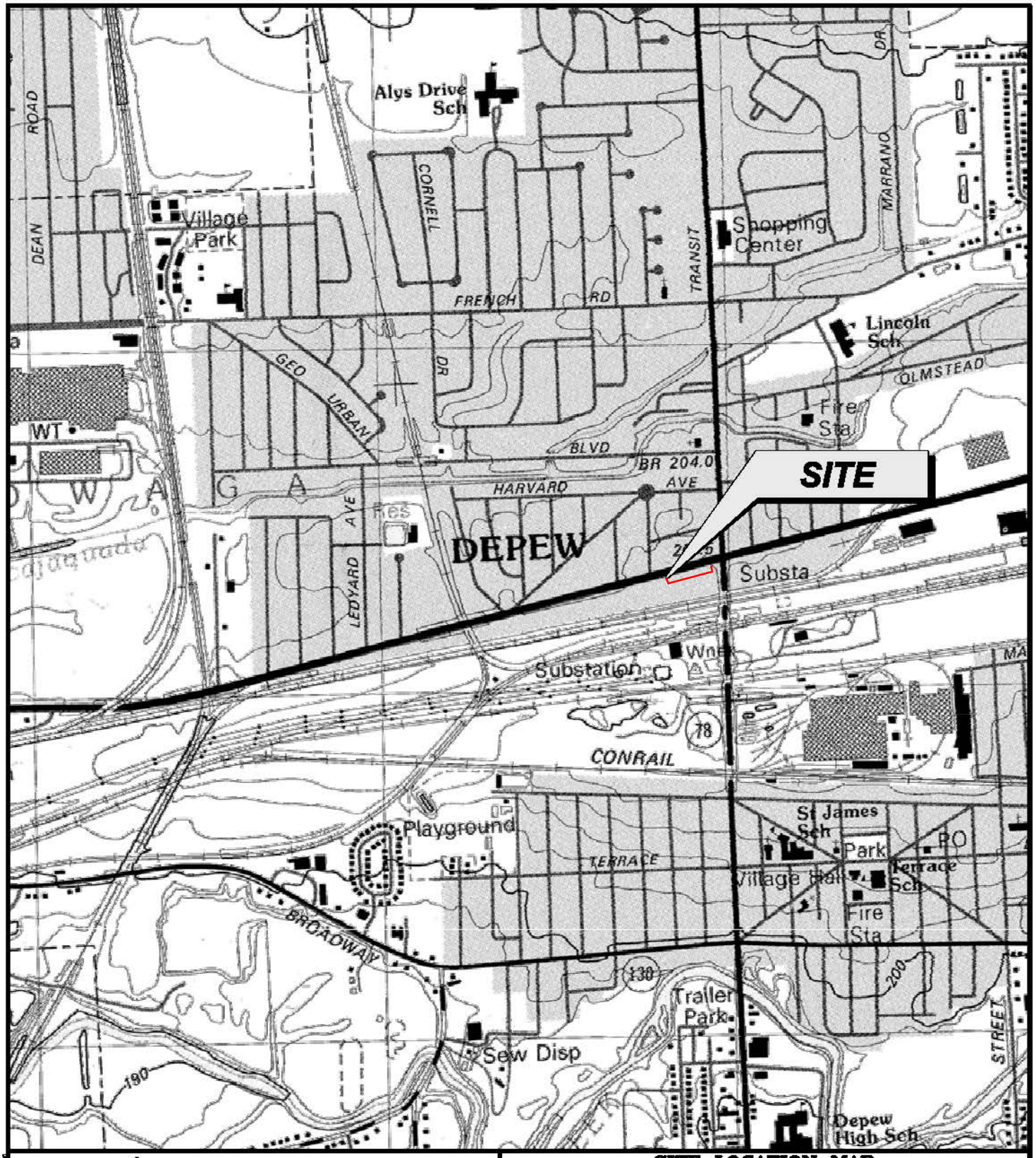
7.0 COST

The cost of the Remedial Action including Work Plan development, oversight and construction activities was approximately $268,625.00.

8.0 OPERATION AND MAINTENACE

Future utility repair work or any ROW disturbance performed should follow and comply with the approved Operation and Maintenance Plan provided as Appendix G of this Report. In addition, the As-Built in Appendix F provides the utilities and locations of 20-foot Cap section pins.

FIGURES



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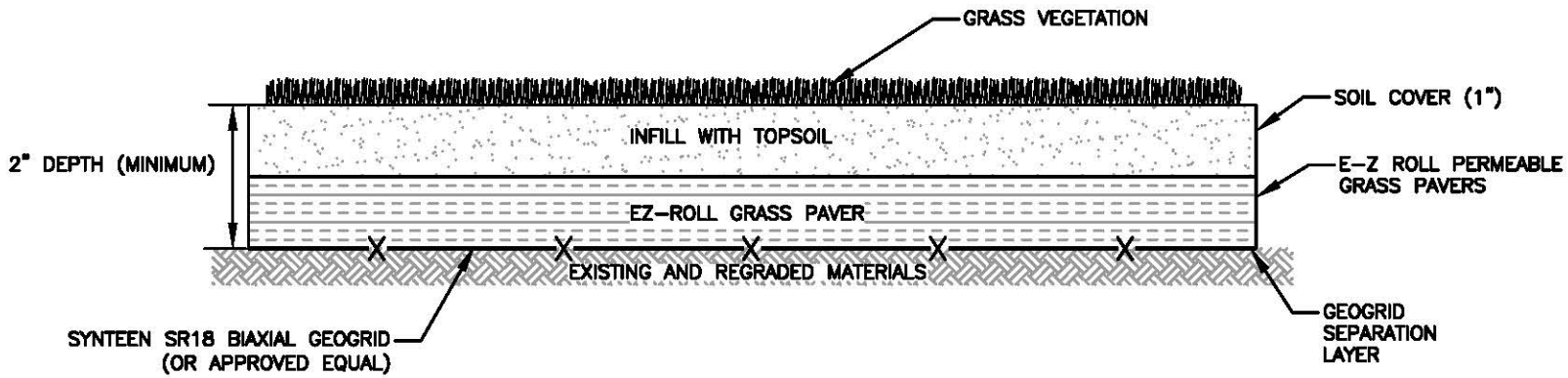
tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

SITE LOCATION MAP
WALDEN STREET RIGHT-OF-WAY

VILLAGE OF DEPEW, NY

PROJECT ENGINEER: B.L.F.	SCALE: NO SCALE		
CHECKED BY: C.T.R.	PROJECT NUMBER: NY02-927		
DRAWN BY: K.O.	DATE:	FIGURE: 1-1	

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.



MULTI-LAYER PERMEABLE CAP CROSS SECTION

NOTES:

1. REGRADED MATERIAL TO BE SPREAD OVER REMAINING WORK AREA PRIOR TO PLACEMENT OF MULTI-LAYER PERMEABLE CAP.
2. ALL DISTURBED AREAS ARE TO BE RESTORED TO A PERMANENT VEGETATIVE COVER CONDITION. WORK AREA MUST BE FULLY STABILIZED UPON COMPLETION.
3. PROVIDE POSITIVE DRAINAGE WITHIN WORK AREA AND MAINTAIN EXISTING DRAINAGE PATTERNS.
4. AASHTO #57 STONE MAY BE SUBSTITUTED FOR SOIL BETWEEN GATES AND CURBLINE.

ADVANCED GeoServices Engineering P.C.

Engineering for the Environment. Planning for People.™

WALDEN AVENUE
RIGHT-OF-WAY
VILLAGE OF DEPEW
ERIE COUNTY, NEW YORK

PROJECT ENGINEER:	CTR	SCALE:	NTS
CHECKED BY:	DGH	PROJECT NUMBER:	NY02927
DRAWN BY:	DGH	DATE: 11-17-11	FIGURE: 2-1

APPENDICES

APPENDIX A

Photograph Logs

3241 Walden Avenue ROW
Pre-Construction Photo Log

View from the west end of the Site

View from west end of the Site facing east

View from western portion of the Site facing east

View from center of western end of the Site facing east

Elevation difference at western portion of the Site; grade of Cascades property is lower

Cascades property elevation lower than the ROW; western portion of Site

Cascades property elevation lower than the ROW; western portion of Site.

Continuing east; the elevation of Cascades property is lower than the ROW

Continuing east; the elevation of Cascades property is lower than the ROW

Continuing east; elevation of Cascades property is lower than the ROW

Difference in elevation of Cascades property, facing west

Difference in elevation of Cascades property, facing west

Continuing east, elevation of Cascades property is lower than the ROW

Continuing east, elevation of Cascades property is lower than the ROW

Continuing east, elevation of Cascades property is lower than the ROW

Continuing east, elevation of Cascades property is lower than the ROW

Adjacent to the cap on Cascades property, the grades are equal

Adjacent to the cap on Cascades property, the grades are equal

View of the center of the Site facing east at the truck entrances

View of the center of the Site facing east at the truck entrances

View from truck entrance facing east toward eastern portion of the Site

View of eroded drainage area facing west from center of eastern portion of the Site

View of eastern portion of the Site facing east

View of eastern most portion of Site facing east

3241 Walden Avenue ROW
Construction Photo Log

Traffic control on Walden Avenue, facing east

Traffic control on Walden Avenue, facing east

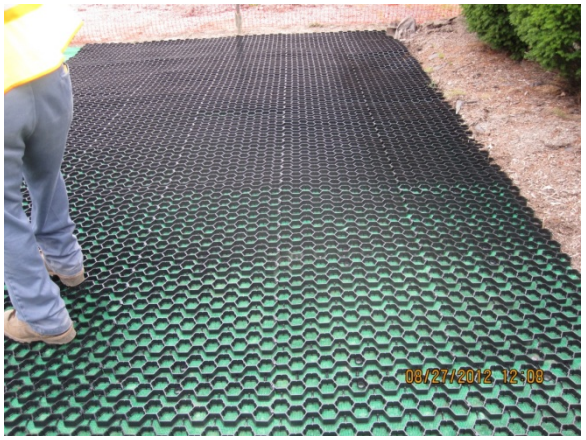
Utility location-eastern driveway Cascades building

Excavation complete at easternmost portion of the Site; geogrid installed

Eastern portion of the Site secured for the weekend

Two-inch excavation along the curb

Type-4 excavation complete; geogrid installed along Cascades building facing west



Pavers installed at easternmost portion of the Site

Installing pavers at easternmost portion of the Site

Installing pavers along the curb in front of Cascades building, facing west

Excavation and grading continue along Cascades building, facing east

Excavation continues while pavers are installed

Excavation of roof drain area adjacent to Cascades building to allow for stone placement

Geogrid and nonwoven geotextile placed in drainage area

Pavers surrounding drainage area with stone

Topsoil placement along Cascades building

Topsoil and stone along easternmost driveway for Cascades building

Securing paver with pins prior to topsoil placement

Hydroseeding complete on easternmost portion of the Site

Pavers installed between truck entrances for Cascades

Topsoil and stone at eastern truck entrance

Erosion control mat installed on eastern portion of the Site

Eastern portion of the Site complete

Easternmost portion of the Site complete

Disturbed area and soil stockpile secured for the weekend

Excavation begins at western end of the Site, facing east

Geogrid installed at western end of the Site, facing east

Excavation and Cap installation continue

Pavers installed at western end of the Site

Excavation along fence on western portion of the Site

Excavation and grading along the western portion of the Site

Paver installation along the western portion of the Site

Grass beginning to grow along the Cascades building on the eastern portion of the Site

Excavation complete and geogrid installed along the western portion of the Site

Pavers installed along the western portion of the Site

Stone at the westernmost driveway

Geogrid and pavers at westernmost driveway

20-foot sections cut in pavers for future maintenance activities

Topsoil placement along western portion of the Site

Excavation at western truck entrance

Modified stone base placed below Cap for increased strength at driveway apron

Hydroseed, topsoil, paver, and geogrid along the western portion of the Site

Hydroseeding complete on western most portion of the Site

Two-inch excavation along curb and inlet feature

Compacting stone at truck entrance

Pavers around inlet feature

Stone complete at truck entrance

Preparing topsoil for hydroseeding

Screen used to scarify topsoil after compaction

Erosion control mat on western portion of the Site

Hydroseeding complete on western portion of the Site

Elevation difference at western most portion of the Site

Western portion of the Site complete

Grass on eastern portion of Site at completion of construction

3241 Walden Avenue ROW
Completion Photo Log

Eastern section facing east

Central eastern section facing east

3241 Walden Avenue ROW
Completion Photo Log

Central section facing east

Central section facing west

3241 Walden Avenue ROW
Completion Photo Log

Central western section facing west

Central western section facing east

3241 Walden Avenue ROW
Completion Photo Log

Western section facing west

Western section facing east

3241 Walden Avenue ROW
Completion Photo Log

Western section facing east

APPENDIX B

Permit

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
100 SENECA STREET
BUFFALO, NY 14203
WWW.DOT.STATE.NY.US

DARRELL F. KAMINSKI, P.E.
ACTING REGIONAL DIRECTOR

JOAN MCDONALD
COMMISSIONER

Dear Permittee:

Attached is the approved Highway Work Permit you requested along with supporting documents. It is important to pay particular attention to the circled items on the *Construction Restriction List* included in the packet. The circled items on this list are conditions that must be followed as part of the permit. Failure to follow the directions under the circled conditions voids the permit.

Upon completion of work or expiration of the permit, please **sign and date the original permit** in the space provided. **Return** the signed copy to the Resident Engineer whose name and address is noted in the rectangular area labeled ' **IMPORTANT**' on the face of the permit.

Note: ***Adopt a Highway*** permits are valid for two years. Upon completion, you may be eligible to extend this permit type by calling the phone number in the rectangular area labeled ' **IMPORTANT**' on the face of the permit.

Thank you for your assistance. If you have any questions please call (716) 847-3271.

Very truly yours,

David Mallow
Regional Permits Engineer – R-05

PERM 42 (09/09)

State of New York
Department of Transportation

Highway Work Permit

Permit No.: **20120532063**

Date Issued: **08/07/2012**

Project ID No.:

Expiration Date: 12/31/2012

***Permittee 1:**
ENVIRINMENTAL RESTORATION INC.
191 COURTDALE AVENUE
COURTDALE, PA 18704-1148
Emergency Contact: DAVE JOHNS
Emergency Number: 570-446-3174

Under the provisions of the Highway Law or Vehicle & Traffic Law, permission is hereby granted to the permittee to:

REMOVAL OF EXISTING CONTAMINATED MATERIAL AND PLACEMENT OF MULTI-LAYER PERMEABLE CAP APPROVED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), INSTALLATION OF EROSION AND SEDIMENT CONTROL, REGRADING, PLACEMENT OF TOPSOIL AND TURF ESTABLISHMENT AT #3241 WALDEN AVENUE, ROUTE 952Q, VILLAGE OF DEPEW. ALL M&PT MUST BE PER WORK ZONE TRAFFIC CONTROL TYPICALS. SEE ATTACHED RESTRICTIONS, PLAN, DETAIL, M&PT AND LANE CLOSURE TIME RESTRICTION SHEETS. SEE CIRCLED (CHECKED) NUMBER ON CONSTRUCTION RESTRICTION LIST: 6,7,11,17,18,23,45,54.

THE PERMITTEE IS RESPONSIBLE FOR TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT. ANYONE WORKING WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107-2004 CLASS II STANDARDS AND A HARD HAT.

County	Municipality	State Hwy	State Route	Beg Ref	End Ref
ERIE	DEPEW	-	952Q	952Q53011052	952Q53011054

as set forth and represented in the attached application at the particular location or areas, or over the routes as stated therein, if required; and pursuant to the conditions and regulations general or special, and methods of performing work, if any; all of which are set forth in the application and form of this permit. See additional conditions on PAGE 2.
THIS PERMIT IS ISSUED BASED ON ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS BEING SATISFIED.

Dated at: **Buffalo** **Date Signed:** **08/07/2012** **Commissioner of Transportation** **By:** **Thomas Messana**

IMPORTANT:

THIS PERMIT, WITH APPLICATION AND DRAWING (OR COPIES THEREOF) ATTACHED, SHALL BE PLACED IN THE HANDS OF THE CONTRACTOR BEFORE ANY WORK BEGINS. THE HIGHWAY WORK PERMIT SHALL BE AVAILABLE AT THE SITE DURING CONSTRUCTION.

BEFORE WORK IS STARTED AND UPON ITS COMPLETION, THE PERMITTEE ABSOLUTELY MUST NOTIFY:

Alfred Oyoyo, Assistant Rersident Engineer 716-683-3476

"UPON COMPLETION OF WORK", SECOND TO LAST PAGE, MUST BE COMPLETED, SIGNED BY THE PERMITTEE, AND DELIVERED TO THE RESIDENT ENGINEER.

The issuing authority reserves the right to suspend or revoke this permit at its discretion without a hearing or the necessity of showing cause, either before or during the operations authorized.
The Permittee will cause an approved copy of the application to be and remain attached hereto until all work under the permit is satisfactorily completed, in accordance with the terms of the attached application. All damaged or disturbed areas resulting from work performed pursuant to this permit will be repaired to the satisfaction of the Department of Transportation.

*** Upon completion of the work within the state highway right-of-way authorized by the work permit, the person, firm, corporation, municipality, or state department or agency, and his/her or its successors in interest, shall be responsible for the maintenance and repair of such work or portion of such work as set forth within the terms and conditions of the work permit.**

Permit Fee : $0.00

Insurance Fee: $0.00

Total Fees: $0.00

UOF: App 1: No App 2: No

Attachments and additional requirements to this Highway Work Permit include:

PERM 33 - Highway Work Permit Application for Non_Utility Work

Other - Attach 1 m&pt

END OF ATTACHMENTS

PERM 42 (09/09)

State of New York
Department of Transportation

Highway Work Permit

Permit No.: 20120532063
Date Issued: 08/07/2012
Project ID No.:
Expiration Date: 12/31/2012

Return this page to:

Alfred Oyoyo, Assistant Rersident Engineer

111 Indian Rd
Depew, NY 14043

Permittee 1: ENVIRINMENTAL RESTORATION INC.
191 COURTDALE AVENUE

COURTDALE , PA 18704 - 1148

UPON COMPLETION OF WORK AUTHORIZED, THIS PAGE OF THE PERMIT MUST BE COMPLETED, SIGNED BY THE PERMITTEE, AND DELIVERED TO THE RESIDENT ENGINEER.
Work authorized by this permit has been completed. Refund of deposit or return/release of bond is requested.

DATE PERMITTEE AUTHORIZED AGENT (if any)

TO BE COMPLETED BY NYSDOT:

Work authorized by this permit has been satisfactorily completed and is accepted. **Inspection Report must be completed.**

- ☐ Refund of Deposit is authorized
- ☐ Return of Bond is authorized
- ☐ Unable to meet schedule as specified in bid proposal
- ☐ Amount charged against Bond may be released.
- ☐ Retain bond for future permits
- ☐ Forfeit of Guarantee Deposit is authorized
- ☐ Other

DATE RESIDENT ENGINEER

☐ Mailing address of refund has been verified.
If different, list new address:

The Regional Office will forward this form to the Main Office with the appropriate box checked.

- ☐ Permit closed
- ☐ Bond returned/released
- ☐ Refund of Guarantee Deposit on this permit is authorized
- ☐ Forfeit Guarantee Deposit to NYSDOT
- ☐ Other

DATE REGIONAL TRAFFIC ENGINEER

INSPECTION REPORT

For each Highway Work Permit issued, inspections will be performed. The following report must be completed for each site visit, indicating the date, inspector, and hours spent on inspection. **If the total inspection time exceeds 1 hour, then a FIN 12 (PERMIT INSPECTION FOR DEPARTMENT SERVICES) is REQUIRED.**

INSPECTION REPORT LOG

HOURS WORKED BY DATE									HOURS	
Inspector Name	Date Inspected								Regular	Overtime
	Regular									
	Overtime									
Inspector Name	Date Inspected								Regular	Overtime
	Regular									
	Overtime									
Inspector Name	Date Inspected								Regular	Overtime
	Regular									
	Overtime									

Complete hours for each date inspected.
Add regular hour numbers across rows, and then overtime hours across rows.
Add hour columns down for total hours of permit inspection time.

COMMENTS/OBSERVATIONS:

_____
_____
_____
_____
_____
_____
_____
_____
_____

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED ABOVE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

_____

NAME **TITLE**

TO: Regional Permit Engineer DATE SENT: 8/7/12

FROM: _____

PERMITTEE: ENVIRON. RESTOR. INC.

ROUTE NO: 952Q TOWN: VIL. DEPEW COUNTY: ERIE

ORIGINAL BOND IS: ☐ ATTACHED ☐ ON FILE WITH REGION 5 or MAIN OFFICE

Indicate Bond Number, Bond Amount and Amount of Bond to be applied to this permit on the application.

Capital projects - Regional Utility Engineer Review Completed: ☐ PIN # _____ D# _____

NYSDOT unit reviews remaining on date of application:

Hydraulics: ____ *T&S:* ____ *Landscape:* ____ *Soils:* ____ *Other:* _____

Payments, Insurance and Deposits

ACCOUNT NAME *(AS IT APPEARS ON CHECK)*: _____ Check Amt: —

Ck No & Date _____ ____/____/____ Date of Receipt: ____/____/____ Perm.Fee: $ NC

Charge fee to utility Account # _____ PERM 17 Insurance Account # 55300 Ins. Fee: $ —

Name on Guarantee deposit check _____ deposit amount $_____

Guarantee deposit Check No & Date _____ ____/____/____

CONSTRUCTION RESTRICTIONS

The following circled conditions apply:

1. The line shall be sleeved within the New York State right-of-way. The sleeve shall be a minimum of 5 ft. below the pavement and a minimum depth of 3 ft. below a ditch invert.

2. The boring pit and receiving pit shall be located behind the normal ditch line or toe of slope and in no instance shall the edge of the excavation, nearest the pavement, be less than 10 ft., measured laterally, from the edge of the shoulder. Hydraulic jet boring is not allowed.

3. Small diameter services (2 in. inside diameter or smaller) may be placed without sleeving with the understanding that in the future, if remedial or repair work is necessary on this line, this work must be accomplished by some other means than open cutting the highway pavement.

4. All underground utilities within the New York State right-of-way will have minimum cover of 60 in. in the pavement area and be placed 36 in. or more below the finished grade or ditch invert in other portions of the right-of-way. In all cases, utilities will be installed as close to the outer limits of the right-of-way as possible.

5. All utility poles that are placed or replaced within the New York State right-of-way will be offset 30 ft. from the edge of pavement where sufficient right-of-way exists or as close to the outer limits of the right-of-way as possible where it does not.

6. All damaged or disturbed areas, that are the result of the work done by this permit, will be returned to original condition or better.

7. Maintenance and protection of traffic shall be in conformance with section 619 of the current NYSDOT "Standard Specifications for Construction and Materials," the Federal Highway Administration Manual of Uniform Traffic Control Devices and New York Supplement.

8. All work must be coordinated with and final location may be adjusted by the New York State Department of Transportation Engineer-in-Charge of the construction project. NYSDOT EIC NAME: _____ FIELD OFFICE PHONE # (_____) _____

9. Before any work is started, the NYSDOT Utilities Engineer must be notified at (716) 847-3954.

10. Any work within the New York State right-of-way involving tree removal or tree trimming must be coordinated with the New York State Department of Transportation Regional Landscape Architect, at (716) 847-3865.

11. No stockpiling or storage of any materials and no parking of equipment during non-working hours will be allowed on pavement or shoulders.

12. Any changes made by the New York State Department of Transportation on the submitted drawing are marked in RED.

13. Pavement replacement as per attached sketch.

14. Highway work permits must also be obtained from the municipality that has jurisdiction over this project. Example: tie-ins to Sanitary Sewers.

15. Service cabinets and environmental vaults are not allowed within the New York State right-of-way.

16. All attachments on utility poles will be a minimum of 7 feet above a sidewalk area, 14 feet over a parking lane, 18 feet over travel lanes

17. Flag persons will be required as necessary to maintain the safe flow of traffic.

18. Open cutting of the State highway will NOT be allowed.

19. The permittee shall avoid all NYSDOT traffic signal equipment, vehicle detectors and interconnects. Three (3) business days before any work is started, you must notify DOT Traffic Signal Shop Supervisor (716) 649-1426. Any damage to such equipment shall be repaired by the permittee to NYSDOT standards and specifications & will be subject to NYSDOT inspection.

20. When hot plant mix is unavailable, QPR2000, modified stockpile patching material or equivalent, shall be used.

21. The existing pole(s) must be removed under this permit.

22. Ditch lines must be restored to their original slope (side slopes) and flow line under the permit. This also includes rip-rap restoration where required.

23. All the current requirements of the following shall apply: Occupational Safety and Health Administration; Accommodation of Utilities Within the State Right-of-Way; Federal Department of Labor, Safety and Health Standards; New York Code of Rules and Regulations; and the New York State Department of Labor, Industrial Code Rules 23 and 753.

24. All Adopt-a-Highway participants must wear the required safety gear (hardhats and ANSI class II high visibility vests)

25. All Adopt-A-Highway work within the New York State right-of-way must be coordinated with a Department of Transportation Representative. A Department Safety Representative must be present at your first scheduled session. Please refer to the attached sheet and contact the person indicated to arrange that meeting.

26. Closure of lanes can begin at _____ AM PM. (Insert time and circle one)

27. All traffic control devices must be removed from the State highway and all lanes reopened to traffic ~~by~~ FROM 3-6 AM PM (Insert time and circle one)

28. FIVE (5) business days BEFORE any work is STARTED; NITTEC Operations MUST BE NOTIFIED at (716) 847-2070.

31. The permittee shall notify the Geo-Technical Unit (Soils Bureau) (716) 667-1711 of any excavation in excess of 5 ft. BEFORE start of work.

32. All restoration work requirements shall comply with New York State Department of Transportation Specifications including material and/or workmanship. Restoration work shall progress without undue delay after the prime utility work is installed.

33. Unsatisfactory performance under one permit will halt the issuance of subsequent permits until the requirements of the earlier permit have been satisfied.

34. Open cuts must be backfilled in accordance with NYSDOT STANDARD SPECIFICATION. Item 204.02, Controlled Low Strength Material to the top of subgrade. The subbase and asphalt must be replaced to match existing (See Drwg No. 7). FLY ASH IS PROHIBITED.

35. Written permission must be obtained from the owner of the bridge or utility poles that the banner or decorations will be attached. The low point of the banner shall be a minimum of 18 ft. above the high point of the pavement.

36. The point of intersection of the driveway radius or flare with the edge of pavement SHALL NOT BE ANY LOCATED CLOSER THAN 5 FT. from the adjacent property line.

37. The existing drainage patterns shall not be altered. A(an)_____inch diameter Corrugated Metal Pipe (CMP) or smooth interior corrugated polyethylene pipe (HDPE) that meets NYSDOT standards shall be installed under each drive as shown on the attached sketch. Flared end-sections are required in open ditch.

38. The drive shall consist of gravel and/or rock to provide necessary stabilization & a cleaning effect on the tires of the vehicles using the drive.

39. The blacktop shall be a minimum of 4 in. depth of compacted material consisting of 2 ½ in. of base & 1 ½ in. top w/in the right-of-way w/ 8" subbase.

40. A concrete drive will be a minimum of 6 in. depth of concrete with mesh reinforcing at its midpoint within the right-of-way.

41. NO SIGNS WITH ANY COMMERCIAL ADVERTISEMENT in the text are allowed on the State right-of-way.

42. A minimum of 15 ft. should be provided between the ROW line & the near edge of a building, structure, or appurtenance serving vehicular traffic.

43. Any accumulation of material on the state highway pavement, shoulders, etc., resulting from utilization of drive is a violation of the Vehicle &Traffic Law & MUST be removed as soon as possible.

44. The surface of the drive shall slope down from the edge of pavement to the center of ditch line at 0.75 in. per foot or shall conform to the existing shoulder slope.

45. BEFORE ANY WORK IS STARTED, the Assistant Resident Engineer as indicated (by check mark) below MUST BE CONTACTED

ASSISTANT RESIDENT ENGINEERS

___	HEATHER HORTH	CATTARAUGUS COUNTY RESIDENCY	- (716) 945-4562
___	JOHN HARRELL	CHAUTAUQUA COUNTY RESIDENCY	- (716) 753-2821
X	ALFRED OYOYO	NORTH ERIE RESIDENCY	- (716) 683-3476
___	BRIAN SKOK	SOUTH ERIE RESIDENCY	- (716) 649-2157
___	PAUL UEBELHOER	NIAGARA COUNTY RESIDENCY	- (716) 438-2396

46. It shall be the property owner's responsibility for ALL maintenance of the culvert, including cleaning. The property owner shall also be responsible for any replacement culvert if the original culvert must be removed for any reason.

47. See attached Annual Maintenance Permit Requirements sheet for restrictions & conditions to be followed.

48. See attached Annual Service Permit Requirements sheet for restrictions & conditions to be followed.

49. Sub-contractors working in the NYSDOT right-of-way must obtain separate Highway Work Permits.

50. The attached Utility Notification form must be completed and faxed to the appropriate residency.

51. When the work starts, notification MUST be given to the Geotechnical Unit (716) 667-1711.

52. See attached Restriction sheet for the Erection of Temporary Signs, Banners, and Similar Overhead Devices over State Highways.

53. ADDITIONAL RESTRICTIONS / COMMENTS:

_____

_____

_____

54. Any and all accidents occurring in the work zone established for the work to be performed under this permit shall be reported to the Assistant Resident Engineer as indicated above.

PERM 33 (8/01)

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION
HIGHWAY WORK PERMIT APPLICATION FOR NON-UTILITY WORK

PREPARE 3 COPIES
(photocopies acceptable)

Application is hereby made for a highway work permit:

Name Environmental Restoration, Inc.

Address 191 Courtdale Ave.

City Courtdale State PA Zip 18704-1148

Federal I.D. No. or Social Security No. 23-2623685

Applicant Telephone No. 570-331-8191

Contact person in case of emergency Dave Johns

Telephone No. of contact person (570) 446-3174

For Joint application, name and address of Second Applicant below:

Name

Address

City State Zip

2012 05 32063

RETURN PERMIT TO (If different from above):

Name

Address

City State Zip

RETURN OF DEPOSIT/BOND TO (Complete only if different from permittee):

Name

Address

City State Zip

1. Estimated cost of work being performed in state highway right-of-way $ $199,565.00

2. Anticipated duration of work: From 8/15 20, 12 thru 9/28, 20 12, to apply to the operation(s) checked on the reverse side.

3. Protective Liability Insurance covered by Policy No. ECC101006361 ; expires on 3/23 20 13

4. A $20.00 fee will be charged for checks returned by the bank.

PROPOSED WORK (Brief description): Implement the Multi-Layer Permeable Cap: • Utility Verification and Surveying • Erosion and Sediment Control Installation • Removal (mowing) of Existing Vegetation • Dust Suppression (moistened soil) •Regrading (cut/fill) of ROW • Installation of Geogrid • Installation of Permeable Grass Pavers • Placement of Topsoil • Turf establishment.

ATTACHED: Plans Work Plan Specifications

LOCATION: State Route New York State Route 952Q State Highway Walden Ave

between Reference Marker John L. Ferry & (West) ~~Charles Finigan Properties~~ and Reference Marker Charles Finigan & (East) ~~Michael Edwin Properties~~

Town of: Village of Depew County of: Erie

SEQR REQUIREMENTS (Check appropriate item):

☐ Exempt ☐ Ministerial ☒ Type 11 ☐ EIS or DEIS Lead Agency

If project is identified to be ministerial, exempt, or TYPE 11, no further action is required.

If project is determined to be other than ministerial, exempt, or TYPE 11, refer to M.A.P.7.12-2, Appendix A SEQR REQUIREMENTS FOR HIGHWAY WORK PERMITS.

Acceptance of the requested permit subjects the permittee to the restrictions, regulations and obligations stated on this application and on the permit.

Applicant Signature Dave Johns Date July 24 20 12.

Second Applicant Signature Date 20 .

PERMIT IS ISSUED CONTINGENT UPON LOCAL REQUIREMENTS BEING SATISFIED.

CHECK TYPE OF OPERATION	Permit Fee	Insurance Fee	Perm 17 or Under Taking	Total Amount of Fee and/or Insurance	[illegible]
5. ☑ Single job – Permit issued for each job					
a. ☐ Driveway or roadway					
1. ☐ Residential	$ 15	$ 25			
2. ☐ Commercial – Minor	550	175			
a. ☐ Home Business	100	75			
3. ☐ Commercial – Major – (Less than 100,000 square feet Gross Building Area)	1400	N/A			
4. ☐ Commercial – Major – (100,000 square feet Gross Building Area and Greater)	Actual cost with Minimum of $2000 upon permit app.	N/A			
5. ☐ Subdivision Street	900	N/A			
6. ☐ Temporary access road or street	200	150			
b. ☐ Improvement					
1. ☐ Residential	15	25			
2. ☐ Commercial					
Check additional description below:					
a. ☐ Install sidewalk, curb paving, stabilized shoulder, drainage, etc.	200	150			
b. ☐ Grade, seed, improve land contour, clear land of brush, etc.	100	75			
c. ☐ Resurface existing roadway or driveway	50	50			
d. ☐ Annual resurfacing of residential and commercial roadways or driveways.					
1. ☐ Per County	150	N/A			
2. ☐ Per Region	400	N/A			
c. ☐ Tree Work					
1. ☐ Residential	15	25			
2. ☐ Commercial (not required for pruning if utility has annual maintenance permit)	25	50			
Check additional description below:					
a. ☐ Removal or planting					
b. ☐ Pruning, applying chemicals to stumps, etc.					
3. ☐ Vegetation control for advertising signs	150/sign	75			
d. ☒ Miscellaneous Construction					
1. ☐ Beautifying ROW – (for Civic Groups only)	NC	25			
2. ☐ Temporary signs, banners, holiday decorations					
a. ☐ Not-for-profit organizations	NC	25			
b. ☐ Organizations other than not-for-profit	25	25			
3. ☐ Traffic control signals	500	175			
4. ☐ Warning and entrance signs	25	50			
5. ☐ Miscellaneous – Requiring substantial review	400	175			
6. ☒ Miscellaneous	25	50	55300	NC	
6. ☐ Encroachment caused by D.O.T. acquisition of property	25	50			
7. ☐ Compulsory permit required for work performed at the request of D.O.T.					
a. ☐ Building demolition or moving requested by D.O.T.	NC	25			
1. ☐ Demolition 2. ☐ Moving					
b. ☐ Improvement to meet Department standards	NC	25			
8. ☐ Miscellaneous	25	25			
9. ☐ Adopt a Highway	NC	N/A			

Guarantee Deposit Check Number or Bond Number _____

PERM 33 (8/01)
REVERSE

COMPLETE FILE IS IN

O:/TRAFFIC/PERMITS/HIGHWAY WORK PERMITS/
ENVIRONMENTAL RESTORATION PERMIT

MULTI-LAYER PERMEABLE CAP WORKPLAN
FOR
3241 WALDEN AVENUE RIGHT-OF-WAY
DEPEW, NY

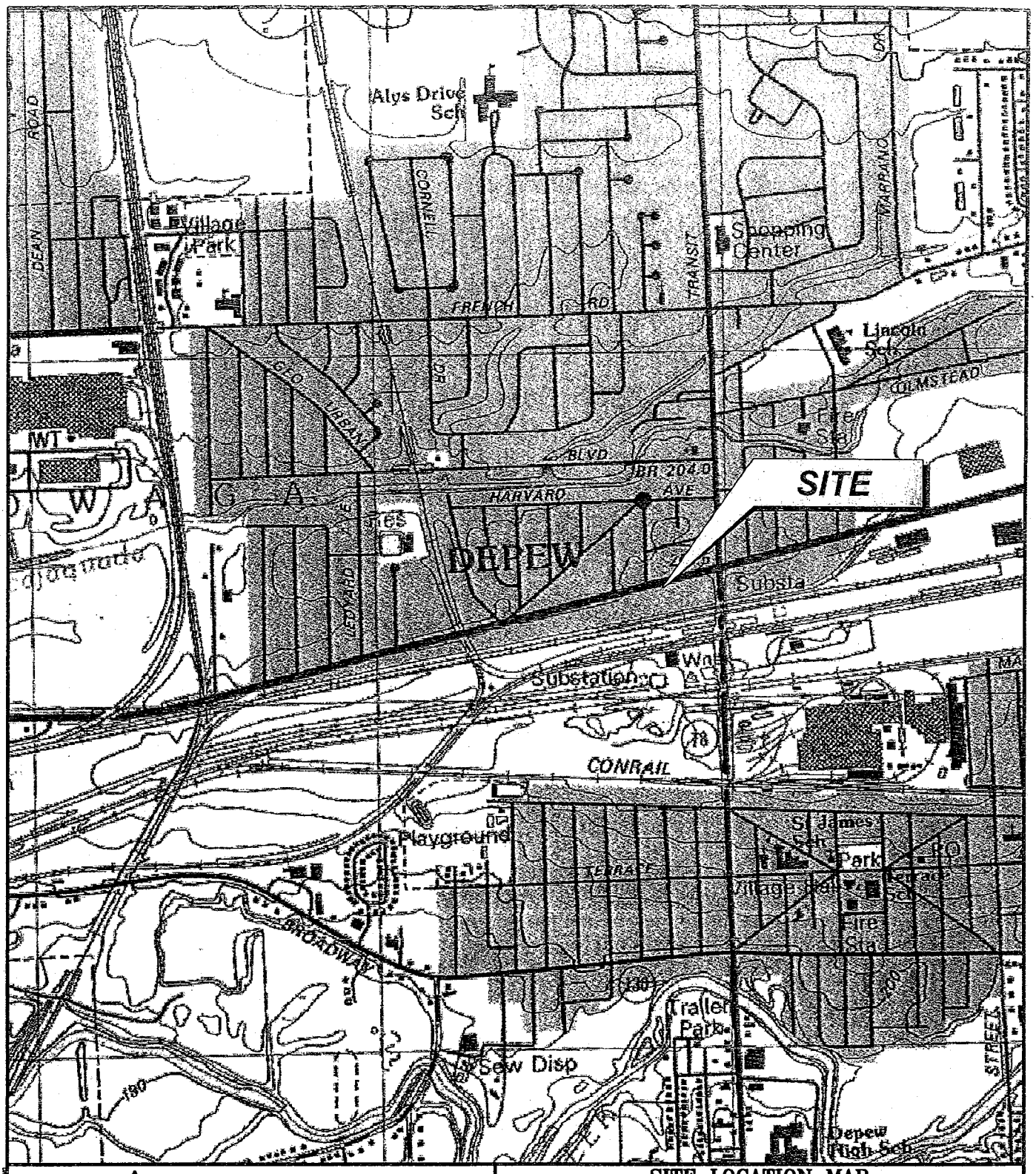
Prepared for:

NL Industries

Prepared by:

Advanced GeoServices Engineering, P.C.

July 2012
Project No.: NY02927



ADVANCED GeoServices Engineering P.C.

Engineering for the Environment. Planning for People.™

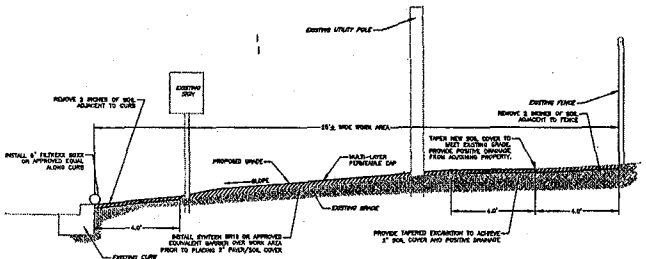
1055 ANDREW DRIVE, SUITE A, WEST CHESTER PA, 19380
tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

SITE LOCATION MAP
WALDEN STREET RIGHT-OF-WAY

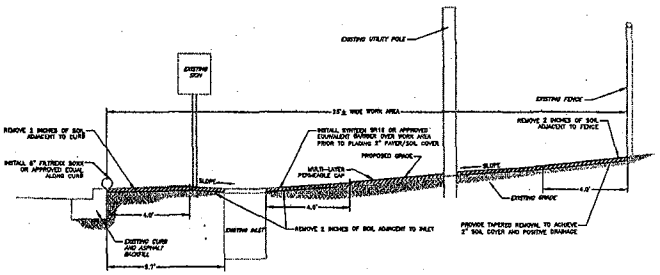
VILLAGE, OF DEPEW, NY

PROJECT ENGINEER: B.L.F.		SCALE:	NO SCALE
CHECKED BY:	C.T.R.	PROJECT NUMBER:	NY02-927
DRAWN BY:	K.O.	DATE:	FIGURE: 1-1

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation 'altered by' followed by his signature and the date of such alteration, and a specific description of the alteration.



TYPICAL SECTION – TYPE 1
(STANDARD TAPERED SOIL SECTION)



TYPICAL SECTION – TYPE 2
(ROW INLET DRAIN SECTION)

SPECIFICATIONS

TOPSOIL

1. THE TOPSOIL SHALL BE 1-INCH THICK (MIN.) AND SHALL BE FREE OF OBJECTIONABLE MATERIAL, TRASH, ROOTS, ORGANICS, DEWATERABLE INCLUSIONS, EXCESS MOISTURE, FROZEN MATERIALS, CLAYBALLS, AND PARTICLES LARGER THAN 1/4 INCHES. THE TOTAL ORGANIC CONTENT SHALL BE BETWEEN 3.0 AND 5%. THE TOPSOIL SHALL HAVE A USCS SOIL CLASSIFICATION OF SM OR SC WITH A MINIMUM OF 40% PASSING THE NO. 10 SIEVE. IN ADDITION, THE FINE FRACTION (PASSING THE NO. 200 SIEVE) SHALL MEET THE FOLLOWING REQUIREMENTS PER ASTM D 4318: LL < 40 AND PI < 20.
2. APPROVED SEED MIXTURES SHALL BE AS PROVIDED BELOW.

WORK AREAS MIXTURE

COMMON NAME	VARIETY	SCIENTIFIC NAME	CERN.
ANNUAL RYEGRASS	FAIRN	LOLIUM MULTIFORUM	90
PERENNIAL RYEGRASS	ALLSTAR 3	LOLIUM PERENNE	90
PERENNIAL RYEGRASS	EVERGREEN SHADE	LOLIUM PERENNE	90
PERENNIAL RYEGRASS	LANCELO II	LOLIUM PERENNE	90
KENTUCKY BLUEGRASS	KENBLUE	POA PRATENSIS	85
CREEPING RED FESCUE	BORDEN.	FESTUCA RUBRA L.	85

SEEDING RATE: 8 LBS/1,000 SF

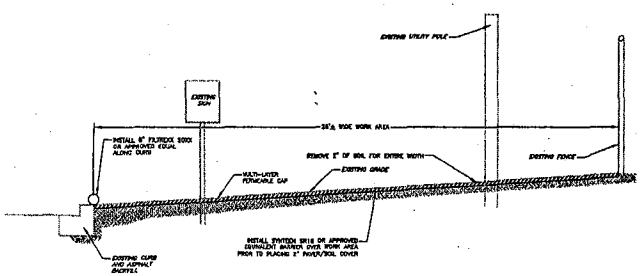
CONVERSATION MIXTURE

COMMON NAME	VARIETY	SCIENTIFIC NAME	CERN.
TALL FESCUE	–	FESTUCA ARUNDINACEA	85
CREEPING RED FESCUE	–	FESTUCA RUBA L.	85
ANNUAL RYEGRASS	FAIRN	LOLIUM MULTIFORUM	90
TIMOTHY	–	PHLEUM PRATENSE	90
KENTUCKY BLUEGRASS	KENBLUE	POA PRATENSIS	80
WHITE CLOVER	–	TRIFOLIUM REPENS	90

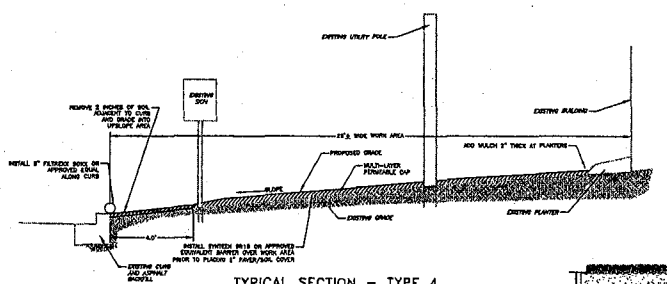
SEEDING RATE: 3 LBS/1,000 SF

SEED MIXTURES PROVIDED BY PROTURFED SEED CO. 875 KENMORE ROAD, BUFFALO, NY 14227

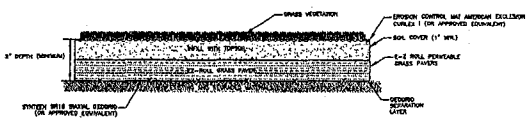
THE CONTRACTOR SHALL CONSULT AN INDEPENDENT AGRICULTURAL SPECIALIST TO THE EXTENT NECESSARY TO ASSURE THEMSELVES THAT THE IMPORTED TOPSOIL IS SUITABLE FOR THE LONG-TERM SUSTAINABLE USE OF THE VEGETATION ON THE PROTECTIVE TOPSOIL. ANY TESTING NECESSARY TO CONFIRM THE SUITABILITY OF THE TOPSOIL AS WELL AS FERTILIZATION AND LIMING RECOMMENDATIONS SHALL BE COMPLETED BY THE CONTRACTOR.



TYPICAL SECTION – TYPE 3
(DRAIN TO CURB SECTION)



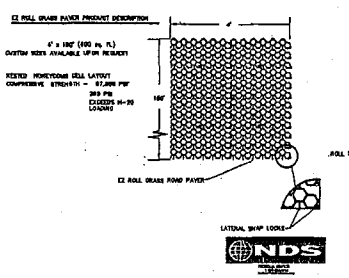
TYPICAL SECTION – TYPE 4
(DRAIN TO STREET SECTION)



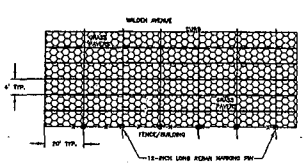
MULTI-LAYER PERMEABLE CAP CROSS SECTION

NOTES:

1. REMOVED MATERIAL TO BE SPREAD OVER REMAINING WORK AREA PRIOR TO PLACEMENT OF MULTI-LAYER PERMEABLE CAP.
2. ALL DISTURBED AREAS ARE TO BE RESTORED TO A PERMANENT VEGETATIVE COVER CONDITION. WORK AREA MUST BE FULLY STABILIZED UPON COMPLETION.
3. PROVIDE POSITIVE DRAINAGE WITHIN WORK AREA AND MAINTAIN EXISTING DRAINAGE PATTERNS.



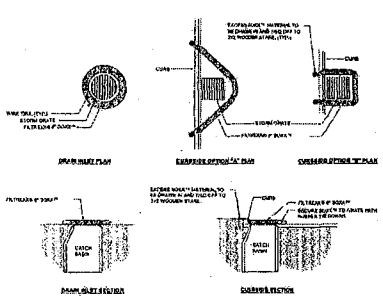
TYPICAL EZ-ROLL GRASS PAVER DETAIL
NOT TO SCALE



MULTI-LAYER PERMEABLE CAP
PLAN VIEW

NOTES:

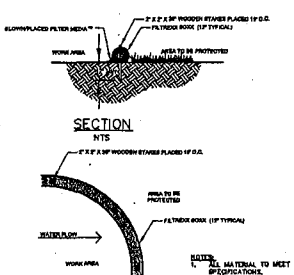
1. INSTALL GRASS PAVER IN 20-FOOT SECTIONS ALONG THE ROW.
2. INSTALL #3 REBAR WITH PLAY-TOPPED REBAR CAP FLUSH WITH FINAL GROUND SURFACE.
3. FOLLOWING EZ-INSTALLATION, 12-INCH LONG REBAR AND REBAR CAP TO BE INSTALLED FLUSH WITH GROUND SURFACE ADJACENT TO FENCE.



NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. DRAINAGE MATERIAL TO BE DISPERSED ON SITE, MUST BE APPROVED BY ENGINEER.

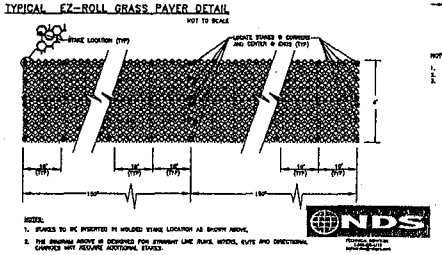
FILTREXX® INLET PROTECTION
NTS



NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS APPROVED BY ENGINEER.

FILTREXX SEDIMENT CONTROL
N.T.S.



NOTES:

1. STAKES TO BE INSERTED IN MOLDED STAKE LOCATION AS SHOWN ABOVE.
2. THE DIAGRAM ABOVE IS DESIGNED FOR STRAIGHT LINE RUNS, BENDS, CUTS AND DIRECTIONAL CHANGES MAY REQUIRE ADDITIONAL STAKES.
3. STAKES ARE REQUIRED TO BE SPACED SEPARATELY THROUGH AN AUTHORIZED NPS REPRESENTATIVE USING PART #GE STAKE

TYPICAL EZ-ROLL GRASS PAVER STAKING

DATE	REVISION

It is a violation of the New York Education Article 145 – Engineering and Land Surveying, Section 7209 (2) for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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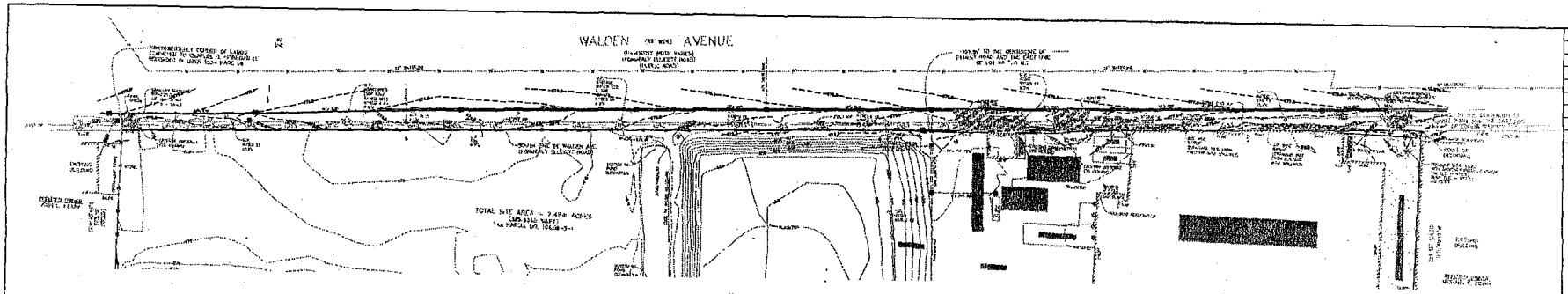
VILLAGE OF DEPEW
ERIE COUNTY, NEW YORK
WALDEN AVENUE
RIGHT-OF-WAY

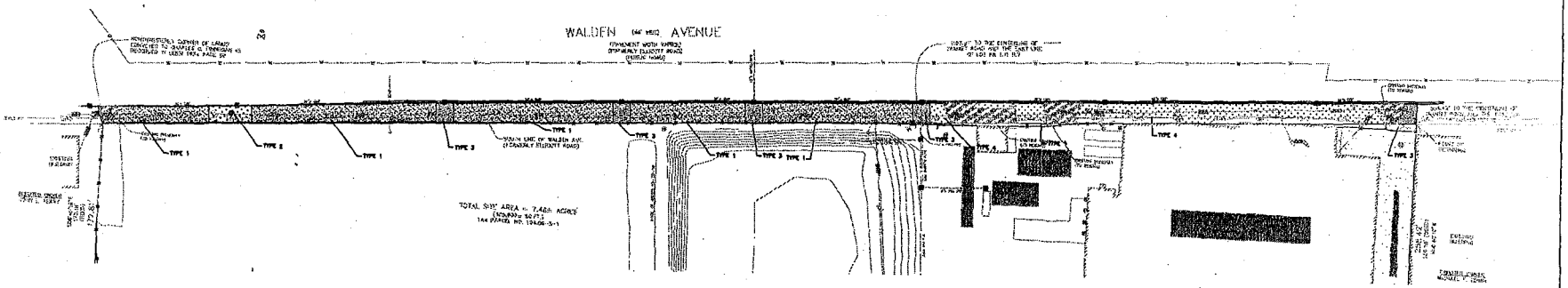
DETAILS

C900

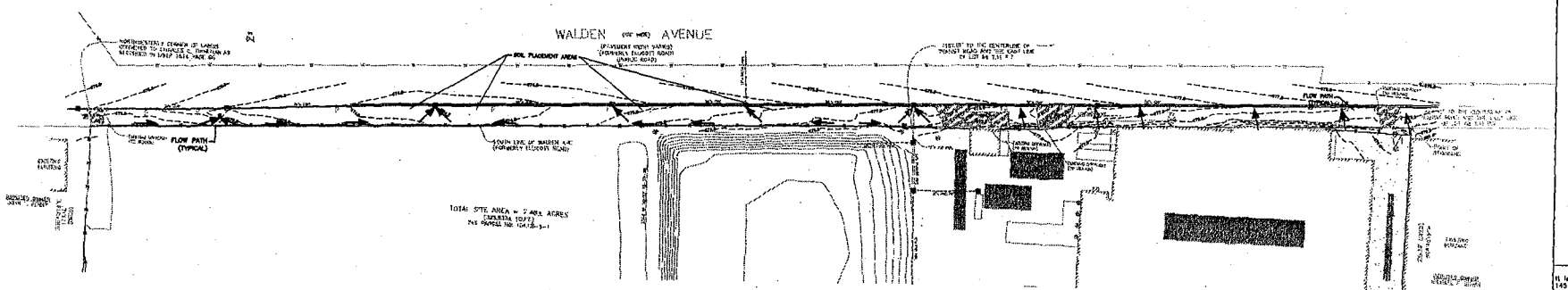
Scale	AS NOTED
Designed By	D.G.H.
Drawn By	R.R.P.
Checked By	C.T.R.
Project Mgr.	D.J.F.
Project No.	N7019927
Sheet No.	2 OF 2



EXISTING CONDITIONS PLAN
SCALE: 1"=50'



MULTI-LAYER PERMEABLE CAPPING PLAN
SCALE: 1"=50'



SURFACE DRAINAGE PLAN
SCALE: 1"=50'

LEGEND

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

SEQUENCE OF CONSTRUCTION

1. INSTALL SILTER SOCK ALONG CURBLINE, AND INLET PROTECTION AROUND ALL INLETS IN ACCORDANCE WITH DETAILS.
2. REMOVE REMAINING RIGHT-OF-WAY AREAS IN ACCORDANCE WITH THE TYPICAL SECTIONS.
3. SPREAD REMOVED SOIL AND COVER WITH MULTI-LAYER PERMEABLE CAP IN ACCORDANCE WITH THE DETAILS.
4. ONCE EZ-SOIL GRASS PAVER HAS BEEN INSTALLED, PLANT TOPSOIL OVER GRASS PAVER.
5. SEED, MULCH, AND FERTILIZE DISTURBED AREAS.
6. INSTALL EROSION CONTROL MAT FOLLOWING SEEDING, FERTILIZATION AND MULCHING.
7. ONCE DISTURBED AREAS ARE STABILIZED, REMOVE EROSION CONTROLS FROM SITE AND DISPOSE OF PROPERLY.

AREA ESTIMATES

SURFACE	AREA
TYPE 1	17,676 SF
TYPE 2	8,769 SF
TYPE 3	8,769 SF
TYPE 4	7,488 SF
TOTAL AREA	242,722 SF

NOTES:

1. BASE PLAN TAKEN FROM PLAN TITLED TOPOGRAPHIC & UTILITY SURVEY OF 3241 WALDEN AVENUE PREPARED BY NIEDBALACK & CLARKE, INC. DATED 09/07/11, DRAWING NUMBER SC-3517-C
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988
3. HORIZONTAL DATUM: ADVANCED CORPORATE SYSTEM AND ADVANCED NORTH.

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

NORTH

DATE	REVISION

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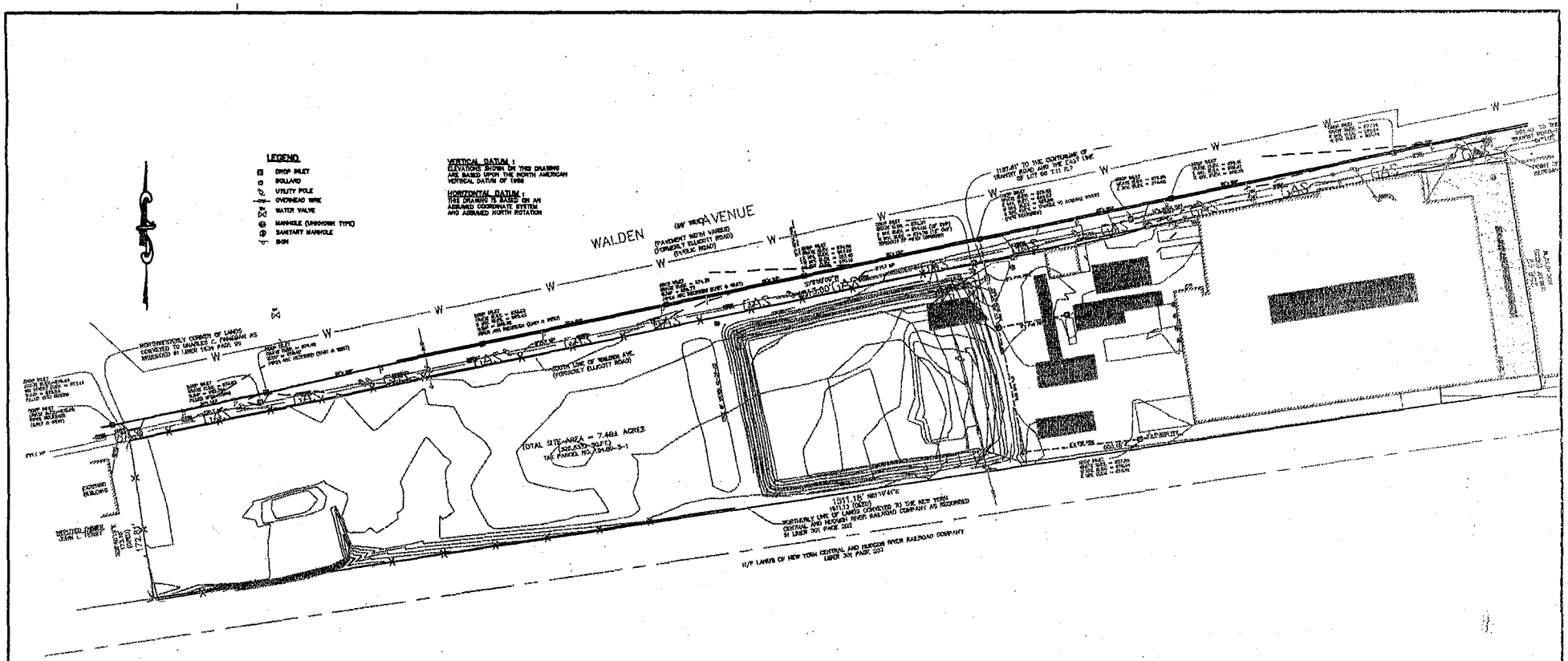
1405 ARDEN DRIVE, SUITE A, WEST CHESTER PA 19380
tel 610-645-9100 fax 610-645-8310 www.advancedgeoservices.com

VILLAGE OF DEPEW
ERIE COUNTY, NEW YORK
WALDEN AVENUE
RIGHT-OF-WAY

SITE PLAN

C101

SCALE	1" = 50'
DESIGNED BY	D.G.H.
DRAWN BY	R.R.P.
CHECKED BY	C.T.R.
PROJ. MGR.	B.L.F.
PROJECT NO.	H102-927
SHEET NO.	1 OF 2



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

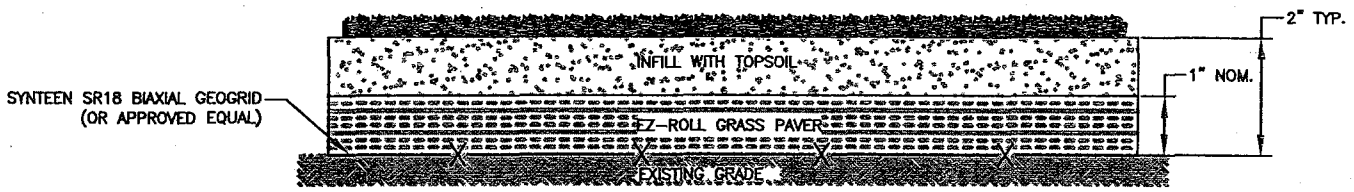
DEPEW, NY

SCALE: 1" = 1250'

PROJECT NUMBER: NY02-927

DATE:

Figure-1



MULTI-LAYER PERMEABLE CAP CROSS SECTION

NOTES:

1. REGRADED MATERIAL TO BE SPREAD OVER REMAINING WORK AREA PRIOR TO PLACEMENT OF MULTI-LAYER PERMEABLE CAP.
2. ALL DISTURBED AREAS ARE TO BE RESTORED TO A PERMANENT VEGETATIVE COVER CONDITION. WORK AREA MUST BE FULLY STABILIZED UPON COMPLETION.
3. PROVIDE POSITIVE DRAINAGE WITHIN WORK AREA AND MAINTAIN EXISTING DRAINAGE PATTERNS.

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tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY CROSS-SECTION DETAIL

DEPEW, NY

PROJECT ENGINEER: B.L.F.	SCALE:	NO SCALE	
CHECKED BY: C.T.R.	PROJECT NUMBER: NY02-927		
DRAWN BY: K.O.	DATE:	FIGURE: 2	

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

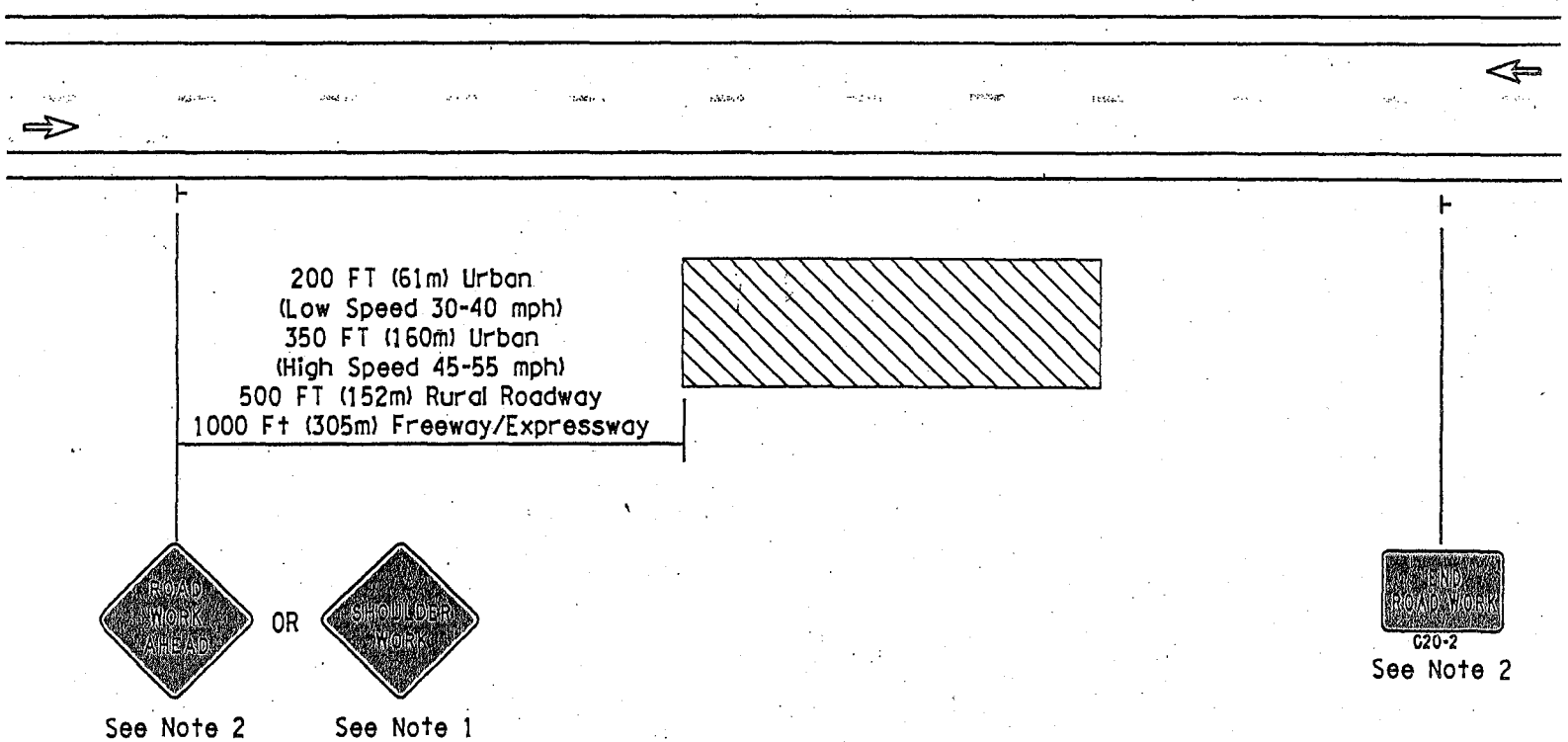
TABLE A

Time and Holiday Restrictions
Erie County

ROUTE	DIRECTION	LIMITS	TIME RESTRICTIONS
NY Route 240	Northbound	Genesee St to NY Rte 324	3pm-6pm
NY Route 240	Southbound	NY Rte 324 to Genesee St	3pm-6pm
NY Route 240	Southbound	Mile Strip Rd to Union Rd	3pm-6pm
NY Route 263	Northbound	NY Rte 324 to NY Route 270	6am-9am & 3pm-6pm
NY Route 263	Southbound	NY Route 270 to NY Rte 324	6am-9am & 3pm-6pm
NY Route 277	Northbound	Seneca St to Wehrle Dr	6am-9am & 3pm-6pm
NY Route 277	Southbound	Wehrle Dr to Seneca St	6am-9am & 3pm-6pm
Interstate 290	Eastbound	See Page XXVIII to XXXI	
Interstate 290	Westbound	See Page XXVIII to XXXI	
NY Route 324	Eastbound	Belmount Ave. to NY Route 78	6am-9am & 3pm-6pm
NY Route 324	Westbound	NY Route 78 to Belmount Ave.	6am-9am & 3pm-6pm
NY Route 384	Northbound	Nottingham Terr to NY Rte 324	7am-9am
NY Route 384	Southbound	NY Rte 324 to Nottingham Terr	3pm-6pm
NY Route 384	Northbound	NY Rte 324 to I-290	3pm-7pm
NY Route 384	Southbound	I-290 to NY Rte324	3pm-7pm
NY Route 400	Northbound	See Page XXXII	
NY Route 400	Southbound	See Page XXXII	
NY Route 425	Northbound	Eggert Rd to Youngs St	7am-9am & 3pm-6pm
NY Route 425	Southbound	Youngs St to Eggert Rd	7am-9am & 3pm-6pm
NY Route 425	Northbound	Youngs St to Niagara CL	3pm-6pm
NY Route 425	Southbound	Niagara CL to Youngs St	7am-9am
Interstate 990	Northbound	See Page XXXIII	
Interstate 990	Southbound	See Page XXXIII	
Walden Ave (952Q)	Eastbound	NY Rte 240 to Interstate 90	3pm-6pm
Walden Ave (952Q)	Westbound	Interstate 90 to NY Rte 240	3pm-6pm
Walden Ave (952Q)	Eastbound	Interstate 90 to NY Rte 277	7am-9am & 3pm-6pm
Walden Ave (952Q)	Westbound	NY Rte 277 to Interstate 90	7am-9am & 3pm-6pm
Walden Ave (952Q)	Eastbound	NY Rte 277 to NY Rte 78	3pm-6pm
Walden Ave (952Q)	Westbound	NY Rte 78 to NY Rte 277	7am-9am

Note: 1) See page XVIII for additional information

WORK ZONE TRAFFIC CONTROL for ALL DURATION OPERATION INVOLVING (TAG-CE1) WORK BEYOND THE SHOULDER ALL ROADWAY TYPES



NOTES:

1. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

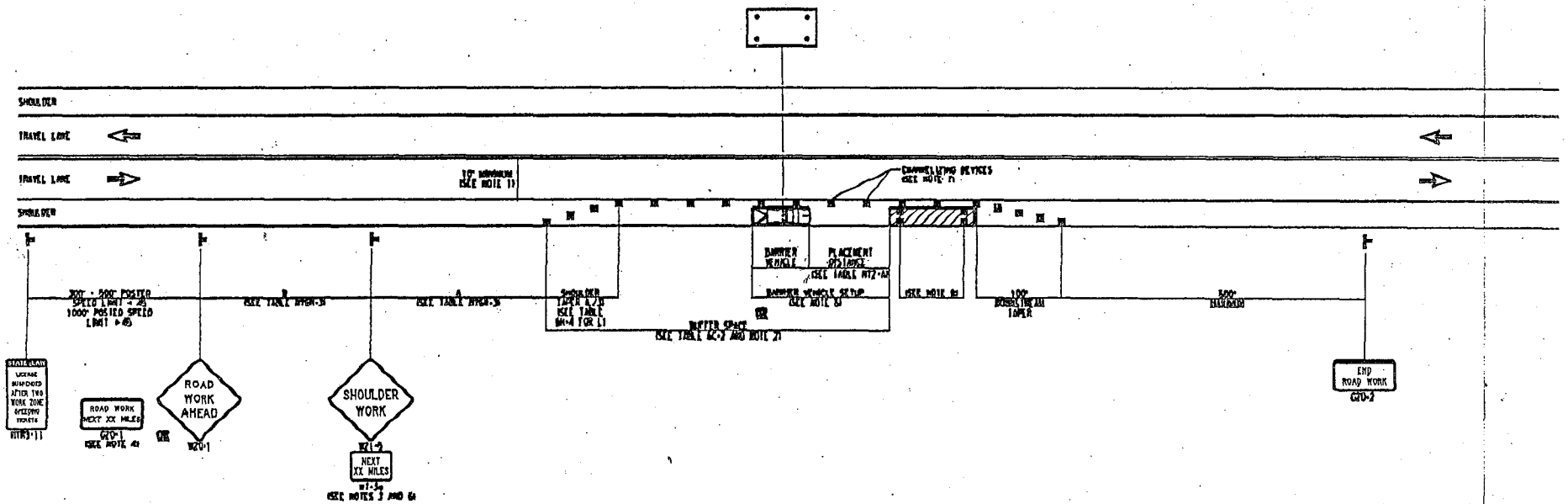
2. The ROAD WORK AHEAD and END ROAD WORK signs may be omitted where: The work space is behind a barrier or guide rail, or more than 2 FT behind the curb or 15 FT or more from the edge of any roadway.

SHOULDER CLOSURE

SHORT OR INTERMEDIATE TERM STATIONARY
2-LANE 2-WAY ROADWAY

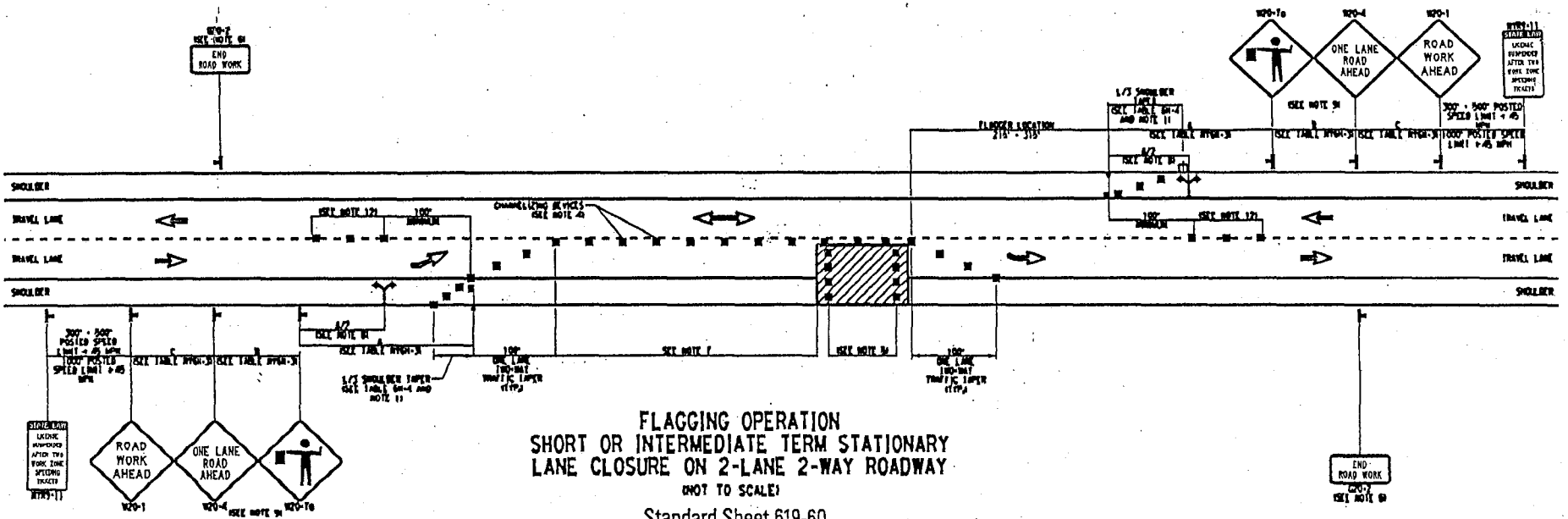
NOT TO SCALE

Standard Sheet 619-20



NOTES:

1. WHEN THE MINIMUM LANE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21-5).
4. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.
7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.



FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

Standard Sheet 619-60

NOTES:

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.

2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.

3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.

5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.

7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.

8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY ½ THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.

9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.

10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.

11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.

12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

PERM.17 (04/07)

NYS DOT ACCOUNT NUMBER

55300

CERTIFICATE OF INSURANCE FOR HIGHWAY WORK PERMIT
TO BE PREPARED BY INSURANCE AGENCY OR INSURANCE COMPANY

THIS CERTIFICATE OF INSURANCE WILL SUPERSEDE ALL OTHER CERTIFICATES OF INSURANCE NOW ON FILE WITH THE NYSDOT AND MUST BE IN EFFECT FOR THE FULL TERM OF THE PERMIT. EXPIRATION OF, OR LACK OF, LIABILITY INSURANCE AUTOMATICALLY INVALIDATES THE PERMIT.

Highway Work Permits: Used for installing and/or maintaining facilities on State right-of-way – coverage in such case shall be written as a protective liability insurance policy and shall also include completed operations liability insurance with respect to liability imposed by laws arising between the date and final cessation of the work pursuant to the Highway Work Permit and the date of final acceptance of such work by the State. Questions 1-6 are to be filled in by permit applicant. The rest of the form is for insurance agent or broker to fill in and agree to.

1. NAME OF PERMIT APPLICANT
   Environmental Restoration, Inc
   (The Legal Name of the Business Entity, i.e., Corporation, Partnership or individuals. **NOTE:** If DBA, also provide Name of Legal Entity and Copy of "Certificate of Conducting Business under an Assumed Name" that was filed in County Clerk's Office.)

2. FEIN Number 23-2623685
   (Federal Employee Identification Number, also known as the IRS Tax Identification Number.)

3. PHYSICAL ADDRESS OF PERMIT APPLICANT
   191 Courtdale Ave, Courtdale, PA 18704
   (Provide street address of principal place of business; may attach additional PERM 17 ATTACHMENT sheet listing physical addresses of branch offices (page (4)), *if application for permits will be for those locations.)*
   ❑ **PLEASE CHECK HERE IF THIS IS A CHANGE OF ADDRESS**

4. MAILING ADDRESS OF PERMIT APPLICANT
   (If different than above) ❑ **PLEASE CHECK HERE IF THIS IS A CHANGE OF ADDRESS**

5. TELEPHONE NUMBER OF PERMIT APPLICANT
   570-331-8191

6. NAME OF PERMIT APPLICANT CONTACT PERSON
   Dave Johns

7. 7a. PROTECTIVE LIABILITY POLICY NUMBER
   ECC101006361
   (See Policy requirements in A or B on reverse) **Binders, and unassigned policy numbers are only valid for 30 days.**

   7b. EFFECTIVE DATE 3/23/12 EXPIRATION DATE 3/23/13
   ❑ **PLEASE CHECK HERE AND SIGN BELOW IF COVERAGE IS CONTINUOUS UNTIL CANCELLED**
   Insurer agrees to notify NYSDOT at least 30 days prior to the expiration or cancellation of said policy.

   (Authorized Signature of Insurance Agent or Broker is Required to indicate agreement to notify NYSDOT)

8. Submit to the New York State Department of Transportation Regional Office where the permit work will occur. If the permit work occurs in multiple Regions submit this form to one Region and the New York State Department of Transportation will coordinate its acceptance. See Page 3 for a Regional listing with addresses.

REVERSE SIDE MUST BE COMPLETED

APPENDIX C

Baseline Air Monitoring

NL/Depew Plant Site
3241 Walden Avenue ROW
Baseline Air Monitoring
08-22-12

Air Monitor	**Day 1 (ug/m^3) (Daily 8-hour Avg.)**	**Day 2 (ug/m^3) (Daily 8-hour Avg.)**	**Day 3 (ug/m^3) (Daily 8-hour Avg.)**
AM-1	17.05	4.58	4.32
AM-2	17.77	4.86	4.86

Avg 3-day Value (ug/m^3)	8.91

Action Level (ug/m^3)	**71.41**

Notes:
1. Air monitors were run to collect a reading at 4-min intervals
2. Air monitor (AM-1) shows beginning start time for the first day as 00:16 (actual time was 11:16). Correct time was adjusted for the following days
3. Action Level calculated from all 6 readings and added to 62.5 (Work Plan)
4. Thermo Scientific pDR Model 4000 Aerosol Monitor are being utilized on the Site

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 0
"Start Time ", 00:12:03
"Start Date ", 16-Aug-2012
"Log Period ", 00:04:00
"Number   ", 122
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 20.627620
"Max MASS @ ", 120 ,08:12:03 ,16-Aug-2012
"Avg MASS   ", 17.052050
"Max Diam   ", 2.051577
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"Avg Diam   ", 1.186244
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
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2,	20.2,	33.9,	44,	1.4056	,00:20:03 ,16-Aug-2012
3,	16.5,	33.9,	43,	0.9866	,00:24:03 ,16-Aug-2012
4,	16.5,	34.0,	41,	0.9416	,00:28:03 ,16-Aug-2012
5,	17.2,	34.0,	41,	1.0785	,00:32:03 ,16-Aug-2012
6,	16.5,	34.1,	40,	1.0083	,00:36:03 ,16-Aug-2012
7,	16.8,	34.1,	40,	1.0025	,00:40:03 ,16-Aug-2012
8,	16.5,	34.2,	40,	1.0479	,00:44:03 ,16-Aug-2012
9,	18.4,	34.2,	39,	1.1015	,00:48:03 ,16-Aug-2012
10,	19.3,	34.3,	39,	1.2374	,00:52:03 ,16-Aug-2012
11,	20.5,	34.4,	39,	1.3717	,00:56:03 ,16-Aug-2012
12,	17.7,	34.5,	39,	1.2003	,01:00:03 ,16-Aug-2012
13,	16.7,	34.6,	37,	1.5220	,01:04:03 ,16-Aug-2012
14,	20.0,	34.7,	37,	1.3279	,01:08:03 ,16-Aug-2012
15,	16.1,	34.9,	37,	1.1685	,01:12:03 ,16-Aug-2012
16,	18.1,	35.0,	36,	1.1607	,01:16:03 ,16-Aug-2012
17,	15.5,	35.1,	35,	1.1450	,01:20:03 ,16-Aug-2012
18,	14.3,	35.2,	34,	1.0518	,01:24:03 ,16-Aug-2012
19,	15.3,	35.3,	34,	1.1168	,01:28:03 ,16-Aug-2012
20,	14.6,	35.5,	33,	1.0633	,01:32:03 ,16-Aug-2012
21,	12.8,	35.6,	33,	0.9906	,01:36:03 ,16-Aug-2012
22,	13.2,	35.7,	33,	0.9285	,01:40:03 ,16-Aug-2012
23,	13.4,	35.8,	32,	0.9484	,01:44:03 ,16-Aug-2012
24,	15.7,	35.9,	32,	2.0159	,01:48:03 ,16-Aug-2012
25,	13.3,	36.0,	31,	1.7554	,01:52:03 ,16-Aug-2012
26,	12.8,	36.1,	30,	1.0641	,01:56:03 ,16-Aug-2012
27,	11.3,	36.2,	30,	1.0291	,02:00:03 ,16-Aug-2012
28,	14.1,	36.2,	30,	1.0638	,02:04:03 ,16-Aug-2012
29,	14.9,	36.3,	30,	1.1402	,02:08:03 ,16-Aug-2012
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31,	16.8,	36.5,	30,	1.2703	,02:16:03 ,16-Aug-2012
32,	18.7,	36.6,	30,	1.4934	,02:20:03 ,16-Aug-2012
33,	15.0,	36.6,	30,	0.9852	,02:24:03 ,16-Aug-2012
34,	16.4,	36.7,	29,	1.5261	,02:28:03 ,16-Aug-2012
35,	16.1,	36.7,	29,	1.4347	,02:32:03 ,16-Aug-2012
36,	14.1,	36.8,	28,	1.2042	,02:36:03 ,16-Aug-2012
37,	12.8,	36.8,	28,	1.1368	,02:40:03 ,16-Aug-2012
38,	14.0,	36.8,	28,	1.0961	,02:44:03 ,16-Aug-2012
39,	13.8,	36.9,	28,	1.0480	,02:48:03 ,16-Aug-2012
40,	14.7,	36.9,	28,	0.9327	,02:52:03 ,16-Aug-2012
41,	15.3,	36.9,	28,	1.1490	,02:56:03 ,16-Aug-2012
42,	15.0,	37.0,	28,	1.1562	,03:00:03 ,16-Aug-2012

43,	14.9,	37.1,	28,	1.0446	,03:04:03	,16-Aug-2012
44,	14.0,	37.1,	28,	0.9399	,03:08:03	,16-Aug-2012
45,	15.1,	37.2,	28,	1.0828	,03:12:03	,16-Aug-2012
46,	15.0,	37.3,	27,	1.0244	,03:16:03	,16-Aug-2012
47,	14.9,	37.4,	27,	1.1975	,03:20:03	,16-Aug-2012
48,	15.6,	37.5,	27,	1.3155	,03:24:03	,16-Aug-2012
49,	14.8,	37.5,	27,	1.1495	,03:28:03	,16-Aug-2012
50,	14.4,	37.6,	27,	1.0607	,03:32:03	,16-Aug-2012
51,	14.5,	37.6,	27,	1.0407	,03:36:03	,16-Aug-2012
52,	15.8,	37.7,	27,	1.1221	,03:40:03	,16-Aug-2012
53,	17.0,	37.8,	27,	1.3927	,03:44:03	,16-Aug-2012
54,	17.3,	37.9,	27,	1.5964	,03:48:03	,16-Aug-2012
55,	15.0,	38.0,	27,	1.2620	,03:52:03	,16-Aug-2012
56,	14.8,	38.1,	27,	1.1036	,03:56:03	,16-Aug-2012
57,	14.5,	38.1,	26,	1.0574	,04:00:03	,16-Aug-2012
58,	15.2,	38.2,	26,	1.1042	,04:04:03	,16-Aug-2012
59,	15.5,	38.2,	26,	1.2057	,04:08:03	,16-Aug-2012
60,	16.2,	38.2,	26,	1.1617	,04:12:03	,16-Aug-2012
61,	15.7,	38.1,	25,	1.1297	,04:16:03	,16-Aug-2012
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63,	16.7,	38.1,	26,	1.3892	,04:24:03	,16-Aug-2012
64,	16.0,	38.1,	25,	1.2304	,04:28:03	,16-Aug-2012
65,	16.2,	38.1,	25,	1.0625	,04:32:03	,16-Aug-2012
66,	17.8,	38.0,	25,	1.2776	,04:36:03	,16-Aug-2012
67,	17.9,	37.9,	25,	1.3229	,04:40:03	,16-Aug-2012
68,	19.1,	37.8,	25,	1.3213	,04:44:03	,16-Aug-2012
69,	19.5,	37.6,	26,	1.3624	,04:48:03	,16-Aug-2012
70,	17.9,	37.4,	26,	1.2136	,04:52:03	,16-Aug-2012
71,	19.5,	37.2,	26,	1.2349	,04:56:03	,16-Aug-2012
72,	18.0,	37.0,	27,	1.0885	,05:00:03	,16-Aug-2012
73,	18.1,	36.8,	27,	1.2282	,05:04:03	,16-Aug-2012
74,	18.6,	36.8,	28,	1.2811	,05:08:03	,16-Aug-2012
75,	19.0,	36.8,	28,	1.2055	,05:12:03	,16-Aug-2012
76,	18.2,	36.9,	28,	1.2229	,05:16:03	,16-Aug-2012
77,	19.1,	36.9,	28,	1.2746	,05:20:03	,16-Aug-2012
78,	17.7,	36.8,	27,	1.2459	,05:24:03	,16-Aug-2012
79,	18.3,	36.6,	27,	1.2409	,05:28:03	,16-Aug-2012
80,	17.9,	36.4,	28,	1.0361	,05:32:03	,16-Aug-2012
81,	18.6,	36.1,	28,	1.2325	,05:36:03	,16-Aug-2012
82,	18.2,	35.8,	29,	1.1788	,05:40:03	,16-Aug-2012
83,	17.8,	35.5,	29,	1.1892	,05:44:03	,16-Aug-2012
84,	18.6,	35.3,	29,	1.3051	,05:48:03	,16-Aug-2012
85,	20.5,	35.0,	29,	1.1678	,05:52:03	,16-Aug-2012
86,	18.7,	34.8,	30,	1.1685	,05:56:03	,16-Aug-2012
87,	18.7,	34.6,	30,	1.1670	,06:00:03	,16-Aug-2012
88,	18.2,	34.5,	30,	1.2904	,06:04:03	,16-Aug-2012
89,	18.6,	34.3,	31,	1.1151	,06:08:03	,16-Aug-2012
90,	18.0,	34.2,	31,	1.1607	,06:12:03	,16-Aug-2012
91,	18.5,	34.1,	32,	1.1948	,06:16:03	,16-Aug-2012
92,	18.4,	34.1,	32,	1.2289	,06:20:03	,16-Aug-2012
93,	18.2,	34.0,	32,	1.0587	,06:24:03	,16-Aug-2012
94,	18.6,	34.0,	33,	1.1781	,06:28:03	,16-Aug-2012
95,	18.3,	34.0,	33,	1.0848	,06:32:03	,16-Aug-2012
96,	19.3,	33.9,	34,	1.1429	,06:36:03	,16-Aug-2012
97,	19.4,	33.9,	34,	1.2023	,06:40:03	,16-Aug-2012
98,	20.5,	33.8,	34,	1.2051	,06:44:03	,16-Aug-2012
99,	19.0,	33.7,	34,	1.1868	,06:48:03	,16-Aug-2012
100,	18.8,	33.6,	35,	1.0072	,06:52:03	,16-Aug-2012
101,	20.2,	33.5,	35,	1.1315	,06:56:03	,16-Aug-2012
102,	18.9,	33.4,	36,	1.0881	,07:00:03	,16-Aug-2012
103,	18.8,	33.2,	36,	1.0903	,07:04:03	,16-Aug-2012
104,	18.9,	33.1,	37,	1.0631	,07:08:03	,16-Aug-2012
105,	18.6,	33.0,	37,	1.0554	,07:12:03	,16-Aug-2012
106,	18.6,	32.9,	38,	0.9315	,07:16:03	,16-Aug-2012
107,	19.4,	32.8,	38,	1.0466	,07:20:03	,16-Aug-2012
108,	18.7,	32.7,	39,	1.0574	,07:24:03	,16-Aug-2012
109,	18.2,	32.6,	39,	1.0716	,07:28:03	,16-Aug-2012

110,	18.3,	32.5,	39,	1.1186	,07:32:03	,16-Aug-2012
111,	17.8,	32.4,	39,	1.1232	,07:36:03	,16-Aug-2012
112,	18.7,	32.3,	39,	1.1308	,07:40:03	,16-Aug-2012
113,	18.1,	32.2,	39,	1.1054	,07:44:03	,16-Aug-2012
114,	18.7,	32.2,	39,	1.3537	,07:48:03	,16-Aug-2012
115,	18.1,	32.2,	39,	1.2718	,07:52:03	,16-Aug-2012
116,	17.8,	32.2,	40,	1.1100	,07:56:03	,16-Aug-2012
117,	19.2,	32.2,	40,	1.4245	,08:00:03	,16-Aug-2012
118,	18.4,	32.2,	40,	1.4297	,08:04:03	,16-Aug-2012
119,	18.5,	32.2,	40,	1.2261	,08:08:03	,16-Aug-2012
120,	20.6,	32.3,	39,	2.0516	,08:12:03	,16-Aug-2012
121,	17.4,	32.3,	39,	1.1245	,08:16:03	,16-Aug-2012
122,	18.3,	32.3,	39,	1.4528	,08:20:03	,16-Aug-2012

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"TEMPUNITS   ", C
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"AZ INTERVAL ", 1
"Errors   ", 0000

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2,	17.3,	30.5,	50,	1.0660	,11:27:49 ,16-Aug-2012
3,	17.7,	30.5,	48,	1.1617	,11:31:49 ,16-Aug-2012
4,	17.3,	30.5,	47,	1.1787	,11:35:49 ,16-Aug-2012
5,	18.7,	30.6,	46,	1.1526	,11:39:49 ,16-Aug-2012
6,	17.8,	30.6,	45,	1.2928	,11:43:49 ,16-Aug-2012
7,	19.2,	30.7,	44,	1.0939	,11:47:49 ,16-Aug-2012
8,	20.6,	30.8,	44,	1.3161	,11:51:49 ,16-Aug-2012
9,	21.3,	30.9,	44,	1.4260	,11:55:49 ,16-Aug-2012
10,	18.8,	31.1,	43,	1.2694	,11:59:49 ,16-Aug-2012
11,	17.9,	31.2,	42,	1.7182	,12:03:49 ,16-Aug-2012
12,	21.2,	31.3,	41,	1.5900	,12:07:49 ,16-Aug-2012
13,	16.8,	31.5,	41,	1.2605	,12:11:49 ,16-Aug-2012
14,	17.2,	31.6,	40,	1.3219	,12:15:49 ,16-Aug-2012
15,	15.8,	31.7,	39,	1.1659	,12:19:49 ,16-Aug-2012
16,	15.1,	31.8,	38,	1.3198	,12:23:49 ,16-Aug-2012
17,	15.8,	32.0,	37,	1.2541	,12:27:49 ,16-Aug-2012
18,	15.0,	32.1,	37,	1.1903	,12:31:49 ,16-Aug-2012
19,	14.0,	32.2,	36,	1.2584	,12:35:49 ,16-Aug-2012
20,	14.2,	32.3,	36,	1.0975	,12:39:49 ,16-Aug-2012
21,	14.3,	32.4,	35,	1.3369	,12:43:49 ,16-Aug-2012
22,	16.7,	32.5,	35,	2.3682	,12:47:49 ,16-Aug-2012
23,	13.7,	32.7,	34,	1.3422	,12:51:49 ,16-Aug-2012
24,	14.1,	32.7,	33,	1.4759	,12:55:49 ,16-Aug-2012
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26,	14.1,	32.9,	32,	1.1920	,13:03:49 ,16-Aug-2012
27,	15.0,	33.0,	33,	1.0556	,13:07:49 ,16-Aug-2012
28,	15.6,	33.1,	33,	1.0760	,13:11:49 ,16-Aug-2012
29,	17.6,	33.1,	32,	1.4003	,13:15:49 ,16-Aug-2012
30,	18.7,	33.2,	32,	1.5254	,13:19:49 ,16-Aug-2012
31,	15.3,	33.2,	32,	1.1439	,13:23:49 ,16-Aug-2012
32,	17.5,	33.3,	32,	1.6307	,13:27:49 ,16-Aug-2012
33,	16.9,	33.4,	31,	2.2931	,13:31:49 ,16-Aug-2012
34,	14.8,	33.4,	31,	1.5735	,13:35:49 ,16-Aug-2012
35,	13.9,	33.5,	30,	1.3672	,13:39:49 ,16-Aug-2012
36,	14.8,	33.5,	30,	1.4271	,13:43:49 ,16-Aug-2012
37,	15.3,	33.6,	31,	1.2829	,13:47:49 ,16-Aug-2012
38,	15.9,	33.6,	31,	1.2472	,13:51:49 ,16-Aug-2012
39,	16.1,	33.6,	31,	1.1221	,13:55:49 ,16-Aug-2012
40,	16.0,	33.7,	31,	1.2944	,13:59:49 ,16-Aug-2012
41,	15.3,	33.8,	30,	1.0903	,14:03:49 ,16-Aug-2012
42,	15.0,	33.9,	30,	1.0515	,14:07:49 ,16-Aug-2012

43,	16.5,	34.0,	30,	1.2552	,14:11:49	,16-Aug-2012
44,	15.8,	34.0,	29,	1.2508	,14:15:49	,16-Aug-2012
45,	15.3,	34.1,	29,	1.1603	,14:19:49	,16-Aug-2012
46,	16.0,	34.1,	29,	1.2108	,14:23:49	,16-Aug-2012
47,	15.3,	34.2,	29,	1.2269	,14:27:49	,16-Aug-2012
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49,	15.3,	34.3,	29,	1.1791	,14:35:49	,16-Aug-2012
50,	16.0,	34.4,	29,	1.3175	,14:39:49	,16-Aug-2012
51,	17.7,	34.5,	29,	1.6246	,14:43:49	,16-Aug-2012
52,	18.6,	34.6,	29,	1.6387	,14:47:49	,16-Aug-2012
53,	15.6,	34.6,	29,	1.2571	,14:51:49	,16-Aug-2012
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56,	16.0,	34.8,	28,	1.2557	,15:03:49	,16-Aug-2012
57,	16.4,	34.8,	28,	1.2071	,15:07:49	,16-Aug-2012
58,	16.4,	34.8,	27,	1.3563	,15:11:49	,16-Aug-2012
59,	16.3,	34.7,	27,	1.3549	,15:15:49	,16-Aug-2012
60,	16.8,	34.7,	27,	1.4797	,15:19:49	,16-Aug-2012
61,	17.2,	34.7,	27,	1.2917	,15:23:49	,16-Aug-2012
62,	16.7,	34.7,	27,	1.4229	,15:27:49	,16-Aug-2012
63,	17.2,	34.7,	27,	1.5636	,15:31:49	,16-Aug-2012
64,	18.0,	34.6,	27,	1.3819	,15:35:49	,16-Aug-2012
65,	18.9,	34.6,	27,	1.5633	,15:39:49	,16-Aug-2012
66,	19.9,	34.5,	27,	1.5300	,15:43:49	,16-Aug-2012
67,	20.2,	34.3,	27,	1.7211	,15:47:49	,16-Aug-2012
68,	18.2,	34.1,	27,	1.2562	,15:51:49	,16-Aug-2012
69,	19.2,	34.0,	28,	1.5020	,15:55:49	,16-Aug-2012
70,	18.7,	33.8,	28,	1.3287	,15:59:49	,16-Aug-2012
71,	18.8,	33.7,	29,	1.1846	,16:03:49	,16-Aug-2012
72,	19.2,	33.7,	29,	1.4130	,16:07:49	,16-Aug-2012
73,	19.8,	33.7,	29,	1.4403	,16:11:49	,16-Aug-2012
74,	19.1,	33.7,	29,	1.3492	,16:15:49	,16-Aug-2012
75,	20.3,	33.7,	29,	1.6018	,16:19:49	,16-Aug-2012
76,	18.8,	33.7,	29,	1.7104	,16:23:49	,16-Aug-2012
77,	19.0,	33.6,	29,	1.3806	,16:27:49	,16-Aug-2012
78,	19.3,	33.4,	29,	1.4464	,16:31:49	,16-Aug-2012
79,	19.9,	33.2,	30,	1.4173	,16:35:49	,16-Aug-2012
80,	19.0,	33.0,	30,	1.3826	,16:39:49	,16-Aug-2012
81,	18.1,	32.7,	30,	1.3540	,16:43:49	,16-Aug-2012
82,	19.3,	32.6,	30,	1.5048	,16:47:49	,16-Aug-2012
83,	20.8,	32.4,	31,	1.3348	,16:51:49	,16-Aug-2012
84,	19.8,	32.2,	31,	1.2818	,16:55:49	,16-Aug-2012
85,	19.5,	32.1,	31,	1.4147	,16:59:49	,16-Aug-2012
86,	18.9,	32.0,	31,	1.2491	,17:03:49	,16-Aug-2012
87,	19.2,	31.9,	32,	1.3384	,17:07:49	,16-Aug-2012
88,	18.7,	31.9,	32,	1.3690	,17:11:49	,16-Aug-2012
89,	19.1,	31.8,	33,	1.2720	,17:15:49	,16-Aug-2012
90,	19.1,	31.8,	33,	1.2332	,17:19:49	,16-Aug-2012
91,	18.8,	31.7,	33,	1.1987	,17:23:49	,16-Aug-2012
92,	18.9,	31.7,	34,	1.1839	,17:27:49	,16-Aug-2012
93,	19.0,	31.7,	34,	1.1896	,17:31:49	,16-Aug-2012
94,	19.5,	31.7,	34,	1.3288	,17:35:49	,16-Aug-2012
95,	19.8,	31.7,	35,	1.2410	,17:39:49	,16-Aug-2012
96,	20.8,	31.6,	35,	1.2691	,17:43:49	,16-Aug-2012
97,	19.4,	31.6,	35,	1.1651	,17:47:49	,16-Aug-2012
98,	19.8,	31.5,	35,	1.1956	,17:51:49	,16-Aug-2012
99,	20.9,	31.4,	36,	1.2263	,17:55:49	,16-Aug-2012
100,	19.4,	31.3,	37,	1.1405	,17:59:49	,16-Aug-2012
101,	19.1,	31.1,	37,	1.1933	,18:03:49	,16-Aug-2012
102,	19.8,	31.0,	37,	1.3208	,18:07:49	,16-Aug-2012
103,	19.7,	31.0,	38,	1.1892	,18:11:49	,16-Aug-2012
104,	19.6,	30.8,	39,	1.1435	,18:15:49	,16-Aug-2012
105,	20.1,	30.7,	39,	1.1676	,18:19:49	,16-Aug-2012
106,	19.0,	30.6,	39,	1.0249	,18:23:49	,16-Aug-2012
107,	19.7,	30.5,	40,	1.3162	,18:27:49	,16-Aug-2012
108,	19.0,	30.4,	40,	1.2817	,18:31:49	,16-Aug-2012
109,	18.3,	30.3,	40,	1.1554	,18:35:49	,16-Aug-2012

110,	18.4,	30.2,	40,	1.2210	,18:39:49	,16-Aug-2012
111,	19.1,	30.1,	40,	1.3101	,18:43:49	,16-Aug-2012
112,	19.4,	30.1,	40,	1.4673	,18:47:49	,16-Aug-2012
113,	18.7,	30.1,	40,	1.2872	,18:51:49	,16-Aug-2012
114,	18.8,	30.1,	41,	1.2874	,18:55:49	,16-Aug-2012
115,	19.4,	30.0,	41,	1.2337	,18:59:49	,16-Aug-2012
116,	19.2,	30.1,	41,	1.3431	,19:03:49	,16-Aug-2012
117,	19.0,	30.0,	41,	1.4096	,19:07:49	,16-Aug-2012
118,	21.2,	30.1,	41,	1.7856	,19:11:49	,16-Aug-2012
119,	18.7,	30.1,	41,	1.3314	,19:15:49	,16-Aug-2012
120,	18.7,	30.1,	40,	1.5431	,19:19:49	,16-Aug-2012
121,	17.9,	30.1,	40,	1.2535	,19:23:49	,16-Aug-2012

"Model Number", "DataRAM 4 ", 104
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"Device no. ", 1
"Tag Number ", 1
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"Start Date ", 17-Aug-2012
"Log Period ", 00:04:00
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"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 11.526260
"Max MASS @ ", 42 ,12:54:19 ,17-Aug-2012
"Avg MASS   ", 4.585256
"Max Diam   ", 4.019183
"Max Diam @ ", 11 ,10:50:19 ,17-Aug-2012
"Avg Diam   ", 1.035784
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 1000

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1,	4.4,	22.1,	49,	0.7958	,10:10:19 ,17-Aug-2012
2,	3.9,	22.1,	54,	1.0227	,10:14:19 ,17-Aug-2012
3,	3.9,	22.2,	57,	0.8922	,10:18:19 ,17-Aug-2012
4,	5.0,	22.2,	59,	1.8443	,10:22:19 ,17-Aug-2012
5,	3.7,	22.2,	60,	0.8714	,10:26:19 ,17-Aug-2012
6,	3.3,	22.3,	61,	0.6455	,10:30:19 ,17-Aug-2012
7,	3.7,	22.4,	62,	0.6549	,10:34:19 ,17-Aug-2012
8,	7.5,	22.4,	63,	0.9931	,10:38:19 ,17-Aug-2012
9,	5.4,	22.5,	63,	1.6825	,10:42:19 ,17-Aug-2012
10,	7.5,	22.7,	63,	3.2720	,10:46:19 ,17-Aug-2012
11,	9.8,	22.8,	64,	4.0192	,10:50:19 ,17-Aug-2012
12,	9.3,	22.9,	64,	3.6697	,10:54:19 ,17-Aug-2012
13,	8.4,	23.1,	64,	3.8956	,10:58:19 ,17-Aug-2012
14,	7.5,	23.2,	64,	2.9990	,11:02:19 ,17-Aug-2012
15,	9.4,	23.4,	63,	3.9195	,11:06:19 ,17-Aug-2012
16,	6.0,	23.6,	63,	1.9807	,11:10:19 ,17-Aug-2012
17,	6.0,	23.9,	63,	1.6857	,11:14:19 ,17-Aug-2012
18,	4.8,	24.1,	62,	1.1453	,11:18:19 ,17-Aug-2012
19,	4.3,	24.4,	61,	0.9706	,11:22:19 ,17-Aug-2012
20,	3.8,	24.7,	61,	0.7027	,11:26:19 ,17-Aug-2012
21,	3.9,	24.8,	60,	0.6357	,11:30:19 ,17-Aug-2012
22,	5.1,	24.9,	60,	1.0483	,11:34:19 ,17-Aug-2012
23,	5.3,	25.0,	60,	1.1275	,11:38:19 ,17-Aug-2012
24,	3.8,	25.1,	60,	0.6305	,11:42:19 ,17-Aug-2012
25,	6.8,	25.2,	60,	1.0974	,11:46:19 ,17-Aug-2012
26,	5.2,	25.3,	60,	0.8581	,11:50:19 ,17-Aug-2012
27,	3.8,	25.4,	59,	0.6129	,11:54:19 ,17-Aug-2012
28,	4.2,	25.4,	59,	0.6806	,11:58:19 ,17-Aug-2012
29,	4.0,	25.5,	59,	0.6297	,12:02:19 ,17-Aug-2012
30,	3.7,	25.5,	59,	0.5683	,12:06:19 ,17-Aug-2012
31,	4.5,	25.6,	59,	0.5387	,12:10:19 ,17-Aug-2012
32,	4.1,	25.6,	58,	0.6499	,12:14:19 ,17-Aug-2012
33,	3.8,	25.7,	58,	0.5484	,12:18:19 ,17-Aug-2012
34,	3.7,	25.7,	58,	0.5434	,12:22:19 ,17-Aug-2012
35,	3.2,	25.8,	58,	0.4646	,12:26:19 ,17-Aug-2012
36,	4.0,	25.9,	57,	0.5768	,12:30:19 ,17-Aug-2012
37,	4.6,	25.9,	57,	0.5283	,12:34:19 ,17-Aug-2012
38,	3.7,	26.0,	57,	0.4844	,12:38:19 ,17-Aug-2012
39,	4.2,	26.0,	57,	0.5665	,12:42:19 ,17-Aug-2012
40,	7.3,	26.1,	56,	1.6489	,12:46:19 ,17-Aug-2012
41,	5.8,	26.2,	55,	0.9786	,12:50:19 ,17-Aug-2012
42,	11.5,	26.4,	55,	3.0920	,12:54:19 ,17-Aug-2012

43,	8.8,	26.5,	55,	3.3975	,12:58:19	,17-Aug-2012
44,	6.9,	26.6,	54,	1.2919	,13:02:19	,17-Aug-2012
45,	7.8,	26.7,	54,	2.0637	,13:06:19	,17-Aug-2012
46,	4.6,	26.9,	54,	0.5600	,13:10:19	,17-Aug-2012
47,	5.3,	27.1,	54,	0.6899	,13:14:19	,17-Aug-2012
48,	4.4,	27.3,	54,	0.5501	,13:18:19	,17-Aug-2012
49,	4.5,	27.5,	53,	0.5079	,13:22:19	,17-Aug-2012
50,	3.5,	27.7,	53,	0.4040	,13:26:19	,17-Aug-2012
51,	3.8,	27.9,	52,	0.4507	,13:30:19	,17-Aug-2012
52,	4.8,	28.1,	51,	0.8676	,13:34:19	,17-Aug-2012
53,	8.2,	28.2,	50,	2.6064	,13:38:19	,17-Aug-2012
54,	6.4,	28.2,	49,	1.8077	,13:42:19	,17-Aug-2012
55,	5.2,	28.3,	49,	0.8784	,13:46:19	,17-Aug-2012
56,	5.3,	28.4,	49,	0.7425	,13:50:19	,17-Aug-2012
57,	4.8,	28.4,	49,	0.8910	,13:54:19	,17-Aug-2012
58,	4.8,	28.5,	48,	0.9572	,13:58:19	,17-Aug-2012
59,	3.6,	28.6,	48,	0.5607	,14:02:19	,17-Aug-2012
60,	5.7,	28.7,	47,	1.4971	,14:06:19	,17-Aug-2012
61,	7.8,	28.9,	47,	2.7336	,14:10:19	,17-Aug-2012
62,	3.7,	29.0,	47,	0.8474	,14:14:19	,17-Aug-2012
63,	6.3,	29.0,	47,	2.1779	,14:18:19	,17-Aug-2012
64,	5.3,	29.0,	47,	1.5702	,14:22:19	,17-Aug-2012
65,	3.1,	29.0,	47,	0.4960	,14:26:19	,17-Aug-2012
66,	2.6,	29.1,	47,	0.5319	,14:30:19	,17-Aug-2012
67,	3.5,	29.1,	46,	0.6164	,14:34:19	,17-Aug-2012
68,	4.2,	29.2,	46,	1.0214	,14:38:19	,17-Aug-2012
69,	5.0,	29.4,	45,	1.3139	,14:42:19	,17-Aug-2012
70,	4.5,	29.4,	45,	0.8052	,14:46:19	,17-Aug-2012
71,	5.8,	29.5,	44,	1.0597	,14:50:19	,17-Aug-2012
72,	5.5,	29.6,	45,	1.1631	,14:54:19	,17-Aug-2012
73,	6.0,	29.6,	45,	1.8110	,14:58:19	,17-Aug-2012
74,	6.7,	29.7,	45,	2.5519	,15:02:19	,17-Aug-2012
75,	4.6,	29.8,	44,	1.1288	,15:06:19	,17-Aug-2012
76,	3.5,	29.9,	44,	0.5515	,15:10:19	,17-Aug-2012
77,	4.2,	30.0,	44,	0.5697	,15:14:19	,17-Aug-2012
78,	4.6,	30.1,	44,	0.7759	,15:18:19	,17-Aug-2012
79,	4.1,	30.1,	43,	0.5979	,15:22:19	,17-Aug-2012
80,	4.7,	30.2,	43,	0.7778	,15:26:19	,17-Aug-2012
81,	6.0,	30.2,	42,	1.0907	,15:30:19	,17-Aug-2012
82,	4.7,	30.3,	42,	0.7008	,15:34:19	,17-Aug-2012
83,	3.7,	30.3,	42,	0.6651	,15:38:19	,17-Aug-2012
84,	3.5,	30.4,	42,	0.5541	,15:42:19	,17-Aug-2012
85,	3.4,	30.4,	42,	0.5616	,15:46:19	,17-Aug-2012
86,	4.0,	30.5,	42,	0.6583	,15:50:19	,17-Aug-2012
87,	4.8,	30.5,	41,	0.7379	,15:54:19	,17-Aug-2012
88,	5.1,	30.5,	41,	1.3139	,15:58:19	,17-Aug-2012
89,	4.3,	30.6,	40,	0.6732	,16:02:19	,17-Aug-2012
90,	3.1,	30.6,	40,	0.4880	,16:06:19	,17-Aug-2012
91,	4.1,	30.6,	40,	0.6610	,16:10:19	,17-Aug-2012
92,	3.4,	30.7,	40,	0.4962	,16:14:19	,17-Aug-2012
93,	3.3,	30.7,	39,	0.5223	,16:18:19	,17-Aug-2012
94,	4.1,	30.7,	38,	0.6339	,16:22:19	,17-Aug-2012
95,	3.1,	30.6,	38,	0.6041	,16:26:19	,17-Aug-2012
96,	2.5,	30.6,	37,	0.5014	,16:30:19	,17-Aug-2012
97,	3.1,	30.6,	38,	0.7526	,16:34:19	,17-Aug-2012
98,	3.2,	30.5,	38,	0.8947	,16:38:19	,17-Aug-2012
99,	2.7,	30.5,	38,	0.5066	,16:42:19	,17-Aug-2012
100,	3.3,	30.4,	39,	0.5722	,16:46:19	,17-Aug-2012
101,	3.2,	30.3,	38,	0.5462	,16:50:19	,17-Aug-2012
102,	2.8,	30.3,	38,	0.6118	,16:54:19	,17-Aug-2012
103,	3.0,	30.3,	39,	0.5704	,16:58:19	,17-Aug-2012
104,	3.1,	30.3,	39,	0.4645	,17:02:19	,17-Aug-2012
105,	3.1,	30.2,	39,	0.5307	,17:06:19	,17-Aug-2012
106,	3.0,	30.2,	39,	0.4659	,17:10:19	,17-Aug-2012
107,	4.1,	30.2,	39,	0.6118	,17:14:19	,17-Aug-2012
108,	4.0,	30.2,	40,	0.7353	,17:18:19	,17-Aug-2012
109,	3.7,	30.2,	40,	0.9653	,17:22:19	,17-Aug-2012

110,	3.6,	30.1,	40,	1.0464	,17:26:19	,17-Aug-2012
111,	3.4,	30.1,	40,	0.7417	,17:30:19	,17-Aug-2012
112,	2.9,	30.0,	41,	0.5839	,17:34:19	,17-Aug-2012
113,	3.0,	30.0,	41,	0.5170	,17:38:19	,17-Aug-2012
114,	2.9,	29.9,	41,	0.4576	,17:42:19	,17-Aug-2012
115,	3.0,	29.8,	41,	0.5041	,17:46:19	,17-Aug-2012
116,	3.1,	29.7,	41,	0.5395	,17:50:19	,17-Aug-2012
117,	2.4,	29.6,	41,	0.4349	,17:54:19	,17-Aug-2012
118,	2.5,	29.5,	41,	0.4490	,17:58:19	,17-Aug-2012
119,	2.6,	29.4,	41,	0.4987	,18:02:19	,17-Aug-2012
120,	2.3,	29.2,	41,	0.5086	,18:06:19	,17-Aug-2012
121,	2.3,	29.1,	42,	0.5274	,18:10:19	,17-Aug-2012
122,	2.6,	29.1,	42,	0.4697	,18:14:19	,17-Aug-2012

"Model Number", "DataRAM 4 ", 104
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"Device no. ", 1
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"Start Date ", 17-Aug-2012
"Log Period ", 00:04:00
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"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 11.144130
"Max MASS @ ", 42 ,12:56:20 ,17-Aug-2012
"Avg MASS   ", 4.866986
"Max Diam   ", 3.321404
"Max Diam @ ", 15 ,11:08:20 ,17-Aug-2012
"Avg Diam   ", 1.009579
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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1,	3.6,	20.3,	46,	0.3573	,10:12:20	,17-Aug-2012
2,	4.2,	20.4,	53,	0.6046	,10:16:20	,17-Aug-2012
3,	4.6,	20.5,	56,	1.0824	,10:20:20	,17-Aug-2012
4,	4.7,	20.5,	59,	0.9729	,10:24:20	,17-Aug-2012
5,	4.2,	20.6,	60,	1.0367	,10:28:20	,17-Aug-2012
6,	4.1,	20.6,	62,	0.7152	,10:32:20	,17-Aug-2012
7,	6.9,	20.7,	62,	1.2659	,10:36:20	,17-Aug-2012
8,	4.6,	20.8,	63,	1.0894	,10:40:20	,17-Aug-2012
9,	6.7,	20.9,	64,	1.9023	,10:44:20	,17-Aug-2012
10,	7.8,	21.0,	64,	2.7269	,10:48:20	,17-Aug-2012
11,	9.8,	21.1,	65,	3.2705	,10:52:20	,17-Aug-2012
12,	7.6,	21.2,	65,	3.0105	,10:56:20	,17-Aug-2012
13,	7.3,	21.4,	65,	2.6675	,11:00:20	,17-Aug-2012
14,	8.1,	21.5,	65,	2.8487	,11:04:20	,17-Aug-2012
15,	8.4,	21.7,	65,	3.3214	,11:08:20	,17-Aug-2012
16,	5.6,	21.9,	65,	1.2608	,11:12:20	,17-Aug-2012
17,	5.9,	22.1,	64,	1.5405	,11:16:20	,17-Aug-2012
18,	4.2,	22.3,	64,	1.0205	,11:20:20	,17-Aug-2012
19,	4.8,	22.6,	63,	0.8705	,11:24:20	,17-Aug-2012
20,	4.1,	22.7,	63,	0.6042	,11:28:20	,17-Aug-2012
21,	4.7,	22.9,	62,	0.9330	,11:32:20	,17-Aug-2012
22,	5.0,	23.0,	62,	0.9945	,11:36:20	,17-Aug-2012
23,	4.4,	23.1,	62,	0.7083	,11:40:20	,17-Aug-2012
24,	3.7,	23.2,	62,	0.5131	,11:44:20	,17-Aug-2012
25,	7.9,	23.3,	62,	1.0989	,11:48:20	,17-Aug-2012
26,	4.6,	23.4,	62,	0.7623	,11:52:20	,17-Aug-2012
27,	4.1,	23.5,	61,	0.6132	,11:56:20	,17-Aug-2012
28,	4.8,	23.6,	61,	0.7119	,12:00:20	,17-Aug-2012
29,	3.8,	23.6,	61,	0.5586	,12:04:20	,17-Aug-2012
30,	4.2,	23.7,	61,	0.6230	,12:08:20	,17-Aug-2012
31,	4.4,	23.8,	60,	0.5776	,12:12:20	,17-Aug-2012
32,	4.1,	23.9,	60,	0.5672	,12:16:20	,17-Aug-2012
33,	3.5,	24.0,	60,	0.5083	,12:20:20	,17-Aug-2012
34,	4.3,	24.0,	59,	0.7416	,12:24:20	,17-Aug-2012
35,	4.1,	24.1,	59,	0.7183	,12:28:20	,17-Aug-2012
36,	4.4,	24.1,	59,	0.7856	,12:32:20	,17-Aug-2012
37,	4.3,	24.2,	58,	0.5572	,12:36:20	,17-Aug-2012
38,	4.1,	24.3,	58,	0.6353	,12:40:20	,17-Aug-2012
39,	5.8,	24.4,	58,	0.8550	,12:44:20	,17-Aug-2012
40,	6.6,	24.5,	57,	1.2926	,12:48:20	,17-Aug-2012
41,	7.2,	24.6,	57,	1.4178	,12:52:20	,17-Aug-2012
42,	11.1,	24.7,	56,	3.2135	,12:56:20	,17-Aug-2012

43,	7.6,	24.8,	56,	1.4409	,13:00:20	,17-Aug-2012
44,	7.1,	24.9,	56,	1.4496	,13:04:20	,17-Aug-2012
45,	5.7,	25.1,	55,	0.8357	,13:08:20	,17-Aug-2012
46,	4.5,	25.2,	55,	0.4924	,13:12:20	,17-Aug-2012
47,	5.3,	25.4,	55,	0.6244	,13:16:20	,17-Aug-2012
48,	4.9,	25.6,	55,	0.6470	,13:20:20	,17-Aug-2012
49,	4.5,	25.8,	54,	0.6282	,13:24:20	,17-Aug-2012
50,	4.4,	26.0,	54,	0.6533	,13:28:20	,17-Aug-2012
51,	5.6,	26.1,	53,	1.5362	,13:32:20	,17-Aug-2012
52,	6.5,	26.3,	52,	1.8617	,13:36:20	,17-Aug-2012
53,	8.0,	26.4,	51,	3.0419	,13:40:20	,17-Aug-2012
54,	5.8,	26.5,	50,	0.8827	,13:44:20	,17-Aug-2012
55,	5.7,	26.5,	50,	0.9935	,13:48:20	,17-Aug-2012
56,	5.8,	26.6,	50,	0.9775	,13:52:20	,17-Aug-2012
57,	5.2,	26.7,	50,	0.7496	,13:56:20	,17-Aug-2012
58,	4.3,	26.8,	49,	0.6801	,14:00:20	,17-Aug-2012
59,	4.6,	26.9,	48,	0.9264	,14:04:20	,17-Aug-2012
60,	8.1,	27.1,	48,	2.6365	,14:08:20	,17-Aug-2012
61,	5.1,	27.2,	47,	1.2361	,14:12:20	,17-Aug-2012
62,	4.4,	27.3,	47,	0.7187	,14:16:20	,17-Aug-2012
63,	6.5,	27.4,	47,	1.7150	,14:20:20	,17-Aug-2012
64,	4.7,	27.4,	48,	0.8812	,14:24:20	,17-Aug-2012
65,	3.6,	27.4,	47,	0.5938	,14:28:20	,17-Aug-2012
66,	3.1,	27.5,	47,	0.5912	,14:32:20	,17-Aug-2012
67,	4.4,	27.6,	47,	0.9792	,14:36:20	,17-Aug-2012
68,	4.4,	27.7,	46,	0.7330	,14:40:20	,17-Aug-2012
69,	5.1,	27.7,	45,	1.4237	,14:44:20	,17-Aug-2012
70,	4.7,	27.8,	45,	0.9360	,14:48:20	,17-Aug-2012
71,	7.1,	27.9,	45,	1.7197	,14:52:20	,17-Aug-2012
72,	4.6,	27.9,	45,	0.8085	,14:56:20	,17-Aug-2012
73,	7.4,	28.0,	45,	2.2015	,15:00:20	,17-Aug-2012
74,	5.7,	28.1,	44,	1.0473	,15:04:20	,17-Aug-2012
75,	4.5,	28.2,	44,	0.7395	,15:08:20	,17-Aug-2012
76,	4.1,	28.2,	44,	0.5167	,15:12:20	,17-Aug-2012
77,	5.7,	28.3,	44,	1.5806	,15:16:20	,17-Aug-2012
78,	3.9,	28.4,	44,	0.6155	,15:20:20	,17-Aug-2012
79,	5.0,	28.4,	43,	0.7028	,15:24:20	,17-Aug-2012
80,	4.8,	28.5,	43,	0.6593	,15:28:20	,17-Aug-2012
81,	6.0,	28.6,	42,	0.9145	,15:32:20	,17-Aug-2012
82,	4.7,	28.6,	42,	0.7819	,15:36:20	,17-Aug-2012
83,	4.2,	28.6,	42,	0.7453	,15:40:20	,17-Aug-2012
84,	4.4,	28.7,	42,	0.6286	,15:44:20	,17-Aug-2012
85,	3.9,	28.7,	42,	0.6838	,15:48:20	,17-Aug-2012
86,	4.7,	28.8,	42,	0.7310	,15:52:20	,17-Aug-2012
87,	5.6,	28.8,	41,	0.9671	,15:56:20	,17-Aug-2012
88,	5.1,	28.9,	41,	0.7553	,16:00:20	,17-Aug-2012
89,	3.8,	28.9,	40,	0.6467	,16:04:20	,17-Aug-2012
90,	3.7,	29.0,	40,	0.6306	,16:08:20	,17-Aug-2012
91,	4.8,	29.0,	40,	1.1481	,16:12:20	,17-Aug-2012
92,	4.0,	29.0,	40,	0.6914	,16:16:20	,17-Aug-2012
93,	3.9,	29.0,	39,	0.7231	,16:20:20	,17-Aug-2012
94,	4.2,	29.0,	38,	0.7251	,16:24:20	,17-Aug-2012
95,	3.1,	29.0,	37,	0.4183	,16:28:20	,17-Aug-2012
96,	3.3,	29.0,	37,	0.5876	,16:32:20	,17-Aug-2012
97,	3.4,	29.0,	37,	0.6053	,16:36:20	,17-Aug-2012
98,	3.6,	29.0,	38,	0.6851	,16:40:20	,17-Aug-2012
99,	3.4,	28.9,	38,	0.6336	,16:44:20	,17-Aug-2012
100,	3.8,	28.9,	38,	0.6315	,16:48:20	,17-Aug-2012
101,	3.1,	28.9,	38,	0.5010	,16:52:20	,17-Aug-2012
102,	3.1,	28.9,	38,	0.5371	,16:56:20	,17-Aug-2012
103,	3.5,	28.8,	38,	0.5540	,17:00:20	,17-Aug-2012
104,	3.6,	28.8,	39,	0.5671	,17:04:20	,17-Aug-2012
105,	3.5,	28.8,	39,	0.6014	,17:08:20	,17-Aug-2012
106,	4.1,	28.8,	39,	1.1545	,17:12:20	,17-Aug-2012
107,	5.3,	28.8,	39,	1.1416	,17:16:20	,17-Aug-2012
108,	3.9,	28.8,	39,	0.7044	,17:20:20	,17-Aug-2012
109,	4.3,	28.8,	39,	0.8636	,17:24:20	,17-Aug-2012

110,	3.8,	28.7,	40,	0.7723	,17:28:20	,17-Aug-2012
111,	3.9,	28.7,	40,	0.7613	,17:32:20	,17-Aug-2012
112,	3.6,	28.7,	40,	0.6966	,17:36:20	,17-Aug-2012
113,	3.5,	28.6,	40,	0.6717	,17:40:20	,17-Aug-2012
114,	3.3,	28.6,	40,	0.5375	,17:44:20	,17-Aug-2012
115,	3.4,	28.6,	40,	0.5697	,17:48:20	,17-Aug-2012
116,	3.0,	28.5,	40,	0.5525	,17:52:20	,17-Aug-2012
117,	3.4,	28.5,	40,	0.7239	,17:56:20	,17-Aug-2012
118,	2.9,	28.4,	40,	0.6488	,18:00:20	,17-Aug-2012
119,	3.1,	28.3,	40,	0.6484	,18:04:20	,17-Aug-2012
120,	3.1,	28.2,	40,	0.9441	,18:08:20	,17-Aug-2012
121,	3.1,	28.2,	41,	0.6608	,18:12:20	,17-Aug-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 08:27:25
"Start Date ", 18-Aug-2012
"Log Period ", 00:04:00
"Number   ", 119
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 6.961657
"Max MASS @ ", 1 ,08:31:25 ,18-Aug-2012
"Avg MASS   ", 4.329161
"Max Diam   ", 1.854531
"Max Diam @ ", 3 ,08:39:25 ,18-Aug-2012
"Avg Diam   ", 0.696167
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	7.0,	22.6,	46,	1.4468	,08:31:25 ,18-Aug-2012
2,	6.8,	22.6,	48,	1.7449	,08:35:25 ,18-Aug-2012
3,	6.3,	22.5,	48,	1.8545	,08:39:25 ,18-Aug-2012
4,	5.1,	22.6,	48,	0.9694	,08:43:25 ,18-Aug-2012
5,	4.7,	22.6,	47,	0.8218	,08:47:25 ,18-Aug-2012
6,	4.2,	22.7,	47,	0.5809	,08:51:25 ,18-Aug-2012
7,	4.0,	22.9,	47,	0.5803	,08:55:25 ,18-Aug-2012
8,	4.2,	23.0,	46,	0.7379	,08:59:25 ,18-Aug-2012
9,	4.2,	23.2,	46,	0.6497	,09:03:25 ,18-Aug-2012
10,	4.2,	23.5,	46,	0.6910	,09:07:25 ,18-Aug-2012
11,	4.3,	23.7,	46,	0.6441	,09:11:25 ,18-Aug-2012
12,	4.4,	24.0,	45,	0.6519	,09:15:25 ,18-Aug-2012
13,	4.6,	24.2,	44,	0.7768	,09:19:25 ,18-Aug-2012
14,	4.6,	24.5,	44,	0.6930	,09:23:25 ,18-Aug-2012
15,	4.8,	24.8,	43,	0.8699	,09:27:25 ,18-Aug-2012
16,	4.8,	25.1,	43,	0.6876	,09:31:25 ,18-Aug-2012
17,	3.9,	25.4,	42,	0.5238	,09:35:25 ,18-Aug-2012
18,	4.4,	25.6,	42,	0.6932	,09:39:25 ,18-Aug-2012
19,	4.7,	25.9,	41,	1.0218	,09:43:25 ,18-Aug-2012
20,	4.9,	26.1,	41,	0.6977	,09:47:25 ,18-Aug-2012
21,	4.7,	26.2,	41,	0.8431	,09:51:25 ,18-Aug-2012
22,	5.4,	26.5,	41,	1.0547	,09:55:25 ,18-Aug-2012
23,	5.3,	26.7,	40,	1.1811	,09:59:25 ,18-Aug-2012
24,	5.0,	26.8,	40,	0.9692	,10:03:25 ,18-Aug-2012
25,	5.3,	26.9,	39,	1.0364	,10:07:25 ,18-Aug-2012
26,	4.8,	27.0,	39,	0.7556	,10:11:25 ,18-Aug-2012
27,	5.0,	27.0,	39,	0.8123	,10:15:25 ,18-Aug-2012
28,	4.7,	27.0,	39,	0.7613	,10:19:25 ,18-Aug-2012
29,	4.8,	26.9,	39,	0.7831	,10:23:25 ,18-Aug-2012
30,	4.9,	26.7,	39,	0.8015	,10:27:25 ,18-Aug-2012
31,	4.9,	26.6,	39,	0.6816	,10:31:25 ,18-Aug-2012
32,	4.8,	26.6,	39,	0.7560	,10:35:25 ,18-Aug-2012
33,	5.0,	26.5,	39,	0.8004	,10:39:25 ,18-Aug-2012
34,	5.3,	26.5,	39,	0.8503	,10:43:25 ,18-Aug-2012
35,	4.6,	26.5,	39,	0.8082	,10:47:25 ,18-Aug-2012
36,	5.2,	26.6,	39,	0.8123	,10:51:25 ,18-Aug-2012
37,	4.7,	26.6,	38,	0.6594	,10:55:25 ,18-Aug-2012
38,	4.6,	26.7,	38,	0.6340	,10:59:25 ,18-Aug-2012
39,	4.8,	26.7,	38,	0.7387	,11:03:25 ,18-Aug-2012
40,	4.8,	26.8,	38,	0.6536	,11:07:25 ,18-Aug-2012
41,	4.8,	26.7,	38,	0.7615	,11:11:25 ,18-Aug-2012
42,	4.7,	26.7,	37,	0.7455	,11:15:25 ,18-Aug-2012

43,	5.3,	26.6,	37,	0.8906	,11:19:25	,18-Aug-2012
44,	5.1,	26.6,	37,	0.8442	,11:23:25	,18-Aug-2012
45,	4.9,	26.6,	37,	1.1373	,11:27:25	,18-Aug-2012
46,	5.2,	26.6,	37,	0.9718	,11:31:25	,18-Aug-2012
47,	4.8,	26.7,	37,	0.6887	,11:35:25	,18-Aug-2012
48,	5.3,	26.8,	37,	0.9651	,11:39:25	,18-Aug-2012
49,	5.3,	26.9,	36,	0.8528	,11:43:25	,18-Aug-2012
50,	4.8,	27.0,	36,	0.7013	,11:47:25	,18-Aug-2012
51,	4.8,	27.0,	36,	0.6783	,11:51:25	,18-Aug-2012
52,	4.9,	27.0,	36,	0.6849	,11:55:25	,18-Aug-2012
53,	4.7,	27.0,	36,	0.7398	,11:59:25	,18-Aug-2012
54,	5.0,	27.1,	36,	0.8940	,12:03:25	,18-Aug-2012
55,	4.8,	27.2,	36,	0.8660	,12:07:25	,18-Aug-2012
56,	4.3,	27.4,	36,	0.6550	,12:11:25	,18-Aug-2012
57,	4.3,	27.4,	35,	0.6749	,12:15:25	,18-Aug-2012
58,	4.8,	27.4,	35,	0.6504	,12:19:25	,18-Aug-2012
59,	4.4,	27.4,	34,	0.6254	,12:23:25	,18-Aug-2012
60,	4.7,	27.5,	34,	0.8066	,12:27:25	,18-Aug-2012
61,	4.7,	27.4,	35,	0.8293	,12:31:25	,18-Aug-2012
62,	5.2,	27.4,	35,	0.8979	,12:35:25	,18-Aug-2012
63,	4.7,	27.3,	36,	0.6848	,12:39:25	,18-Aug-2012
64,	4.9,	27.3,	36,	0.6213	,12:43:25	,18-Aug-2012
65,	4.7,	27.3,	36,	0.6196	,12:47:25	,18-Aug-2012
66,	4.5,	27.3,	36,	0.6185	,12:51:25	,18-Aug-2012
67,	4.7,	27.4,	36,	0.6695	,12:55:25	,18-Aug-2012
68,	4.5,	27.5,	36,	0.7156	,12:59:25	,18-Aug-2012
69,	4.4,	27.7,	36,	0.5618	,13:03:25	,18-Aug-2012
70,	4.6,	27.8,	36,	0.6665	,13:07:25	,18-Aug-2012
71,	5.1,	27.9,	35,	0.9781	,13:11:25	,18-Aug-2012
72,	4.4,	28.1,	35,	0.7831	,13:15:25	,18-Aug-2012
73,	4.1,	28.3,	35,	0.5654	,13:19:25	,18-Aug-2012
74,	4.1,	28.6,	35,	0.8452	,13:23:25	,18-Aug-2012
75,	4.2,	28.8,	34,	0.6814	,13:27:25	,18-Aug-2012
76,	4.2,	29.1,	33,	0.7394	,13:31:25	,18-Aug-2012
77,	4.2,	29.4,	33,	0.5880	,13:35:25	,18-Aug-2012
78,	4.8,	29.7,	32,	0.6425	,13:39:25	,18-Aug-2012
79,	3.9,	29.9,	32,	0.4798	,13:43:25	,18-Aug-2012
80,	4.4,	30.0,	32,	0.6367	,13:47:25	,18-Aug-2012
81,	4.7,	30.1,	31,	0.5831	,13:51:25	,18-Aug-2012
82,	4.1,	30.2,	30,	0.5993	,13:55:25	,18-Aug-2012
83,	4.5,	30.3,	30,	0.6467	,13:59:25	,18-Aug-2012
84,	4.1,	30.4,	29,	0.5260	,14:03:25	,18-Aug-2012
85,	4.1,	30.5,	29,	0.6911	,14:07:25	,18-Aug-2012
86,	3.5,	30.7,	29,	0.5283	,14:11:25	,18-Aug-2012
87,	3.7,	30.9,	28,	0.5333	,14:15:25	,18-Aug-2012
88,	3.6,	31.1,	27,	0.5273	,14:19:25	,18-Aug-2012
89,	3.2,	31.3,	27,	0.4527	,14:23:25	,18-Aug-2012
90,	3.1,	31.6,	28,	0.4748	,14:27:25	,18-Aug-2012
91,	4.0,	31.9,	28,	0.5328	,14:31:25	,18-Aug-2012
92,	3.0,	32.2,	27,	0.3978	,14:35:25	,18-Aug-2012
93,	3.4,	32.5,	27,	0.4623	,14:39:25	,18-Aug-2012
94,	3.1,	32.6,	26,	0.4591	,14:43:25	,18-Aug-2012
95,	3.2,	32.7,	26,	0.4724	,14:47:25	,18-Aug-2012
96,	2.9,	32.8,	26,	0.4845	,14:51:25	,18-Aug-2012
97,	3.0,	33.0,	26,	0.4806	,14:55:25	,18-Aug-2012
98,	3.0,	33.1,	26,	0.5579	,14:59:25	,18-Aug-2012
99,	3.2,	33.2,	26,	0.5121	,15:03:25	,18-Aug-2012
100,	3.4,	33.3,	26,	0.4699	,15:07:25	,18-Aug-2012
101,	3.0,	33.3,	26,	0.4627	,15:11:25	,18-Aug-2012
102,	3.5,	33.3,	26,	0.4809	,15:15:25	,18-Aug-2012
103,	3.0,	33.3,	26,	0.4843	,15:19:25	,18-Aug-2012
104,	3.6,	33.4,	26,	0.5438	,15:23:25	,18-Aug-2012
105,	3.4,	33.4,	26,	0.4635	,15:27:25	,18-Aug-2012
106,	3.3,	33.5,	27,	0.4345	,15:31:25	,18-Aug-2012
107,	3.2,	33.5,	27,	0.4197	,15:35:25	,18-Aug-2012
108,	3.1,	33.5,	27,	0.4318	,15:39:25	,18-Aug-2012
109,	3.7,	33.5,	27,	0.5464	,15:43:25	,18-Aug-2012

110,	3.4,	33.4,	27,	0.5437	,15:47:25	,18-Aug-2012
111,	3.5,	33.2,	27,	0.5806	,15:51:25	,18-Aug-2012
112,	3.8,	33.1,	27,	0.5224	,15:55:25	,18-Aug-2012
113,	3.2,	32.9,	27,	0.4500	,15:59:25	,18-Aug-2012
114,	3.5,	32.7,	27,	0.4916	,16:03:25	,18-Aug-2012
115,	3.2,	32.5,	27,	0.4689	,16:07:25	,18-Aug-2012
116,	3.0,	32.4,	27,	0.3970	,16:11:25	,18-Aug-2012
117,	2.7,	32.3,	27,	0.4090	,16:15:25	,18-Aug-2012
118,	3.3,	32.2,	27,	0.5191	,16:19:25	,18-Aug-2012
119,	3.1,	32.1,	28,	0.4137	,16:23:25	,18-Aug-2012

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"Device no. ", 1
"Tag Number ", 2
"Start Time ", 08:23:50
"Start Date ", 18-Aug-2012
"Log Period ", 00:04:00
"Number   ", 120
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 7.324323
"Max MASS @ ", 1 ,08:27:50 ,18-Aug-2012
"Avg MASS   ", 4.865685
"Max Diam   ", 2.066034
"Max Diam @ ", 1 ,08:27:50 ,18-Aug-2012
"Avg Diam   ", 0.907887
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0100

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	7.3,	21.0,	45,	2.0660	,08:27:50 ,18-Aug-2012
2,	7.2,	21.0,	46,	1.9419	,08:31:50 ,18-Aug-2012
3,	6.9,	21.0,	47,	2.0213	,08:35:50 ,18-Aug-2012
4,	6.1,	21.0,	47,	1.1227	,08:39:50 ,18-Aug-2012
5,	5.5,	21.1,	47,	1.0627	,08:43:50 ,18-Aug-2012
6,	5.1,	21.1,	46,	0.9042	,08:47:50 ,18-Aug-2012
7,	4.6,	21.2,	46,	0.7691	,08:51:50 ,18-Aug-2012
8,	4.4,	21.4,	45,	0.7238	,08:55:50 ,18-Aug-2012
9,	4.7,	21.5,	45,	1.0862	,08:59:50 ,18-Aug-2012
10,	4.3,	21.6,	45,	0.7793	,09:03:50 ,18-Aug-2012
11,	4.6,	21.8,	44,	0.8430	,09:07:50 ,18-Aug-2012
12,	4.6,	22.0,	44,	0.7543	,09:11:50 ,18-Aug-2012
13,	5.9,	22.1,	44,	1.2436	,09:15:50 ,18-Aug-2012
14,	4.8,	22.3,	43,	0.7356	,09:19:50 ,18-Aug-2012
15,	4.3,	22.5,	43,	0.6116	,09:23:50 ,18-Aug-2012
16,	4.9,	22.7,	43,	0.8425	,09:27:50 ,18-Aug-2012
17,	5.4,	22.9,	42,	1.3361	,09:31:50 ,18-Aug-2012
18,	5.0,	23.1,	42,	1.0286	,09:35:50 ,18-Aug-2012
19,	4.9,	23.4,	41,	0.8097	,09:39:50 ,18-Aug-2012
20,	5.2,	23.6,	41,	0.9292	,09:43:50 ,18-Aug-2012
21,	5.0,	23.7,	40,	0.7417	,09:47:50 ,18-Aug-2012
22,	5.3,	23.9,	40,	0.9210	,09:51:50 ,18-Aug-2012
23,	5.3,	24.1,	40,	0.9754	,09:55:50 ,18-Aug-2012
24,	6.2,	24.2,	40,	1.7711	,09:59:50 ,18-Aug-2012
25,	5.3,	24.4,	40,	1.1163	,10:03:50 ,18-Aug-2012
26,	5.7,	24.5,	39,	1.2778	,10:07:50 ,18-Aug-2012
27,	5.3,	24.6,	39,	1.1877	,10:11:50 ,18-Aug-2012
28,	5.6,	24.7,	39,	1.1266	,10:15:50 ,18-Aug-2012
29,	5.2,	24.7,	39,	0.9072	,10:19:50 ,18-Aug-2012
30,	5.6,	24.7,	39,	1.1445	,10:23:50 ,18-Aug-2012
31,	5.6,	24.6,	38,	1.1556	,10:27:50 ,18-Aug-2012
32,	5.4,	24.6,	39,	1.2280	,10:31:50 ,18-Aug-2012
33,	5.2,	24.5,	38,	1.1521	,10:35:50 ,18-Aug-2012
34,	5.7,	24.5,	38,	1.1348	,10:39:50 ,18-Aug-2012
35,	5.4,	24.5,	38,	0.9646	,10:43:50 ,18-Aug-2012
36,	5.5,	24.6,	38,	1.1250	,10:47:50 ,18-Aug-2012
37,	5.8,	24.6,	38,	1.3039	,10:51:50 ,18-Aug-2012
38,	4.9,	24.6,	38,	0.8146	,10:55:50 ,18-Aug-2012
39,	5.0,	24.7,	38,	0.7697	,10:59:50 ,18-Aug-2012
40,	5.5,	24.7,	38,	0.9389	,11:03:50 ,18-Aug-2012
41,	5.6,	24.7,	37,	1.0185	,11:07:50 ,18-Aug-2012
42,	5.6,	24.8,	37,	1.0445	,11:11:50 ,18-Aug-2012

43,	5.3,	24.8,	37,	0.9563	,11:15:50	,18-Aug-2012
44,	6.5,	24.7,	36,	1.0311	,11:19:50	,18-Aug-2012
45,	5.6,	24.7,	36,	1.0796	,11:23:50	,18-Aug-2012
46,	5.2,	24.7,	37,	0.8507	,11:27:50	,18-Aug-2012
47,	5.2,	24.8,	36,	0.7965	,11:31:50	,18-Aug-2012
48,	5.2,	24.8,	36,	0.9294	,11:35:50	,18-Aug-2012
49,	6.0,	24.9,	36,	1.3552	,11:39:50	,18-Aug-2012
50,	5.7,	25.0,	36,	1.0852	,11:43:50	,18-Aug-2012
51,	5.4,	25.1,	36,	0.8836	,11:47:50	,18-Aug-2012
52,	5.2,	25.1,	35,	0.8350	,11:51:50	,18-Aug-2012
53,	5.3,	25.1,	35,	0.9481	,11:55:50	,18-Aug-2012
54,	5.3,	25.1,	35,	0.8802	,11:59:50	,18-Aug-2012
55,	5.1,	25.1,	35,	0.8074	,12:03:50	,18-Aug-2012
56,	5.0,	25.2,	35,	0.7188	,12:07:50	,18-Aug-2012
57,	5.0,	25.3,	35,	0.8839	,12:11:50	,18-Aug-2012
58,	5.0,	25.3,	34,	0.9722	,12:15:50	,18-Aug-2012
59,	5.0,	25.3,	34,	0.7784	,12:19:50	,18-Aug-2012
60,	5.2,	25.3,	34,	0.9634	,12:23:50	,18-Aug-2012
61,	5.4,	25.4,	34,	1.0180	,12:27:50	,18-Aug-2012
62,	5.2,	25.4,	34,	0.8738	,12:31:50	,18-Aug-2012
63,	5.3,	25.3,	34,	0.8471	,12:35:50	,18-Aug-2012
64,	5.1,	25.3,	35,	0.8526	,12:39:50	,18-Aug-2012
65,	5.3,	25.3,	35,	0.8469	,12:43:50	,18-Aug-2012
66,	5.5,	25.3,	36,	1.0732	,12:47:50	,18-Aug-2012
67,	5.3,	25.3,	35,	0.9160	,12:51:50	,18-Aug-2012
68,	5.6,	25.3,	36,	1.2602	,12:55:50	,18-Aug-2012
69,	5.1,	25.4,	36,	0.9657	,12:59:50	,18-Aug-2012
70,	5.2,	25.5,	36,	0.9018	,13:03:50	,18-Aug-2012
71,	5.1,	25.6,	36,	0.9708	,13:07:50	,18-Aug-2012
72,	5.6,	25.7,	35,	1.1755	,13:11:50	,18-Aug-2012
73,	5.0,	25.8,	35,	0.9404	,13:15:50	,18-Aug-2012
74,	4.9,	26.0,	35,	0.8892	,13:19:50	,18-Aug-2012
75,	4.4,	26.2,	34,	0.7250	,13:23:50	,18-Aug-2012
76,	4.6,	26.4,	33,	0.7738	,13:27:50	,18-Aug-2012
77,	4.9,	26.6,	33,	0.8487	,13:31:50	,18-Aug-2012
78,	4.7,	26.9,	33,	0.8410	,13:35:50	,18-Aug-2012
79,	4.4,	27.2,	32,	0.6464	,13:39:50	,18-Aug-2012
80,	4.7,	27.4,	32,	0.6999	,13:43:50	,18-Aug-2012
81,	5.4,	27.5,	32,	1.1603	,13:47:50	,18-Aug-2012
82,	5.3,	27.6,	31,	1.1461	,13:51:50	,18-Aug-2012
83,	4.7,	27.7,	31,	0.8029	,13:55:50	,18-Aug-2012
84,	5.1,	27.8,	30,	0.7806	,13:59:50	,18-Aug-2012
85,	4.6,	28.0,	29,	0.7982	,14:03:50	,18-Aug-2012
86,	4.5,	28.1,	29,	0.7361	,14:07:50	,18-Aug-2012
87,	4.3,	28.3,	29,	0.6789	,14:11:50	,18-Aug-2012
88,	4.3,	28.5,	28,	0.7030	,14:15:50	,18-Aug-2012
89,	4.1,	28.8,	27,	0.6596	,14:19:50	,18-Aug-2012
90,	3.9,	29.0,	27,	0.5293	,14:23:50	,18-Aug-2012
91,	3.3,	29.3,	28,	0.4803	,14:27:50	,18-Aug-2012
92,	4.3,	29.6,	27,	0.7818	,14:31:50	,18-Aug-2012
93,	4.1,	29.8,	27,	0.7915	,14:35:50	,18-Aug-2012
94,	3.8,	30.1,	26,	0.6875	,14:39:50	,18-Aug-2012
95,	3.7,	30.2,	26,	0.6722	,14:43:50	,18-Aug-2012
96,	3.7,	30.4,	26,	0.6634	,14:47:50	,18-Aug-2012
97,	3.8,	30.5,	26,	0.8064	,14:51:50	,18-Aug-2012
98,	3.5,	30.6,	26,	0.5851	,14:55:50	,18-Aug-2012
99,	3.4,	30.8,	26,	0.6192	,14:59:50	,18-Aug-2012
100,	3.8,	31.0,	26,	0.6549	,15:03:50	,18-Aug-2012
101,	3.8,	31.1,	26,	0.6178	,15:07:50	,18-Aug-2012
102,	4.0,	31.1,	26,	0.7020	,15:11:50	,18-Aug-2012
103,	3.8,	31.1,	25,	0.5618	,15:15:50	,18-Aug-2012
104,	3.6,	31.2,	25,	0.5334	,15:19:50	,18-Aug-2012
105,	3.7,	31.3,	25,	0.6103	,15:23:50	,18-Aug-2012
106,	3.6,	31.4,	26,	0.5217	,15:27:50	,18-Aug-2012
107,	3.9,	31.5,	26,	0.7198	,15:31:50	,18-Aug-2012
108,	3.8,	31.5,	26,	0.5791	,15:35:50	,18-Aug-2012
109,	4.1,	31.5,	26,	0.7542	,15:39:50	,18-Aug-2012

110,	4.2,	31.5,	26,	0.8071	,15:43:50	,18-Aug-2012
111,	4.0,	31.5,	26,	0.8033	,15:47:50	,18-Aug-2012
112,	4.4,	31.4,	26,	0.9344	,15:51:50	,18-Aug-2012
113,	4.2,	31.3,	26,	0.9005	,15:55:50	,18-Aug-2012
114,	4.0,	31.2,	26,	0.8075	,15:59:50	,18-Aug-2012
115,	3.4,	31.1,	26,	0.5552	,16:03:50	,18-Aug-2012
116,	4.0,	31.0,	26,	0.6478	,16:07:50	,18-Aug-2012
117,	3.5,	30.9,	26,	0.5563	,16:11:50	,18-Aug-2012
118,	3.7,	30.8,	26,	0.6426	,16:15:50	,18-Aug-2012
119,	3.9,	30.7,	26,	0.7777	,16:19:50	,18-Aug-2012
120,	4.4,	30.6,	26,	0.9241	,16:23:50	,18-Aug-2012

APPENDIX D

Reporting

ADVANCED GeoServices
Engineering for the Environment. Planning for People.™
1055 Andrew Drive, Suite A
West Chester, PA 19380-4293
tel 610.840.9100 fax 610.840.9199
www.advancedgeoservices.com

August 17, 2012 NY02-927

Arlene R. Anderson, OSC
USEPA- Region 2
2890 Woodbridge Ave, MS-211
Edison, NJ 08837

RE: NL Industries/Buffalo Plant Site CERCLA-02-2012-2007
3241 Walden Avenue Right-of-Way Project
Bi-Weekly Report August 16, 2012

Dear Ms. Anderson,

Please find attached the first bi-weekly report for the above mentioned project. Please call if you have any questions.

Very truly yours,

ADVANCED GEOSERVICES

Kevin O'Rourke
Project Coordinator

cc: Dan Harkay, USEPA
Kevin Lombardozzi, NL Industries, Inc.
Chris Reitman, Advanced GeoServices

1st Bi-Weekly Report - August 16, 2012

NL Industries/Buffalo Plant Superfund Site CERCLA -02-2012-2007

3241 Walden Avenue Right-of-Way Project

A: Actions taken to toward achieving compliance:

- A Pre-Construction conference call took place between USEPA (EPA), NL Industries, Inc. (NL), Advanced GeoServices Engineering, P.C. (AGE), Environmental Restoration Inc. (ERI) on August 2, 2012 to discuss the following:
  - Schedule
  - Health and Safety Plan (HASP) submission
  - Project Coordinator and Contractor submissions
  - Insurance certifications and Financial Assurance
  - Communications
  - NYSDOT Highway Construction Permit status
  - Cascades and Municipal notification

- AGE attempted to contact Cascades to inform them of the upcoming remediation work.
  - Tom Derkovitz (Cascades Plant Manager) was contacted via telephoned on August 2, and 16, 2012.
  - AGE issued the Work Plan to Tom Derkovitz for review.
  - No return contact was received by AGE from Cascades.

B: Results of sampling:

- August 16, 2012 – Received topsoil analysis results under review.

C: Work plans and deliverables completed:

- NL submitted Project Coordinator and Contractor (ERI) information/qualifications to EPA on August 10, 2012.
- NL submitted the HASP to EPA for review on August 10, 2012.
- ERI received the approved NYSDOT Highway Construction Permit on August 9, 2012.

D: Descriptions of all actions:

- ERI contact NY Dig Safely on August 9, 2012 to utility mark out in the ROW.
- AGE mobilized to the Site on August 16, 2012 to perform baseline air monitoring.
- ERI mobilized to the site on August 9, 2012 to begin mowing the work area.
- August 16, 2012 – Met with Tom Derkowitz of Cascades regarding coordination with the adjacent plant.
- August 16, 2012 – Met on-site in a pre-construction meeting attended by Bobby Deas (EPA), Mike Dominic (ERI), Kevin Lombardozzi (NL Industries), and Dave Benson (AGE).
- August 16, 2012 – Started baseline air monitoring.
- August 16, 2012 – Reviewed topsoil analysis.

E: Percentage of Completion: 5% complete **(Assuming the pre-construction work constitutes the 5%)**

F: Modifications to Work Plan:

- No modifications

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West Chester, PA 19380-4293
tel 610-840-9100 fax 610-840-9199
www.advancedgeoservices.com

August 31, 2012 NY02-927

Arlene R. Anderson, OSC
USEPA- Region 2
2890 Woodbridge Ave, MS-211
Edison, NJ 08837

RE: NL Industries/Buffalo Plant Site CERCLA-02-2012-2007
3241 Walden Avenue Right-of-Way Project
Bi-Weekly Report August 30, 2012

Dear Ms. Anderson,

Please find attached the bi-weekly report for the above mentioned project. Please call if you have any questions.

Respectfully,

ADVANCED GEOSERVICES

Kevin O'Rourke
Project Coordinator

cc: Dan Harkay, USEPA
Kevin Lombardozzi, NL Industries, Inc.
Chris Reitman, Advanced GeoServices

NL Industries/Buffalo Plant Superfund Site CERCLA-02-2012-2007

3241 Walden Avenue Right-of-Way Project

Bi-Weekly Report August 31, 2012

A: Actions taken to toward achieving compliance:

- AGE performed the baseline air monitoring on August 16 through 18, 2012. The action level for dust issues was determined to be 71.41 ug/m^3 (Table and results attached).
- ERI mobilized to the Site on August 23, 2012 and began ROW remediation activities on the eastern end of the Site.

B: Results of sampling:

- Topsoil source sampling results were received on August 24, 2012 and reviewed. The material meets the NYSDEC Unrestricted Use Soil Cleanup Objectives. Topsoil Results are attached.

C: Work plans and deliverables completed:

- Air monitoring baseline results submitted to EPA on August 22, 2012.
- Topsoil information submitted to EPA on August 27, 2012.
- AGE provided NYSDOT with the final approved Work Plan including the Operations and Maintenance Plan August 28, 2012.

D: Descriptions of all actions:

- ERI began remedial operations on the eastern end of the Site. Work performed was consistent with the Work Plan. Photographs of activities are provided as an attachment. The following activities were performed.
    - Grading of impacted soil;
    - Placement of geogrid and pavers;
    - Hydroseeding and erosion control matting installation; and
    - Silt sock installation.
    - Placement of geogrid, geotextile and 4-inch riprap in an erosion area due to neglected roof drains.
- AGE performed air monitoring daily during impacted material disturbance activities. No action level exceedances were noted. Air monitoring data will be provided in the Daily Filed Reports
- AGE met with NYSDEC and NYSDOT to discuss future work within the ROW. DOT requested a copy of the approved Work Plan including Operations and Maintenance Plan.

- AGE met with NYSDOT to review the lane closure and traffic activities, No issues were noted.

E: Percentage of Completion: 30% complete.

ERI will demobilize for the Labor Day Holiday weekend and return to continue activities on September 4, 2012. All disturbed areas were restored. One stockpile of impacted material was left in the ROW. The stockpile was covered with geogrid and silt socks were placed on the perimeter.

F: Modifications to Work Plan:

- Three minor modifications/improvements were submitted to EPA. AGE discussed the modifications with NYSDOT, Cascades and the Village of Depew and there were no concerns with the modifications. The modifications/improvements are discussed below.

  - The ROW west of the stormwater basin (see attachment): The stormwater from the Cascades property was understood to flow across the fence line into the ROW. As such, the design required a 2-inch cut along the fence to allow this water to continue to flow as existing conditions. However, based on visual observation, the Cascades property is approximately 6-10 inches below the ROW grades. The modification is to grade the ROW to drain by sheet flow to the curb, place the geogrid and paver without excavation. Topsoil/hydroseed and ECM would then be placed. Essentially, the Type 1 areas will be treated as Type 4 areas in this section of the ROW. Type 2 and Type 3 areas will remain as designed.

  - An area adjacent to the building is experiencing erosion due to the lack of roof drains. To address this area, ERI has graded the area and placed the geogrid, a geotextile and 4-inch rip rap over the geogrid. No paver or topsoil was placed in this area. The approximate location is shown on the attachment.

  - Along each driveway that leads into the Cascades property, truck traffic erodes the adjacent grassy areas. In order to provide a more stable area and remove the possibility of truck tires destroying newly established turf. ERI will grade the areas and place geogrid and pavers. However, a modified stone material will be placed within the paver and one inch above. This will be a minimum of 18 inches offset from the driveways.

PHOTO LOG

Photograph Log

Synteen SR-18 Geogrid Placed with Air Monitor (background)

Synteen SR-18 Geogrid Placed with Silt Sock installed

EZ-Paver installed

Topsoil Placement over Paver

Topsoil Placement over Paver

Stone placement adjacent to driveway

UDS LEVEL 2 FINAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-24091-1
Client Project/Site: Depew ROW

For:
Environmental Restoration, Inc.
191 Courtdale Avenue
Courtdale, Pennsylvania 18704

Attn: Mr. Michael P Domenick

Melissa Deyo

Authorized for release by:
8/24/2012 1:49:59 PM

Melissa Deyo
Project Manager I
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-24091-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-24091-1

Receipt
The sample was received on 8/17/2012 2:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 17.0º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following sample was diluted due to the nature of the sample matrix: Topsoil #2 (480-24091-1). Elevated reporting limits (RLs) are provided..

No other analytical or quality issues were noted.

GC Semi VOA
Method 8081A: The following sample was diluted due to the color of the sample: Topsoil #2 (480-24091-1). As such, surrogate recoveries are not representative and elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The method blank for preparation batch 77341 contained Lead and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 77341 was outside control limits for Manganese. Non-homogeneity of the sample matrix was suspected. The associated laboratory control sample (LCSSRM) met acceptance criteria; therefore, no corrective action was necessary.

No other analytical or quality issues were noted.

General Chemistry
Method 9012A: The matrix spike (MS) recovery for batch 77598 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
Method 3550B: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences prior to analysis method 8081A: Topsoil #2 (480-24091-1).

No other analytical or quality issues were noted.

Detection Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2 — Lab Sample ID: 480-24091-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	92	J	970	25	ug/Kg	5	☼	8270C	Total/NA
Benzo(a)anthracene	480	J	970	17	ug/Kg	5	☼	8270C	Total/NA
Benzo(a)pyrene	520	J	970	23	ug/Kg	5	☼	8270C	Total/NA
Benzo(b)fluoranthene	630	J	970	19	ug/Kg	5	☼	8270C	Total/NA
Benzo(g,h,i)perylene	280	J	970	12	ug/Kg	5	☼	8270C	Total/NA
Benzo(k)fluoranthene	360	J	970	11	ug/Kg	5	☼	8270C	Total/NA
Chrysene	560	J	970	9.6	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	78	J	970	11	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	1000		970	14	ug/Kg	5	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	240	J	970	27	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	430	J	970	20	ug/Kg	5	☼	8270C	Total/NA
Pyrene	760	J	970	6.2	ug/Kg	5	☼	8270C	Total/NA
Arsenic	6.6		2.5	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	72.5		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.25	0.035	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42		0.25	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	14.7		0.63	0.25	mg/Kg	1	☼	6010B	Total/NA
Copper	19.9		1.3	0.26	mg/Kg	1	☼	6010B	Total/NA
Lead	37.9	B	1.3	0.30	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.25	0.040	mg/Kg	1	☼	6010B	Total/NA
Nickel	17.2		6.3	0.29	mg/Kg	1	☼	6010B	Total/NA
Zinc	80.9	B	2.5	0.19	mg/Kg	1	☼	6010B	Total/NA
Total Mercury	0.051		0.022	0.0091	mg/Kg	1	☼	7471A	Total/NA
% Organic Matter	92.5		0.020	0.010	%	1		SM 2540G	Total/NA
Loss on Ignition (LOI)	7.5		0.020	0.010	%	1		SM 2540G	Total/NA
Phosphorus	383		20.0	8.0	mg/Kg	50	☼	SM 4500 P E	Total/NA
Ammonia	9.6		4.0	2.0	mg/Kg	1		350.1	ASTM
Nitrate Nitrite as N	34.8		1.0	0.0060	mg/Kg	1		353.2	ASTM

Client Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Lab Sample ID: 480-24091-1

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.8	0.42	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,1-Dichloroethane	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,1-Dichloroethene	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2,4-Trimethylbenzene	ND		5.8	1.1	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2-Dichlorobenzene	ND		5.8	0.45	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2-Dichloroethane	ND		5.8	0.29	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,3,5-Trimethylbenzene	ND		5.8	0.37	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,3-Dichlorobenzene	ND		5.8	0.30	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,4-Dichlorobenzene	ND		5.8	0.81	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,4-Dioxane	ND		230	28	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Acetone	ND		29	4.9	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Benzene	ND		5.8	0.28	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Carbon tetrachloride	ND		5.8	0.56	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Chlorobenzene	ND		5.8	0.77	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Chloroform	ND		5.8	0.36	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
cis-1,2-Dichloroethene	ND		5.8	0.74	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Ethylbenzene	ND		5.8	0.40	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methyl Ethyl Ketone	ND		29	2.1	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methyl tert-butyl ether	ND		5.8	0.57	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methylene Chloride	ND		5.8	2.7	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
n-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
n-Propylbenzene	ND		5.8	0.46	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
sec-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
tert-Butylbenzene	ND		5.8	0.60	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Tetrachloroethene	ND		5.8	0.78	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Toluene	ND		5.8	0.44	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
trans-1,2-Dichloroethene	ND		5.8	0.60	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Trichloroethene	ND		5.8	1.3	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Vinyl chloride	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Xylenes, Total	ND		12	0.97	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*	*08/20/12 10:22*	*08/20/12 20:40*	*1*
Toluene-d8 (Surr)	*87*		*71 - 125*	*08/20/12 10:22*	*08/20/12 20:40*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 126*	*08/20/12 10:22*	*08/20/12 20:40*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Acenaphthylene	ND		970	7.8	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Anthracene	**92**	**J**	970	25	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(a)anthracene	**480**	**J**	970	17	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(a)pyrene	**520**	**J**	970	23	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(b)fluoranthene	**630**	**J**	970	19	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(g,h,i)perylene	**280**	**J**	970	12	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(k)fluoranthene	**360**	**J**	970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Chrysene	**560**	**J**	970	9.6	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Dibenz(a,h)anthracene	**78**	**J**	970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Dibenzofuran	ND		970	10	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Fluoranthene	**1000**		970	14	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Fluorene	ND		970	22	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5

Client Sample ID: Topsoil #2

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Lab Sample ID: 480-24091-1

Matrix: Solid
Percent Solids: 86.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		970	48	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Indeno(1,2,3-cd)pyrene	**240**	**J**	970	27	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
m-Cresol	ND		1900	53	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Naphthalene	ND		970	16	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
o-Cresol	ND		970	29	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
p-Cresol	ND		1900	53	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Pentachlorophenol	ND		1900	330	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Phenanthrene	**430**	**J**	970	20	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Phenol	ND		970	100	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Pyrene	**760**	**J**	970	6.2	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*39 - 146*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
2-Fluorobiphenyl	*97*		*37 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
2-Fluorophenol	*75*		*18 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
Nitrobenzene-d5	*85*		*34 - 132*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
Phenol-d5	*86*		*11 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
p-Terphenyl-d14	*113*		*65 - 153*	*08/23/12 08:42*	*08/24/12 11:40*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		96	19	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
4,4'-DDE	ND		96	14	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
4,4'-DDT	ND		96	9.8	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Aldrin	ND		96	24	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
alpha-BHC	ND		96	17	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
alpha-Chlordane	ND		96	48	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
beta-BHC	ND		96	10	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
delta-BHC	ND		96	13	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Dieldrin	ND		96	23	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan I	ND		96	12	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan II	ND		96	17	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan sulfate	ND		96	18	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endrin	ND		96	13	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Heptachlor	ND		96	15	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Lindane	ND		96	69	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X*	*62 - 137*	*08/20/12 08:36*	*08/21/12 12:32*	*50*
Tetrachloro-m-xylene	*0*	*X*	*30 - 124*	*08/20/12 08:36*	*08/21/12 12:32*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1221	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1232	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1242	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1248	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1254	ND		230	110	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1260	ND		230	110	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1

Client Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Lab Sample ID: 480-24091-1

Matrix: Solid
Percent Solids: 86.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*163*		*36 - 182*	*08/20/12 16:13*	*08/22/12 10:12*	*1*
Tetrachloro-m-xylene	*146*		*24 - 172*	*08/20/12 16:13*	*08/22/12 10:12*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	08/20/12 08:20	08/21/12 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*39 - 120*	*08/20/12 08:20*	*08/21/12 17:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		2.5	0.50	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Barium	**72.5**		0.63	0.14	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Beryllium	**0.54**		0.25	0.035	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Cadmium	**0.42**		0.25	0.038	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Chromium	**14.7**		0.63	0.25	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Copper	**19.9**		1.3	0.26	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Lead	**37.9**	**B**	1.3	0.30	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Manganese	**420**		0.25	0.040	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Nickel	**17.2**		6.3	0.29	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Selenium	ND		5.0	0.71	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Silver	ND		0.63	0.25	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Zinc	**80.9**	**B**	2.5	0.19	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	**0.051**		0.022	0.0091	mg/Kg	☼	08/21/12 10:00	08/21/12 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.55	mg/Kg	☼	08/21/12 11:12	08/22/12 03:15	1
% Organic Matter	**92.5**		0.020	0.010	%			08/23/12 15:28	1
Loss on Ignition (LOI)	**7.5**		0.020	0.010	%			08/23/12 15:28	1
Phosphorus	**383**		20.0	8.0	mg/Kg	☼	08/22/12 11:00	08/22/12 11:08	50

General Chemistry - ASTM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**9.6**		4.0	2.0	mg/Kg		08/22/12 09:22	08/22/12 15:00	1
Nitrate Nitrite as N	**34.8**		1.0	0.0060	mg/Kg			08/22/12 17:46	1

Surrogate Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-24091-1	Topsoil #2	92	87	84
LCS 480-77262/5	Lab Control Sample	89	90	87
MB 480-77262/6	Method Blank	77	89	83

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(39-146)	(37-120)	(18-120)	(34-132)	(11-120)	(65-153)
480-24091-1	Topsoil #2	93	97	75	85	86	113
LCS 480-77840/2-A	Lab Control Sample	96	85	79	88	83	106
MB 480-77840/1-A	Method Blank	85	72	61	70	67	96

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(62-137)	(30-124)
480-24091-1	Topsoil #2	0 X	0 X
LCS 480-77256/2-A	Lab Control Sample	87	69
LCSD 480-77256/3-A	Lab Control Sample Dup	96	80
MB 480-77256/1-A	Method Blank	88	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(36-182)	(24-172)
480-24091-1	Topsoil #2	163	146
LCS 480-77388/2-A	Lab Control Sample	157	159
MB 480-77388/1-A	Method Blank	143	122

Surrogate Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCPA1 (39-120)**							
480-24091-1	Topsoil #2	83							
LCS 480-77250/2-A	Lab Control Sample	97							
LCSD 480-77250/3-A	Lab Control Sample Dup	84							
MB 480-77250/1-A	Method Blank	92							

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-77262/6
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			08/20/12 12:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg			08/20/12 12:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			08/20/12 12:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			08/20/12 12:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg			08/20/12 12:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			08/20/12 12:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			08/20/12 12:55	1
1,4-Dioxane	ND		200	24	ug/Kg			08/20/12 12:55	1
Acetone	ND		25	4.2	ug/Kg			08/20/12 12:55	1
Benzene	ND		5.0	0.25	ug/Kg			08/20/12 12:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			08/20/12 12:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			08/20/12 12:55	1
Chloroform	ND		5.0	0.31	ug/Kg			08/20/12 12:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			08/20/12 12:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			08/20/12 12:55	1
Methyl Ethyl Ketone	ND		25	1.8	ug/Kg			08/20/12 12:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			08/20/12 12:55	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			08/20/12 12:55	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg			08/20/12 12:55	1
n-Propylbenzene	ND		5.0	0.40	ug/Kg			08/20/12 12:55	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg			08/20/12 12:55	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg			08/20/12 12:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			08/20/12 12:55	1
Toluene	ND		5.0	0.38	ug/Kg			08/20/12 12:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			08/20/12 12:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg			08/20/12 12:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
Xylenes, Total	ND		10	0.84	ug/Kg			08/20/12 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*64 - 126*		*08/20/12 12:55*	*1*
Toluene-d8 (Surr)	*89*		*71 - 125*		*08/20/12 12:55*	*1*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*		*08/20/12 12:55*	*1*

Lab Sample ID: LCS 480-77262/5
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	79 - 126
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	65 - 153
1,2,4-Trimethylbenzene	50.0	42.6		ug/Kg		85	74 - 120
1,2-Dichlorobenzene	50.0	46.0		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	50.8		ug/Kg		102	77 - 122
Benzene	50.0	47.2		ug/Kg		94	79 - 127
Chlorobenzene	50.0	46.0		ug/Kg		92	76 - 124
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	81 - 117

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-77262/5
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	45.3		ug/Kg		91	80 - 120
Methyl tert-butyl ether	50.0	51.2		ug/Kg		102	63 - 125
Tetrachloroethene	50.0	44.2		ug/Kg		88	74 - 122
Toluene	50.0	44.5		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	78 - 126
Trichloroethene	50.0	46.9		ug/Kg		94	77 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
Toluene-d8 (Surr)	*90*		*71 - 125*
4-Bromofluorobenzene (Surr)	*87*		*72 - 126*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-77840/1-A
Matrix: Solid
Analysis Batch: 78042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Acenaphthylene	ND		170	1.4	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Anthracene	ND		170	4.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(a)pyrene	ND		170	4.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(b)fluoranthene	ND		170	3.2	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(g,h,i)perylene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(k)fluoranthene	ND		170	1.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Chrysene	ND		170	1.7	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Dibenzofuran	ND		170	1.7	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Fluoranthene	ND		170	2.4	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Fluorene	ND		170	3.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Indeno(1,2,3-cd)pyrene	ND		170	4.6	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
m-Cresol	ND		330	9.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Naphthalene	ND		170	2.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
o-Cresol	ND		170	5.1	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
p-Cresol	ND		330	9.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Pentachlorophenol	ND		330	57	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Phenanthrene	ND		170	3.5	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Phenol	ND		170	18	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Pyrene	ND		170	1.1	ug/Kg		08/23/12 08:42	08/24/12 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*39 - 146*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
2-Fluorobiphenyl	*72*		*37 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
2-Fluorophenol	*61*		*18 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
Nitrobenzene-d5	*70*		*34 - 132*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
Phenol-d5	*67*		*11 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-77840/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 78042 — **Prep Batch: 77840**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	96		65 - 153	08/23/12 08:42	08/24/12 10:52	1

Lab Sample ID: LCS 480-77840/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 78042 — **Prep Batch: 77840**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3280	2870		ug/Kg		87	53 - 120
Fluorene	3280	2880		ug/Kg		88	63 - 126
Pentachlorophenol	3280	3030		ug/Kg		92	33 - 136
Phenol	3280	2880		ug/Kg		88	36 - 120
Pyrene	3280	3050		ug/Kg		93	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	96		39 - 146
2-Fluorobiphenyl	85		37 - 120
2-Fluorophenol	79		18 - 120
Nitrobenzene-d5	88		34 - 132
Phenol-d5	83		11 - 120
p-Terphenyl-d14	106		65 - 153

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-77256/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77463 — **Prep Batch: 77256**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
4,4'-DDE	ND		1.6	0.24	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
4,4'-DDT	ND		1.6	0.17	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Aldrin	ND		1.6	0.40	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
alpha-BHC	ND		1.6	0.29	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
beta-BHC	ND		1.6	0.18	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
delta-BHC	ND		1.6	0.22	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Dieldrin	ND		1.6	0.39	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan I	ND		1.6	0.21	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan II	ND		1.6	0.29	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endrin	ND		1.6	0.23	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Heptachlor	ND		1.6	0.26	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Lindane	ND		1.6	1.2	ug/Kg		08/20/12 08:36	08/21/12 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		62 - 137	08/20/12 08:36	08/21/12 10:29	1
Tetrachloro-m-xylene	72		30 - 124	08/20/12 08:36	08/21/12 10:29	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-77256/2-A
Matrix: Solid
Analysis Batch: 77463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	12.5		ug/Kg		76	45 - 129
4,4'-DDE	16.4	12.3		ug/Kg		75	49 - 120
4,4'-DDT	16.4	12.4		ug/Kg		75	47 - 145
Aldrin	16.4	11.5		ug/Kg		70	35 - 120
alpha-BHC	16.4	10.9		ug/Kg		67	49 - 120
alpha-Chlordane	16.4	12.3		ug/Kg		75	44 - 127
beta-BHC	16.4	11.8		ug/Kg		72	58 - 123
delta-BHC	16.4	11.7		ug/Kg		71	45 - 123
Dieldrin	16.4	12.5		ug/Kg		76	53 - 128
Endosulfan I	16.4	12.0		ug/Kg		73	29 - 125
Endosulfan II	16.4	12.9		ug/Kg		79	56 - 127
Endosulfan sulfate	16.4	12.8		ug/Kg		78	53 - 135
Endrin	16.4	13.1		ug/Kg		80	58 - 129
Heptachlor	16.4	12.2		ug/Kg		74	49 - 122
Lindane	16.4	11.5		ug/Kg		70	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*62 - 137*
Tetrachloro-m-xylene	*69*		*30 - 124*

Lab Sample ID: LCSD 480-77256/3-A
Matrix: Solid
Analysis Batch: 77463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77256

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	16.3	11.5		ug/Kg		70	45 - 129	8	18
4,4'-DDE	16.3	11.4		ug/Kg		70	49 - 120	7	16
4,4'-DDT	16.3	11.4		ug/Kg		70	47 - 145	9	17
Aldrin	16.3	10.8		ug/Kg		66	35 - 120	6	24
alpha-BHC	16.3	10.3		ug/Kg		63	49 - 120	6	19
alpha-Chlordane	16.3	11.5		ug/Kg		71	44 - 127	7	13
beta-BHC	16.3	10.9		ug/Kg		67	58 - 123	8	17
delta-BHC	16.3	10.9		ug/Kg		67	45 - 123	7	14
Dieldrin	16.3	11.5		ug/Kg		71	53 - 128	8	13
Endosulfan I	16.3	11.1		ug/Kg		68	29 - 125	8	16
Endosulfan II	16.3	11.9		ug/Kg		73	56 - 127	8	17
Endosulfan sulfate	16.3	11.8		ug/Kg		73	53 - 135	8	14
Endrin	16.3	12.1		ug/Kg		74	58 - 129	8	19
Heptachlor	16.3	11.2		ug/Kg		69	49 - 122	8	16
Lindane	16.3	10.9		ug/Kg		67	50 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*62 - 137*
Tetrachloro-m-xylene	*80*		*30 - 124*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-77388/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77605 — **Prep Batch: 77388**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1221	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1232	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1242	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1248	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1254	ND		230	110	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1260	ND		230	110	ug/Kg		08/20/12 16:13	08/22/12 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*143*		*36 - 182*	*08/20/12 16:13*	*08/22/12 08:13*	*1*
Tetrachloro-m-xylene	*122*		*24 - 172*	*08/20/12 16:13*	*08/22/12 08:13*	*1*

Lab Sample ID: LCS 480-77388/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77605 — **Prep Batch: 77388**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	2350	3010		ug/Kg		128	51 - 185
Aroclor 1260	2350	3330		ug/Kg		142	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*157*		*36 - 182*
Tetrachloro-m-xylene	*159*		*24 - 172*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-77250/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		08/20/12 08:20	08/21/12 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*92*		*39 - 120*	*08/20/12 08:20*	*08/21/12 15:47*	*1*

Lab Sample ID: LCS 480-77250/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)	65.8	55.9		ug/Kg		85	54 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*97*		*39 - 120*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 480-77250/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	66.6	48.0		ug/Kg		72	54 - 121	15	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*39 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-77341/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.8	0.37	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Barium	ND		0.46	0.10	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Beryllium	ND		0.18	0.026	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Cadmium	ND		0.18	0.028	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Chromium	ND		0.46	0.18	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Copper	ND		0.92	0.19	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Lead	0.244	J	0.92	0.22	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Manganese	ND		0.18	0.029	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Nickel	ND		4.6	0.21	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Selenium	ND		3.7	0.53	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Silver	ND		0.46	0.18	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Zinc	0.273	J	1.8	0.14	mg/Kg		08/20/12 14:10	08/20/12 22:08	1

Lab Sample ID: LCSSRM 480-77341/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	94.4	88.28		mg/Kg		93.5	69.2 - 131.2
Barium	167	151.8		mg/Kg		91.0	72.5 - 126.9
Beryllium	57.6	56.66		mg/Kg		98.5	73.3 - 126.7
Cadmium	60.5	56.24		mg/Kg		93.0	73.2 - 126.8
Chromium	70.3	64.95		mg/Kg		92.3	68.5 - 131.5
Copper	79.5	76.85		mg/Kg		96.6	73.6 - 125.6
Lead	91.7	87.27		mg/Kg		95.1	70.3 - 129.6
Manganese	283	265.9		mg/Kg		94.0	73.9 - 125.4
Nickel	57.6	54.02		mg/Kg		93.9	70.0 - 130.2
Selenium	86.3	81.79		mg/Kg		94.7	64.0 - 136.6
Silver	34.4	33.92		mg/Kg		98.7	65.7 - 134.6

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-77341/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	140	131.4		mg/Kg		93.9	67.4 - 132.9

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		47.4	47.31		mg/Kg	☼	86	75 - 125
Barium	72.5		47.4	116.8		mg/Kg	☼	94	75 - 125
Beryllium	0.54		47.4	42.61		mg/Kg	☼	89	75 - 125
Cadmium	0.42		47.4	41.50		mg/Kg	☼	87	75 - 125
Chromium	14.7		47.4	60.26		mg/Kg	☼	96	75 - 125
Copper	19.9		47.4	65.21		mg/Kg	☼	96	75 - 125
Lead	37.9	B	47.4	84.29		mg/Kg	☼	98	75 - 125
Manganese	420		47.4	802.0	4	mg/Kg	☼	807	75 - 125
Nickel	17.2		47.4	62.36		mg/Kg	☼	95	75 - 125
Selenium	ND		47.4	40.01		mg/Kg	☼	84	75 - 125
Silver	ND		11.8	11.24		mg/Kg	☼	95	75 - 125
Zinc	80.9	B	47.4	135.2		mg/Kg	☼	115	75 - 125

Lab Sample ID: 480-24091-1 MSD — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		43.9	45.18		mg/Kg	☼	88	75 - 125	5	20
Barium	72.5		43.9	110.8		mg/Kg	☼	87	75 - 125	5	20
Beryllium	0.54		43.9	40.41		mg/Kg	☼	91	75 - 125	5	20
Cadmium	0.42		43.9	40.16		mg/Kg	☼	90	75 - 125	3	20
Chromium	14.7		43.9	56.33		mg/Kg	☼	95	75 - 125	7	20
Copper	19.9		43.9	64.96		mg/Kg	☼	103	75 - 125	0	20
Lead	37.9	B	43.9	84.80		mg/Kg	☼	107	75 - 125	1	20
Manganese	420		43.9	469.6	4 F	mg/Kg	☼	113	75 - 125	52	20
Nickel	17.2		43.9	61.08		mg/Kg	☼	100	75 - 125	2	20
Selenium	ND		43.9	39.50		mg/Kg	☼	90	75 - 125	1	20
Silver	ND		11.0	10.53		mg/Kg	☼	96	75 - 125	7	20
Zinc	80.9	B	43.9	129.3		mg/Kg	☼	110	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-77468/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77527 — **Prep Batch: 77468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.020	0.0082	mg/Kg		08/21/12 10:00	08/21/12 11:52	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-77468/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77527 — **Prep Batch: 77468**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Mercury	3.77	3.06		mg/Kg		81.1	71.6 - 128.4

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-77698/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77745 — **Prep Batch: 77698**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg		08/22/12 09:22	08/22/12 14:40	1

Lab Sample ID: LCS 480-77698/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77745 — **Prep Batch: 77698**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.904		mg/Kg		90	90 - 110

Lab Sample ID: MB 480-77575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		4.0	2.0	mg/Kg			08/22/12 15:04	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 480-77768/21 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.48		mg/Kg		99	90 - 110

Lab Sample ID: MB 480-77575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		1.0	0.0060	mg/Kg			08/22/12 17:44	1

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	34.8		20.0	54.75		mg/Kg		100	77 - 123

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	34.8			34.57		mg/Kg				0.6	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-77499/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.48	mg/Kg		08/21/12 11:12	08/22/12 03:12	1

Lab Sample ID: LCS 480-77499/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			25.6	25.56		mg/Kg		100	29 - 122		

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND		11.2	13.77	F	mg/Kg	☼	123	85 - 115		

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND			ND		mg/Kg	☼			NC	15

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 480-77942/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Organic Matter	ND		0.020	0.010	%			08/23/12 15:24	1
Loss on Ignition (LOI)	ND		0.020	0.010	%			08/23/12 15:24	1

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77942

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
% Organic Matter	92.5			92.65		%				0.1	20
Loss on Ignition (LOI)	7.5			7.35		%				2	20

QC Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-77687/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77689 — **Prep Batch: 77687**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.011	0.0042	mg/Kg		08/22/12 11:00	08/22/12 11:08	1

Lab Sample ID: LCS 480-77687/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77689 — **Prep Batch: 77687**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus			597	390.7		mg/Kg		65	55 - 144		

QC Association Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

GC/MS VOA

Analysis Batch: 77262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8260B	77288
LCS 480-77262/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-77262/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 77288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 77840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77840/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-77840/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 78042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8270C	77840
LCS 480-77840/2-A	Lab Control Sample	Total/NA	Solid	8270C	77840
MB 480-77840/1-A	Method Blank	Total/NA	Solid	8270C	77840

GC Semi VOA

Prep Batch: 77250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8151A	
LCS 480-77250/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-77250/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	
MB 480-77250/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 77256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77256/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 480-77256/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 480-77256/1-A	Method Blank	Total/NA	Solid	3550B	

Prep Batch: 77388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77388/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-77388/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 77463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8081A	77256
LCS 480-77256/2-A	Lab Control Sample	Total/NA	Solid	8081A	77256
LCSD 480-77256/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	77256
MB 480-77256/1-A	Method Blank	Total/NA	Solid	8081A	77256

GC Semi VOA (Continued)

Analysis Batch: 77481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8151A	77250
LCS 480-77250/2-A	Lab Control Sample	Total/NA	Solid	8151A	77250
LCSD 480-77250/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	77250
MB 480-77250/1-A	Method Blank	Total/NA	Solid	8151A	77250

Analysis Batch: 77605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8082	77388
LCS 480-77388/2-A	Lab Control Sample	Total/NA	Solid	8082	77388
MB 480-77388/1-A	Method Blank	Total/NA	Solid	8082	77388

Metals

Prep Batch: 77341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3050B	
480-24091-1 MS	Topsoil #2	Total/NA	Solid	3050B	
480-24091-1 MSD	Topsoil #2	Total/NA	Solid	3050B	
LCSSRM 480-77341/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-77341/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 77454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	6010B	77341
480-24091-1 MS	Topsoil #2	Total/NA	Solid	6010B	77341
480-24091-1 MSD	Topsoil #2	Total/NA	Solid	6010B	77341
LCSSRM 480-77341/2-A	Lab Control Sample	Total/NA	Solid	6010B	77341
MB 480-77341/1-A	Method Blank	Total/NA	Solid	6010B	77341

Prep Batch: 77468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	7471A	
LCSSRM 480-77468/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-77468/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 77527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	7471A	77468
LCSSRM 480-77468/2-A	Lab Control Sample	Total/NA	Solid	7471A	77468
MB 480-77468/1-A	Method Blank	Total/NA	Solid	7471A	77468

General Chemistry

Prep Batch: 77499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	9012A	
480-24091-1 DU	Topsoil #2	Total/NA	Solid	9012A	
480-24091-1 MS	Topsoil #2	Total/NA	Solid	9012A	
LCS 480-77499/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 480-77499/1-A	Method Blank	Total/NA	Solid	9012A	

General Chemistry (Continued)

Analysis Batch: 77519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	Moisture	

Leach Batch: 77575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	D3987-85	
480-24091-1 DU	Topsoil #2	ASTM	Solid	D3987-85	
480-24091-1 MS	Topsoil #2	ASTM	Solid	D3987-85	
MB 480-77575/1-A	Method Blank	ASTM	Solid	D3987-85	

Analysis Batch: 77598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	9012A	77499
480-24091-1 DU	Topsoil #2	Total/NA	Solid	9012A	77499
480-24091-1 MS	Topsoil #2	Total/NA	Solid	9012A	77499
LCS 480-77499/2-A	Lab Control Sample	Total/NA	Solid	9012A	77499
MB 480-77499/1-A	Method Blank	Total/NA	Solid	9012A	77499

Prep Batch: 77687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 4500 P B	
LCS 480-77687/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	
MB 480-77687/1-A	Method Blank	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 77689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 4500 P E	77687
LCS 480-77687/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	77687
MB 480-77687/1-A	Method Blank	Total/NA	Solid	SM 4500 P E	77687

Prep Batch: 77698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	Distill/Ammonia	77575
LCS 480-77698/1-A	Lab Control Sample	Total/NA	Solid	Distill/Ammonia	
MB 480-77698/2-A	Method Blank	Total/NA	Solid	Distill/Ammonia	

Analysis Batch: 77745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	350.1	77698
LCS 480-77698/1-A	Lab Control Sample	Total/NA	Solid	350.1	77698
MB 480-77575/1-A	Method Blank	ASTM	Solid	350.1	77575
MB 480-77698/2-A	Method Blank	Total/NA	Solid	350.1	77698

Analysis Batch: 77768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	353.2	77575
480-24091-1 DU	Topsoil #2	ASTM	Solid	353.2	77575
480-24091-1 MS	Topsoil #2	ASTM	Solid	353.2	77575
LCS 480-77768/21	Lab Control Sample	Total/NA	Solid	353.2	
MB 480-77575/1-A	Method Blank	ASTM	Solid	353.2	77575

QC Association Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

General Chemistry (Continued)

Analysis Batch: 77942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 2540G	
480-24091-1 DU	Topsoil #2	Total/NA	Solid	SM 2540G	
MB 480-77942/1	Method Blank	Total/NA	Solid	SM 2540G	

Lab Chronicle

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Lab Sample ID: 480-24091-1

Date Collected: 08/17/12 14:45

Matrix: Solid

Date Received: 08/17/12 14:45

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			77288	08/20/12 10:22	JMB	TAL BUF
Total/NA	Analysis	8260B		1	77262	08/20/12 20:40	CDC	TAL BUF
Total/NA	Prep	3550B			77840	08/23/12 08:42	CM	TAL BUF
Total/NA	Analysis	8270C		5	78042	08/24/12 11:40	AM	TAL BUF
Total/NA	Prep	3550B			77256	08/20/12 08:36	CM	TAL BUF
Total/NA	Analysis	8081A		50	77463	08/21/12 12:32	LW	TAL BUF
Total/NA	Prep	8151A			77250	08/20/12 08:20	CM	TAL BUF
Total/NA	Analysis	8151A		1	77481	08/21/12 17:15	MN	TAL BUF
Total/NA	Prep	3550B			77388	08/20/12 16:13	DE	TAL BUF
Total/NA	Analysis	8082		1	77605	08/22/12 10:12	JM	TAL BUF
Total/NA	Prep	3050B			77341	08/20/12 14:10	SS	TAL BUF
Total/NA	Analysis	6010B		1	77454	08/20/12 22:15	MM	TAL BUF
Total/NA	Prep	7471A			77468	08/21/12 10:00	JRK	TAL BUF
Total/NA	Analysis	7471A		1	77527	08/21/12 12:43	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	77519	08/21/12 12:06	ZLR	TAL BUF
Total/NA	Prep	9012A			77499	08/21/12 11:12	EGN	TAL BUF
Total/NA	Analysis	9012A		1	77598	08/22/12 03:15	PJQ	TAL BUF
Total/NA	Prep	SM 4500 P B			77687	08/22/12 11:00	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		50	77689	08/22/12 11:08	KS	TAL BUF
ASTM	Leach	D3987-85			77575	08/21/12 19:47	KS	TAL BUF
ASTM	Prep	Distill/Ammonia			77698	08/22/12 09:22	KS	TAL BUF
ASTM	Analysis	350.1		1	77745	08/22/12 15:00	KS	TAL BUF
ASTM	Analysis	353.2		1	77768	08/22/12 17:46	KS	TAL BUF
Total/NA	Analysis	SM 2540G		1	77942	08/23/12 15:28	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-12
Connecticut	State Program	1	PH-0568	09-30-12
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	03-31-12
Illinois	NELAC	5	200003	09-30-12
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-12
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-12
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-12
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-12
Wisconsin	State Program	5	998310390	08-31-12

Method Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081A	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7471A	Mercury (CVAA)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-24091-1	Topsoil #2	Solid	08/17/12 14:45	08/17/12 14:45

[redacted]

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

#6381

Client: Environmental Restoration INC	Project Manager: Mike Domenick	Date: 8-17-12	Chain of Custody Number: 208800
Address: 191 Courtdale AVE	Telephone Number (Area Code)/Fax Number: 570 331-8191	Lab Number	Page 1 of 1
City: Courtdale; State: PA; Zip Code: 18704	Site Contact: Mike Domenick	Lab Contact	
Project Name and Location (State): DePew Row	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

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 (Attach list if more space is needed): See Attach	Special Instructions/ Conditions of Receipt
TopSoil #2	8-17-12	2:45													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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Michael Domenick	8-17-12	2:45	1. Received By: Tony Bozzel — TAL-BUFFALO	8-17-12	14:45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 17.0°C NO ICE #2

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

Login Sample Receipt Checklist

Client: Environmental Restoration, Inc.

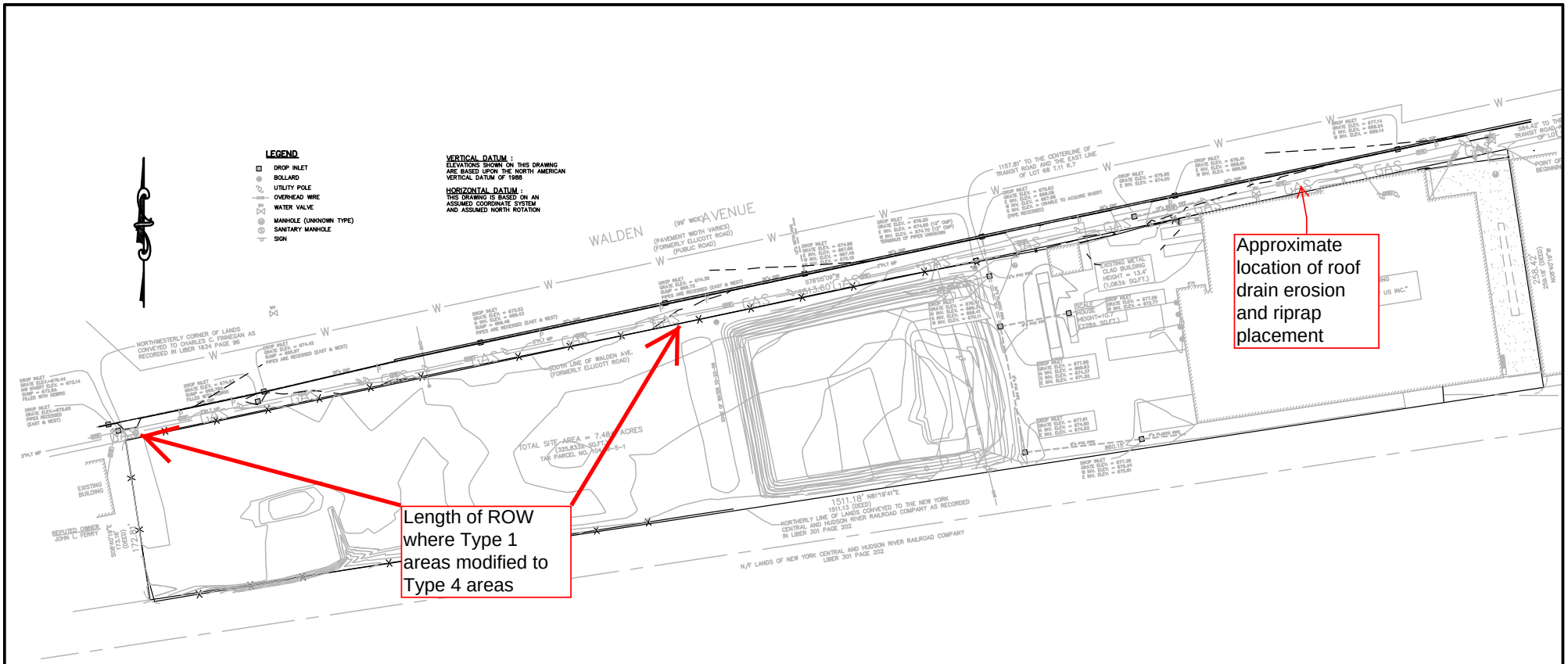
Job Number: 480-24091-1

Login Number: 24091
List Number: 1
Creator: Kinecki, Kenneth

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	17.0 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Env Restoration Inc
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

SITE PLAN MODIFICATIONS



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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WALDEN AVENUE RIGHT-OF-WAY EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

BASELINE AIR MONITORING RESULTS

NL/Depew Plant Site
3241 Walden Avenue ROW
Baseline Air Monitoring
08-22-12

Air Monitor	**Day 1 (ug/m^3) (Daily 8-hour Avg.)**	**Day 2 (ug/m^3) (Daily 8-hour Avg.)**	**Day 3 (ug/m^3) (Daily 8-hour Avg.)**
AM-1	17.05	4.58	4.32
AM-2	17.77	4.86	4.86

Avg 3-day Value (ug/m^3)	8.91

Action Level (ug/m^3)	**71.41**

Notes:
1. Air monitors were run to collect a reading at 4-min intervals
2. Air monitor (AM-1) shows beginning start time for the first day as 00:16 (actual time was 11:16). Correct time was adjusted for the following days
3. Action Level calculated from all 6 readings and added to 62.5 (Work Plan)
4. Thermo Scientific pDR Model 4000 Aerosol Monitor are being utilized on the Site

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 0
"Start Time ", 00:12:03
"Start Date ", 16-Aug-2012
"Log Period ", 00:04:00
"Number   ", 122
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 20.627620
"Max MASS @ ", 120 ,08:12:03 ,16-Aug-2012
"Avg MASS   ", 17.052050
"Max Diam   ", 2.051577
"Max Diam @ ", 120 ,08:12:03 ,16-Aug-2012
"Avg Diam   ", 1.186244
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	18.1,	33.8,	49,	1.1585	,00:16:03 ,16-Aug-2012
2,	20.2,	33.9,	44,	1.4056	,00:20:03 ,16-Aug-2012
3,	16.5,	33.9,	43,	0.9866	,00:24:03 ,16-Aug-2012
4,	16.5,	34.0,	41,	0.9416	,00:28:03 ,16-Aug-2012
5,	17.2,	34.0,	41,	1.0785	,00:32:03 ,16-Aug-2012
6,	16.5,	34.1,	40,	1.0083	,00:36:03 ,16-Aug-2012
7,	16.8,	34.1,	40,	1.0025	,00:40:03 ,16-Aug-2012
8,	16.5,	34.2,	40,	1.0479	,00:44:03 ,16-Aug-2012
9,	18.4,	34.2,	39,	1.1015	,00:48:03 ,16-Aug-2012
10,	19.3,	34.3,	39,	1.2374	,00:52:03 ,16-Aug-2012
11,	20.5,	34.4,	39,	1.3717	,00:56:03 ,16-Aug-2012
12,	17.7,	34.5,	39,	1.2003	,01:00:03 ,16-Aug-2012
13,	16.7,	34.6,	37,	1.5220	,01:04:03 ,16-Aug-2012
14,	20.0,	34.7,	37,	1.3279	,01:08:03 ,16-Aug-2012
15,	16.1,	34.9,	37,	1.1685	,01:12:03 ,16-Aug-2012
16,	18.1,	35.0,	36,	1.1607	,01:16:03 ,16-Aug-2012
17,	15.5,	35.1,	35,	1.1450	,01:20:03 ,16-Aug-2012
18,	14.3,	35.2,	34,	1.0518	,01:24:03 ,16-Aug-2012
19,	15.3,	35.3,	34,	1.1168	,01:28:03 ,16-Aug-2012
20,	14.6,	35.5,	33,	1.0633	,01:32:03 ,16-Aug-2012
21,	12.8,	35.6,	33,	0.9906	,01:36:03 ,16-Aug-2012
22,	13.2,	35.7,	33,	0.9285	,01:40:03 ,16-Aug-2012
23,	13.4,	35.8,	32,	0.9484	,01:44:03 ,16-Aug-2012
24,	15.7,	35.9,	32,	2.0159	,01:48:03 ,16-Aug-2012
25,	13.3,	36.0,	31,	1.7554	,01:52:03 ,16-Aug-2012
26,	12.8,	36.1,	30,	1.0641	,01:56:03 ,16-Aug-2012
27,	11.3,	36.2,	30,	1.0291	,02:00:03 ,16-Aug-2012
28,	14.1,	36.2,	30,	1.0638	,02:04:03 ,16-Aug-2012
29,	14.9,	36.3,	30,	1.1402	,02:08:03 ,16-Aug-2012
30,	15.3,	36.4,	30,	1.0234	,02:12:03 ,16-Aug-2012
31,	16.8,	36.5,	30,	1.2703	,02:16:03 ,16-Aug-2012
32,	18.7,	36.6,	30,	1.4934	,02:20:03 ,16-Aug-2012
33,	15.0,	36.6,	30,	0.9852	,02:24:03 ,16-Aug-2012
34,	16.4,	36.7,	29,	1.5261	,02:28:03 ,16-Aug-2012
35,	16.1,	36.7,	29,	1.4347	,02:32:03 ,16-Aug-2012
36,	14.1,	36.8,	28,	1.2042	,02:36:03 ,16-Aug-2012
37,	12.8,	36.8,	28,	1.1368	,02:40:03 ,16-Aug-2012
38,	14.0,	36.8,	28,	1.0961	,02:44:03 ,16-Aug-2012
39,	13.8,	36.9,	28,	1.0480	,02:48:03 ,16-Aug-2012
40,	14.7,	36.9,	28,	0.9327	,02:52:03 ,16-Aug-2012
41,	15.3,	36.9,	28,	1.1490	,02:56:03 ,16-Aug-2012
42,	15.0,	37.0,	28,	1.1562	,03:00:03 ,16-Aug-2012

43,	14.9,	37.1,	28,	1.0446	,03:04:03	,16-Aug-2012
44,	14.0,	37.1,	28,	0.9399	,03:08:03	,16-Aug-2012
45,	15.1,	37.2,	28,	1.0828	,03:12:03	,16-Aug-2012
46,	15.0,	37.3,	27,	1.0244	,03:16:03	,16-Aug-2012
47,	14.9,	37.4,	27,	1.1975	,03:20:03	,16-Aug-2012
48,	15.6,	37.5,	27,	1.3155	,03:24:03	,16-Aug-2012
49,	14.8,	37.5,	27,	1.1495	,03:28:03	,16-Aug-2012
50,	14.4,	37.6,	27,	1.0607	,03:32:03	,16-Aug-2012
51,	14.5,	37.6,	27,	1.0407	,03:36:03	,16-Aug-2012
52,	15.8,	37.7,	27,	1.1221	,03:40:03	,16-Aug-2012
53,	17.0,	37.8,	27,	1.3927	,03:44:03	,16-Aug-2012
54,	17.3,	37.9,	27,	1.5964	,03:48:03	,16-Aug-2012
55,	15.0,	38.0,	27,	1.2620	,03:52:03	,16-Aug-2012
56,	14.8,	38.1,	27,	1.1036	,03:56:03	,16-Aug-2012
57,	14.5,	38.1,	26,	1.0574	,04:00:03	,16-Aug-2012
58,	15.2,	38.2,	26,	1.1042	,04:04:03	,16-Aug-2012
59,	15.5,	38.2,	26,	1.2057	,04:08:03	,16-Aug-2012
60,	16.2,	38.2,	26,	1.1617	,04:12:03	,16-Aug-2012
61,	15.7,	38.1,	25,	1.1297	,04:16:03	,16-Aug-2012
62,	15.5,	38.1,	26,	1.0806	,04:20:03	,16-Aug-2012
63,	16.7,	38.1,	26,	1.3892	,04:24:03	,16-Aug-2012
64,	16.0,	38.1,	25,	1.2304	,04:28:03	,16-Aug-2012
65,	16.2,	38.1,	25,	1.0625	,04:32:03	,16-Aug-2012
66,	17.8,	38.0,	25,	1.2776	,04:36:03	,16-Aug-2012
67,	17.9,	37.9,	25,	1.3229	,04:40:03	,16-Aug-2012
68,	19.1,	37.8,	25,	1.3213	,04:44:03	,16-Aug-2012
69,	19.5,	37.6,	26,	1.3624	,04:48:03	,16-Aug-2012
70,	17.9,	37.4,	26,	1.2136	,04:52:03	,16-Aug-2012
71,	19.5,	37.2,	26,	1.2349	,04:56:03	,16-Aug-2012
72,	18.0,	37.0,	27,	1.0885	,05:00:03	,16-Aug-2012
73,	18.1,	36.8,	27,	1.2282	,05:04:03	,16-Aug-2012
74,	18.6,	36.8,	28,	1.2811	,05:08:03	,16-Aug-2012
75,	19.0,	36.8,	28,	1.2055	,05:12:03	,16-Aug-2012
76,	18.2,	36.9,	28,	1.2229	,05:16:03	,16-Aug-2012
77,	19.1,	36.9,	28,	1.2746	,05:20:03	,16-Aug-2012
78,	17.7,	36.8,	27,	1.2459	,05:24:03	,16-Aug-2012
79,	18.3,	36.6,	27,	1.2409	,05:28:03	,16-Aug-2012
80,	17.9,	36.4,	28,	1.0361	,05:32:03	,16-Aug-2012
81,	18.6,	36.1,	28,	1.2325	,05:36:03	,16-Aug-2012
82,	18.2,	35.8,	29,	1.1788	,05:40:03	,16-Aug-2012
83,	17.8,	35.5,	29,	1.1892	,05:44:03	,16-Aug-2012
84,	18.6,	35.3,	29,	1.3051	,05:48:03	,16-Aug-2012
85,	20.5,	35.0,	29,	1.1678	,05:52:03	,16-Aug-2012
86,	18.7,	34.8,	30,	1.1685	,05:56:03	,16-Aug-2012
87,	18.7,	34.6,	30,	1.1670	,06:00:03	,16-Aug-2012
88,	18.2,	34.5,	30,	1.2904	,06:04:03	,16-Aug-2012
89,	18.6,	34.3,	31,	1.1151	,06:08:03	,16-Aug-2012
90,	18.0,	34.2,	31,	1.1607	,06:12:03	,16-Aug-2012
91,	18.5,	34.1,	32,	1.1948	,06:16:03	,16-Aug-2012
92,	18.4,	34.1,	32,	1.2289	,06:20:03	,16-Aug-2012
93,	18.2,	34.0,	32,	1.0587	,06:24:03	,16-Aug-2012
94,	18.6,	34.0,	33,	1.1781	,06:28:03	,16-Aug-2012
95,	18.3,	34.0,	33,	1.0848	,06:32:03	,16-Aug-2012
96,	19.3,	33.9,	34,	1.1429	,06:36:03	,16-Aug-2012
97,	19.4,	33.9,	34,	1.2023	,06:40:03	,16-Aug-2012
98,	20.5,	33.8,	34,	1.2051	,06:44:03	,16-Aug-2012
99,	19.0,	33.7,	34,	1.1868	,06:48:03	,16-Aug-2012
100,	18.8,	33.6,	35,	1.0072	,06:52:03	,16-Aug-2012
101,	20.2,	33.5,	35,	1.1315	,06:56:03	,16-Aug-2012
102,	18.9,	33.4,	36,	1.0881	,07:00:03	,16-Aug-2012
103,	18.8,	33.2,	36,	1.0903	,07:04:03	,16-Aug-2012
104,	18.9,	33.1,	37,	1.0631	,07:08:03	,16-Aug-2012
105,	18.6,	33.0,	37,	1.0554	,07:12:03	,16-Aug-2012
106,	18.6,	32.9,	38,	0.9315	,07:16:03	,16-Aug-2012
107,	19.4,	32.8,	38,	1.0466	,07:20:03	,16-Aug-2012
108,	18.7,	32.7,	39,	1.0574	,07:24:03	,16-Aug-2012
109,	18.2,	32.6,	39,	1.0716	,07:28:03	,16-Aug-2012

110,	18.3,	32.5,	39,	1.1186	,07:32:03	,16-Aug-2012
111,	17.8,	32.4,	39,	1.1232	,07:36:03	,16-Aug-2012
112,	18.7,	32.3,	39,	1.1308	,07:40:03	,16-Aug-2012
113,	18.1,	32.2,	39,	1.1054	,07:44:03	,16-Aug-2012
114,	18.7,	32.2,	39,	1.3537	,07:48:03	,16-Aug-2012
115,	18.1,	32.2,	39,	1.2718	,07:52:03	,16-Aug-2012
116,	17.8,	32.2,	40,	1.1100	,07:56:03	,16-Aug-2012
117,	19.2,	32.2,	40,	1.4245	,08:00:03	,16-Aug-2012
118,	18.4,	32.2,	40,	1.4297	,08:04:03	,16-Aug-2012
119,	18.5,	32.2,	40,	1.2261	,08:08:03	,16-Aug-2012
120,	20.6,	32.3,	39,	2.0516	,08:12:03	,16-Aug-2012
121,	17.4,	32.3,	39,	1.1245	,08:16:03	,16-Aug-2012
122,	18.3,	32.3,	39,	1.4528	,08:20:03	,16-Aug-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 0
"Start Time ", 11:19:49
"Start Date ", 16-Aug-2012
"Log Period ", 00:04:00
"Number   ", 121
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 21.332060
"Max MASS @ ", 9 ,11:55:49 ,16-Aug-2012
"Avg MASS   ", 17.772870
"Max Diam   ", 2.368173
"Max Diam @ ", 22 ,12:47:49 ,16-Aug-2012
"Avg Diam   ", 1.332284
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	20.3,	30.5,	56,	1.1180	,11:23:49 ,16-Aug-2012
2,	17.3,	30.5,	50,	1.0660	,11:27:49 ,16-Aug-2012
3,	17.7,	30.5,	48,	1.1617	,11:31:49 ,16-Aug-2012
4,	17.3,	30.5,	47,	1.1787	,11:35:49 ,16-Aug-2012
5,	18.7,	30.6,	46,	1.1526	,11:39:49 ,16-Aug-2012
6,	17.8,	30.6,	45,	1.2928	,11:43:49 ,16-Aug-2012
7,	19.2,	30.7,	44,	1.0939	,11:47:49 ,16-Aug-2012
8,	20.6,	30.8,	44,	1.3161	,11:51:49 ,16-Aug-2012
9,	21.3,	30.9,	44,	1.4260	,11:55:49 ,16-Aug-2012
10,	18.8,	31.1,	43,	1.2694	,11:59:49 ,16-Aug-2012
11,	17.9,	31.2,	42,	1.7182	,12:03:49 ,16-Aug-2012
12,	21.2,	31.3,	41,	1.5900	,12:07:49 ,16-Aug-2012
13,	16.8,	31.5,	41,	1.2605	,12:11:49 ,16-Aug-2012
14,	17.2,	31.6,	40,	1.3219	,12:15:49 ,16-Aug-2012
15,	15.8,	31.7,	39,	1.1659	,12:19:49 ,16-Aug-2012
16,	15.1,	31.8,	38,	1.3198	,12:23:49 ,16-Aug-2012
17,	15.8,	32.0,	37,	1.2541	,12:27:49 ,16-Aug-2012
18,	15.0,	32.1,	37,	1.1903	,12:31:49 ,16-Aug-2012
19,	14.0,	32.2,	36,	1.2584	,12:35:49 ,16-Aug-2012
20,	14.2,	32.3,	36,	1.0975	,12:39:49 ,16-Aug-2012
21,	14.3,	32.4,	35,	1.3369	,12:43:49 ,16-Aug-2012
22,	16.7,	32.5,	35,	2.3682	,12:47:49 ,16-Aug-2012
23,	13.7,	32.7,	34,	1.3422	,12:51:49 ,16-Aug-2012
24,	14.1,	32.7,	33,	1.4759	,12:55:49 ,16-Aug-2012
25,	12.5,	32.8,	33,	1.4993	,12:59:49 ,16-Aug-2012
26,	14.1,	32.9,	32,	1.1920	,13:03:49 ,16-Aug-2012
27,	15.0,	33.0,	33,	1.0556	,13:07:49 ,16-Aug-2012
28,	15.6,	33.1,	33,	1.0760	,13:11:49 ,16-Aug-2012
29,	17.6,	33.1,	32,	1.4003	,13:15:49 ,16-Aug-2012
30,	18.7,	33.2,	32,	1.5254	,13:19:49 ,16-Aug-2012
31,	15.3,	33.2,	32,	1.1439	,13:23:49 ,16-Aug-2012
32,	17.5,	33.3,	32,	1.6307	,13:27:49 ,16-Aug-2012
33,	16.9,	33.4,	31,	2.2931	,13:31:49 ,16-Aug-2012
34,	14.8,	33.4,	31,	1.5735	,13:35:49 ,16-Aug-2012
35,	13.9,	33.5,	30,	1.3672	,13:39:49 ,16-Aug-2012
36,	14.8,	33.5,	30,	1.4271	,13:43:49 ,16-Aug-2012
37,	15.3,	33.6,	31,	1.2829	,13:47:49 ,16-Aug-2012
38,	15.9,	33.6,	31,	1.2472	,13:51:49 ,16-Aug-2012
39,	16.1,	33.6,	31,	1.1221	,13:55:49 ,16-Aug-2012
40,	16.0,	33.7,	31,	1.2944	,13:59:49 ,16-Aug-2012
41,	15.3,	33.8,	30,	1.0903	,14:03:49 ,16-Aug-2012
42,	15.0,	33.9,	30,	1.0515	,14:07:49 ,16-Aug-2012

43,	16.5,	34.0,	30,	1.2552	,14:11:49	,16-Aug-2012
44,	15.8,	34.0,	29,	1.2508	,14:15:49	,16-Aug-2012
45,	15.3,	34.1,	29,	1.1603	,14:19:49	,16-Aug-2012
46,	16.0,	34.1,	29,	1.2108	,14:23:49	,16-Aug-2012
47,	15.3,	34.2,	29,	1.2269	,14:27:49	,16-Aug-2012
48,	15.5,	34.2,	29,	1.2738	,14:31:49	,16-Aug-2012
49,	15.3,	34.3,	29,	1.1791	,14:35:49	,16-Aug-2012
50,	16.0,	34.4,	29,	1.3175	,14:39:49	,16-Aug-2012
51,	17.7,	34.5,	29,	1.6246	,14:43:49	,16-Aug-2012
52,	18.6,	34.6,	29,	1.6387	,14:47:49	,16-Aug-2012
53,	15.6,	34.6,	29,	1.2571	,14:51:49	,16-Aug-2012
54,	15.5,	34.7,	28,	1.1510	,14:55:49	,16-Aug-2012
55,	15.6,	34.7,	28,	1.3153	,14:59:49	,16-Aug-2012
56,	16.0,	34.8,	28,	1.2557	,15:03:49	,16-Aug-2012
57,	16.4,	34.8,	28,	1.2071	,15:07:49	,16-Aug-2012
58,	16.4,	34.8,	27,	1.3563	,15:11:49	,16-Aug-2012
59,	16.3,	34.7,	27,	1.3549	,15:15:49	,16-Aug-2012
60,	16.8,	34.7,	27,	1.4797	,15:19:49	,16-Aug-2012
61,	17.2,	34.7,	27,	1.2917	,15:23:49	,16-Aug-2012
62,	16.7,	34.7,	27,	1.4229	,15:27:49	,16-Aug-2012
63,	17.2,	34.7,	27,	1.5636	,15:31:49	,16-Aug-2012
64,	18.0,	34.6,	27,	1.3819	,15:35:49	,16-Aug-2012
65,	18.9,	34.6,	27,	1.5633	,15:39:49	,16-Aug-2012
66,	19.9,	34.5,	27,	1.5300	,15:43:49	,16-Aug-2012
67,	20.2,	34.3,	27,	1.7211	,15:47:49	,16-Aug-2012
68,	18.2,	34.1,	27,	1.2562	,15:51:49	,16-Aug-2012
69,	19.2,	34.0,	28,	1.5020	,15:55:49	,16-Aug-2012
70,	18.7,	33.8,	28,	1.3287	,15:59:49	,16-Aug-2012
71,	18.8,	33.7,	29,	1.1846	,16:03:49	,16-Aug-2012
72,	19.2,	33.7,	29,	1.4130	,16:07:49	,16-Aug-2012
73,	19.8,	33.7,	29,	1.4403	,16:11:49	,16-Aug-2012
74,	19.1,	33.7,	29,	1.3492	,16:15:49	,16-Aug-2012
75,	20.3,	33.7,	29,	1.6018	,16:19:49	,16-Aug-2012
76,	18.8,	33.7,	29,	1.7104	,16:23:49	,16-Aug-2012
77,	19.0,	33.6,	29,	1.3806	,16:27:49	,16-Aug-2012
78,	19.3,	33.4,	29,	1.4464	,16:31:49	,16-Aug-2012
79,	19.9,	33.2,	30,	1.4173	,16:35:49	,16-Aug-2012
80,	19.0,	33.0,	30,	1.3826	,16:39:49	,16-Aug-2012
81,	18.1,	32.7,	30,	1.3540	,16:43:49	,16-Aug-2012
82,	19.3,	32.6,	30,	1.5048	,16:47:49	,16-Aug-2012
83,	20.8,	32.4,	31,	1.3348	,16:51:49	,16-Aug-2012
84,	19.8,	32.2,	31,	1.2818	,16:55:49	,16-Aug-2012
85,	19.5,	32.1,	31,	1.4147	,16:59:49	,16-Aug-2012
86,	18.9,	32.0,	31,	1.2491	,17:03:49	,16-Aug-2012
87,	19.2,	31.9,	32,	1.3384	,17:07:49	,16-Aug-2012
88,	18.7,	31.9,	32,	1.3690	,17:11:49	,16-Aug-2012
89,	19.1,	31.8,	33,	1.2720	,17:15:49	,16-Aug-2012
90,	19.1,	31.8,	33,	1.2332	,17:19:49	,16-Aug-2012
91,	18.8,	31.7,	33,	1.1987	,17:23:49	,16-Aug-2012
92,	18.9,	31.7,	34,	1.1839	,17:27:49	,16-Aug-2012
93,	19.0,	31.7,	34,	1.1896	,17:31:49	,16-Aug-2012
94,	19.5,	31.7,	34,	1.3288	,17:35:49	,16-Aug-2012
95,	19.8,	31.7,	35,	1.2410	,17:39:49	,16-Aug-2012
96,	20.8,	31.6,	35,	1.2691	,17:43:49	,16-Aug-2012
97,	19.4,	31.6,	35,	1.1651	,17:47:49	,16-Aug-2012
98,	19.8,	31.5,	35,	1.1956	,17:51:49	,16-Aug-2012
99,	20.9,	31.4,	36,	1.2263	,17:55:49	,16-Aug-2012
100,	19.4,	31.3,	37,	1.1405	,17:59:49	,16-Aug-2012
101,	19.1,	31.1,	37,	1.1933	,18:03:49	,16-Aug-2012
102,	19.8,	31.0,	37,	1.3208	,18:07:49	,16-Aug-2012
103,	19.7,	31.0,	38,	1.1892	,18:11:49	,16-Aug-2012
104,	19.6,	30.8,	39,	1.1435	,18:15:49	,16-Aug-2012
105,	20.1,	30.7,	39,	1.1676	,18:19:49	,16-Aug-2012
106,	19.0,	30.6,	39,	1.0249	,18:23:49	,16-Aug-2012
107,	19.7,	30.5,	40,	1.3162	,18:27:49	,16-Aug-2012
108,	19.0,	30.4,	40,	1.2817	,18:31:49	,16-Aug-2012
109,	18.3,	30.3,	40,	1.1554	,18:35:49	,16-Aug-2012

110,	18.4,	30.2,	40,	1.2210	,18:39:49	,16-Aug-2012
111,	19.1,	30.1,	40,	1.3101	,18:43:49	,16-Aug-2012
112,	19.4,	30.1,	40,	1.4673	,18:47:49	,16-Aug-2012
113,	18.7,	30.1,	40,	1.2872	,18:51:49	,16-Aug-2012
114,	18.8,	30.1,	41,	1.2874	,18:55:49	,16-Aug-2012
115,	19.4,	30.0,	41,	1.2337	,18:59:49	,16-Aug-2012
116,	19.2,	30.1,	41,	1.3431	,19:03:49	,16-Aug-2012
117,	19.0,	30.0,	41,	1.4096	,19:07:49	,16-Aug-2012
118,	21.2,	30.1,	41,	1.7856	,19:11:49	,16-Aug-2012
119,	18.7,	30.1,	41,	1.3314	,19:15:49	,16-Aug-2012
120,	18.7,	30.1,	40,	1.5431	,19:19:49	,16-Aug-2012
121,	17.9,	30.1,	40,	1.2535	,19:23:49	,16-Aug-2012

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"Tag Number ", 1
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"Start Date ", 17-Aug-2012
"Log Period ", 00:04:00
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"Unit   ", 0
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"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 11.526260
"Max MASS @ ", 42 ,12:54:19 ,17-Aug-2012
"Avg MASS   ", 4.585256
"Max Diam   ", 4.019183
"Max Diam @ ", 11 ,10:50:19 ,17-Aug-2012
"Avg Diam   ", 1.035784
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 1000

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1,	4.4,	22.1,	49,	0.7958	,10:10:19 ,17-Aug-2012
2,	3.9,	22.1,	54,	1.0227	,10:14:19 ,17-Aug-2012
3,	3.9,	22.2,	57,	0.8922	,10:18:19 ,17-Aug-2012
4,	5.0,	22.2,	59,	1.8443	,10:22:19 ,17-Aug-2012
5,	3.7,	22.2,	60,	0.8714	,10:26:19 ,17-Aug-2012
6,	3.3,	22.3,	61,	0.6455	,10:30:19 ,17-Aug-2012
7,	3.7,	22.4,	62,	0.6549	,10:34:19 ,17-Aug-2012
8,	7.5,	22.4,	63,	0.9931	,10:38:19 ,17-Aug-2012
9,	5.4,	22.5,	63,	1.6825	,10:42:19 ,17-Aug-2012
10,	7.5,	22.7,	63,	3.2720	,10:46:19 ,17-Aug-2012
11,	9.8,	22.8,	64,	4.0192	,10:50:19 ,17-Aug-2012
12,	9.3,	22.9,	64,	3.6697	,10:54:19 ,17-Aug-2012
13,	8.4,	23.1,	64,	3.8956	,10:58:19 ,17-Aug-2012
14,	7.5,	23.2,	64,	2.9990	,11:02:19 ,17-Aug-2012
15,	9.4,	23.4,	63,	3.9195	,11:06:19 ,17-Aug-2012
16,	6.0,	23.6,	63,	1.9807	,11:10:19 ,17-Aug-2012
17,	6.0,	23.9,	63,	1.6857	,11:14:19 ,17-Aug-2012
18,	4.8,	24.1,	62,	1.1453	,11:18:19 ,17-Aug-2012
19,	4.3,	24.4,	61,	0.9706	,11:22:19 ,17-Aug-2012
20,	3.8,	24.7,	61,	0.7027	,11:26:19 ,17-Aug-2012
21,	3.9,	24.8,	60,	0.6357	,11:30:19 ,17-Aug-2012
22,	5.1,	24.9,	60,	1.0483	,11:34:19 ,17-Aug-2012
23,	5.3,	25.0,	60,	1.1275	,11:38:19 ,17-Aug-2012
24,	3.8,	25.1,	60,	0.6305	,11:42:19 ,17-Aug-2012
25,	6.8,	25.2,	60,	1.0974	,11:46:19 ,17-Aug-2012
26,	5.2,	25.3,	60,	0.8581	,11:50:19 ,17-Aug-2012
27,	3.8,	25.4,	59,	0.6129	,11:54:19 ,17-Aug-2012
28,	4.2,	25.4,	59,	0.6806	,11:58:19 ,17-Aug-2012
29,	4.0,	25.5,	59,	0.6297	,12:02:19 ,17-Aug-2012
30,	3.7,	25.5,	59,	0.5683	,12:06:19 ,17-Aug-2012
31,	4.5,	25.6,	59,	0.5387	,12:10:19 ,17-Aug-2012
32,	4.1,	25.6,	58,	0.6499	,12:14:19 ,17-Aug-2012
33,	3.8,	25.7,	58,	0.5484	,12:18:19 ,17-Aug-2012
34,	3.7,	25.7,	58,	0.5434	,12:22:19 ,17-Aug-2012
35,	3.2,	25.8,	58,	0.4646	,12:26:19 ,17-Aug-2012
36,	4.0,	25.9,	57,	0.5768	,12:30:19 ,17-Aug-2012
37,	4.6,	25.9,	57,	0.5283	,12:34:19 ,17-Aug-2012
38,	3.7,	26.0,	57,	0.4844	,12:38:19 ,17-Aug-2012
39,	4.2,	26.0,	57,	0.5665	,12:42:19 ,17-Aug-2012
40,	7.3,	26.1,	56,	1.6489	,12:46:19 ,17-Aug-2012
41,	5.8,	26.2,	55,	0.9786	,12:50:19 ,17-Aug-2012
42,	11.5,	26.4,	55,	3.0920	,12:54:19 ,17-Aug-2012

43,	8.8,	26.5,	55,	3.3975	,12:58:19	,17-Aug-2012
44,	6.9,	26.6,	54,	1.2919	,13:02:19	,17-Aug-2012
45,	7.8,	26.7,	54,	2.0637	,13:06:19	,17-Aug-2012
46,	4.6,	26.9,	54,	0.5600	,13:10:19	,17-Aug-2012
47,	5.3,	27.1,	54,	0.6899	,13:14:19	,17-Aug-2012
48,	4.4,	27.3,	54,	0.5501	,13:18:19	,17-Aug-2012
49,	4.5,	27.5,	53,	0.5079	,13:22:19	,17-Aug-2012
50,	3.5,	27.7,	53,	0.4040	,13:26:19	,17-Aug-2012
51,	3.8,	27.9,	52,	0.4507	,13:30:19	,17-Aug-2012
52,	4.8,	28.1,	51,	0.8676	,13:34:19	,17-Aug-2012
53,	8.2,	28.2,	50,	2.6064	,13:38:19	,17-Aug-2012
54,	6.4,	28.2,	49,	1.8077	,13:42:19	,17-Aug-2012
55,	5.2,	28.3,	49,	0.8784	,13:46:19	,17-Aug-2012
56,	5.3,	28.4,	49,	0.7425	,13:50:19	,17-Aug-2012
57,	4.8,	28.4,	49,	0.8910	,13:54:19	,17-Aug-2012
58,	4.8,	28.5,	48,	0.9572	,13:58:19	,17-Aug-2012
59,	3.6,	28.6,	48,	0.5607	,14:02:19	,17-Aug-2012
60,	5.7,	28.7,	47,	1.4971	,14:06:19	,17-Aug-2012
61,	7.8,	28.9,	47,	2.7336	,14:10:19	,17-Aug-2012
62,	3.7,	29.0,	47,	0.8474	,14:14:19	,17-Aug-2012
63,	6.3,	29.0,	47,	2.1779	,14:18:19	,17-Aug-2012
64,	5.3,	29.0,	47,	1.5702	,14:22:19	,17-Aug-2012
65,	3.1,	29.0,	47,	0.4960	,14:26:19	,17-Aug-2012
66,	2.6,	29.1,	47,	0.5319	,14:30:19	,17-Aug-2012
67,	3.5,	29.1,	46,	0.6164	,14:34:19	,17-Aug-2012
68,	4.2,	29.2,	46,	1.0214	,14:38:19	,17-Aug-2012
69,	5.0,	29.4,	45,	1.3139	,14:42:19	,17-Aug-2012
70,	4.5,	29.4,	45,	0.8052	,14:46:19	,17-Aug-2012
71,	5.8,	29.5,	44,	1.0597	,14:50:19	,17-Aug-2012
72,	5.5,	29.6,	45,	1.1631	,14:54:19	,17-Aug-2012
73,	6.0,	29.6,	45,	1.8110	,14:58:19	,17-Aug-2012
74,	6.7,	29.7,	45,	2.5519	,15:02:19	,17-Aug-2012
75,	4.6,	29.8,	44,	1.1288	,15:06:19	,17-Aug-2012
76,	3.5,	29.9,	44,	0.5515	,15:10:19	,17-Aug-2012
77,	4.2,	30.0,	44,	0.5697	,15:14:19	,17-Aug-2012
78,	4.6,	30.1,	44,	0.7759	,15:18:19	,17-Aug-2012
79,	4.1,	30.1,	43,	0.5979	,15:22:19	,17-Aug-2012
80,	4.7,	30.2,	43,	0.7778	,15:26:19	,17-Aug-2012
81,	6.0,	30.2,	42,	1.0907	,15:30:19	,17-Aug-2012
82,	4.7,	30.3,	42,	0.7008	,15:34:19	,17-Aug-2012
83,	3.7,	30.3,	42,	0.6651	,15:38:19	,17-Aug-2012
84,	3.5,	30.4,	42,	0.5541	,15:42:19	,17-Aug-2012
85,	3.4,	30.4,	42,	0.5616	,15:46:19	,17-Aug-2012
86,	4.0,	30.5,	42,	0.6583	,15:50:19	,17-Aug-2012
87,	4.8,	30.5,	41,	0.7379	,15:54:19	,17-Aug-2012
88,	5.1,	30.5,	41,	1.3139	,15:58:19	,17-Aug-2012
89,	4.3,	30.6,	40,	0.6732	,16:02:19	,17-Aug-2012
90,	3.1,	30.6,	40,	0.4880	,16:06:19	,17-Aug-2012
91,	4.1,	30.6,	40,	0.6610	,16:10:19	,17-Aug-2012
92,	3.4,	30.7,	40,	0.4962	,16:14:19	,17-Aug-2012
93,	3.3,	30.7,	39,	0.5223	,16:18:19	,17-Aug-2012
94,	4.1,	30.7,	38,	0.6339	,16:22:19	,17-Aug-2012
95,	3.1,	30.6,	38,	0.6041	,16:26:19	,17-Aug-2012
96,	2.5,	30.6,	37,	0.5014	,16:30:19	,17-Aug-2012
97,	3.1,	30.6,	38,	0.7526	,16:34:19	,17-Aug-2012
98,	3.2,	30.5,	38,	0.8947	,16:38:19	,17-Aug-2012
99,	2.7,	30.5,	38,	0.5066	,16:42:19	,17-Aug-2012
100,	3.3,	30.4,	39,	0.5722	,16:46:19	,17-Aug-2012
101,	3.2,	30.3,	38,	0.5462	,16:50:19	,17-Aug-2012
102,	2.8,	30.3,	38,	0.6118	,16:54:19	,17-Aug-2012
103,	3.0,	30.3,	39,	0.5704	,16:58:19	,17-Aug-2012
104,	3.1,	30.3,	39,	0.4645	,17:02:19	,17-Aug-2012
105,	3.1,	30.2,	39,	0.5307	,17:06:19	,17-Aug-2012
106,	3.0,	30.2,	39,	0.4659	,17:10:19	,17-Aug-2012
107,	4.1,	30.2,	39,	0.6118	,17:14:19	,17-Aug-2012
108,	4.0,	30.2,	40,	0.7353	,17:18:19	,17-Aug-2012
109,	3.7,	30.2,	40,	0.9653	,17:22:19	,17-Aug-2012

110,	3.6,	30.1,	40,	1.0464	,17:26:19	,17-Aug-2012
111,	3.4,	30.1,	40,	0.7417	,17:30:19	,17-Aug-2012
112,	2.9,	30.0,	41,	0.5839	,17:34:19	,17-Aug-2012
113,	3.0,	30.0,	41,	0.5170	,17:38:19	,17-Aug-2012
114,	2.9,	29.9,	41,	0.4576	,17:42:19	,17-Aug-2012
115,	3.0,	29.8,	41,	0.5041	,17:46:19	,17-Aug-2012
116,	3.1,	29.7,	41,	0.5395	,17:50:19	,17-Aug-2012
117,	2.4,	29.6,	41,	0.4349	,17:54:19	,17-Aug-2012
118,	2.5,	29.5,	41,	0.4490	,17:58:19	,17-Aug-2012
119,	2.6,	29.4,	41,	0.4987	,18:02:19	,17-Aug-2012
120,	2.3,	29.2,	41,	0.5086	,18:06:19	,17-Aug-2012
121,	2.3,	29.1,	42,	0.5274	,18:10:19	,17-Aug-2012
122,	2.6,	29.1,	42,	0.4697	,18:14:19	,17-Aug-2012

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"Start Date ", 17-Aug-2012
"Log Period ", 00:04:00
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"Max MASS @ ", 42 ,12:56:20 ,17-Aug-2012
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"Max Diam   ", 3.321404
"Max Diam @ ", 15 ,11:08:20 ,17-Aug-2012
"Avg Diam   ", 1.009579
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"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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1,	3.6,	20.3,	46,	0.3573	,10:12:20	,17-Aug-2012
2,	4.2,	20.4,	53,	0.6046	,10:16:20	,17-Aug-2012
3,	4.6,	20.5,	56,	1.0824	,10:20:20	,17-Aug-2012
4,	4.7,	20.5,	59,	0.9729	,10:24:20	,17-Aug-2012
5,	4.2,	20.6,	60,	1.0367	,10:28:20	,17-Aug-2012
6,	4.1,	20.6,	62,	0.7152	,10:32:20	,17-Aug-2012
7,	6.9,	20.7,	62,	1.2659	,10:36:20	,17-Aug-2012
8,	4.6,	20.8,	63,	1.0894	,10:40:20	,17-Aug-2012
9,	6.7,	20.9,	64,	1.9023	,10:44:20	,17-Aug-2012
10,	7.8,	21.0,	64,	2.7269	,10:48:20	,17-Aug-2012
11,	9.8,	21.1,	65,	3.2705	,10:52:20	,17-Aug-2012
12,	7.6,	21.2,	65,	3.0105	,10:56:20	,17-Aug-2012
13,	7.3,	21.4,	65,	2.6675	,11:00:20	,17-Aug-2012
14,	8.1,	21.5,	65,	2.8487	,11:04:20	,17-Aug-2012
15,	8.4,	21.7,	65,	3.3214	,11:08:20	,17-Aug-2012
16,	5.6,	21.9,	65,	1.2608	,11:12:20	,17-Aug-2012
17,	5.9,	22.1,	64,	1.5405	,11:16:20	,17-Aug-2012
18,	4.2,	22.3,	64,	1.0205	,11:20:20	,17-Aug-2012
19,	4.8,	22.6,	63,	0.8705	,11:24:20	,17-Aug-2012
20,	4.1,	22.7,	63,	0.6042	,11:28:20	,17-Aug-2012
21,	4.7,	22.9,	62,	0.9330	,11:32:20	,17-Aug-2012
22,	5.0,	23.0,	62,	0.9945	,11:36:20	,17-Aug-2012
23,	4.4,	23.1,	62,	0.7083	,11:40:20	,17-Aug-2012
24,	3.7,	23.2,	62,	0.5131	,11:44:20	,17-Aug-2012
25,	7.9,	23.3,	62,	1.0989	,11:48:20	,17-Aug-2012
26,	4.6,	23.4,	62,	0.7623	,11:52:20	,17-Aug-2012
27,	4.1,	23.5,	61,	0.6132	,11:56:20	,17-Aug-2012
28,	4.8,	23.6,	61,	0.7119	,12:00:20	,17-Aug-2012
29,	3.8,	23.6,	61,	0.5586	,12:04:20	,17-Aug-2012
30,	4.2,	23.7,	61,	0.6230	,12:08:20	,17-Aug-2012
31,	4.4,	23.8,	60,	0.5776	,12:12:20	,17-Aug-2012
32,	4.1,	23.9,	60,	0.5672	,12:16:20	,17-Aug-2012
33,	3.5,	24.0,	60,	0.5083	,12:20:20	,17-Aug-2012
34,	4.3,	24.0,	59,	0.7416	,12:24:20	,17-Aug-2012
35,	4.1,	24.1,	59,	0.7183	,12:28:20	,17-Aug-2012
36,	4.4,	24.1,	59,	0.7856	,12:32:20	,17-Aug-2012
37,	4.3,	24.2,	58,	0.5572	,12:36:20	,17-Aug-2012
38,	4.1,	24.3,	58,	0.6353	,12:40:20	,17-Aug-2012
39,	5.8,	24.4,	58,	0.8550	,12:44:20	,17-Aug-2012
40,	6.6,	24.5,	57,	1.2926	,12:48:20	,17-Aug-2012
41,	7.2,	24.6,	57,	1.4178	,12:52:20	,17-Aug-2012
42,	11.1,	24.7,	56,	3.2135	,12:56:20	,17-Aug-2012

43,	7.6,	24.8,	56,	1.4409	,13:00:20	,17-Aug-2012
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46,	4.5,	25.2,	55,	0.4924	,13:12:20	,17-Aug-2012
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48,	4.9,	25.6,	55,	0.6470	,13:20:20	,17-Aug-2012
49,	4.5,	25.8,	54,	0.6282	,13:24:20	,17-Aug-2012
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51,	5.6,	26.1,	53,	1.5362	,13:32:20	,17-Aug-2012
52,	6.5,	26.3,	52,	1.8617	,13:36:20	,17-Aug-2012
53,	8.0,	26.4,	51,	3.0419	,13:40:20	,17-Aug-2012
54,	5.8,	26.5,	50,	0.8827	,13:44:20	,17-Aug-2012
55,	5.7,	26.5,	50,	0.9935	,13:48:20	,17-Aug-2012
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57,	5.2,	26.7,	50,	0.7496	,13:56:20	,17-Aug-2012
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59,	4.6,	26.9,	48,	0.9264	,14:04:20	,17-Aug-2012
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62,	4.4,	27.3,	47,	0.7187	,14:16:20	,17-Aug-2012
63,	6.5,	27.4,	47,	1.7150	,14:20:20	,17-Aug-2012
64,	4.7,	27.4,	48,	0.8812	,14:24:20	,17-Aug-2012
65,	3.6,	27.4,	47,	0.5938	,14:28:20	,17-Aug-2012
66,	3.1,	27.5,	47,	0.5912	,14:32:20	,17-Aug-2012
67,	4.4,	27.6,	47,	0.9792	,14:36:20	,17-Aug-2012
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69,	5.1,	27.7,	45,	1.4237	,14:44:20	,17-Aug-2012
70,	4.7,	27.8,	45,	0.9360	,14:48:20	,17-Aug-2012
71,	7.1,	27.9,	45,	1.7197	,14:52:20	,17-Aug-2012
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86,	4.7,	28.8,	42,	0.7310	,15:52:20	,17-Aug-2012
87,	5.6,	28.8,	41,	0.9671	,15:56:20	,17-Aug-2012
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93,	3.9,	29.0,	39,	0.7231	,16:20:20	,17-Aug-2012
94,	4.2,	29.0,	38,	0.7251	,16:24:20	,17-Aug-2012
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108,	3.9,	28.8,	39,	0.7044	,17:20:20	,17-Aug-2012
109,	4.3,	28.8,	39,	0.8636	,17:24:20	,17-Aug-2012

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111,	3.9,	28.7,	40,	0.7613	,17:32:20	,17-Aug-2012
112,	3.6,	28.7,	40,	0.6966	,17:36:20	,17-Aug-2012
113,	3.5,	28.6,	40,	0.6717	,17:40:20	,17-Aug-2012
114,	3.3,	28.6,	40,	0.5375	,17:44:20	,17-Aug-2012
115,	3.4,	28.6,	40,	0.5697	,17:48:20	,17-Aug-2012
116,	3.0,	28.5,	40,	0.5525	,17:52:20	,17-Aug-2012
117,	3.4,	28.5,	40,	0.7239	,17:56:20	,17-Aug-2012
118,	2.9,	28.4,	40,	0.6488	,18:00:20	,17-Aug-2012
119,	3.1,	28.3,	40,	0.6484	,18:04:20	,17-Aug-2012
120,	3.1,	28.2,	40,	0.9441	,18:08:20	,17-Aug-2012
121,	3.1,	28.2,	41,	0.6608	,18:12:20	,17-Aug-2012

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"Max Diam @ ", 3 ,08:39:25 ,18-Aug-2012
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3,	6.3,	22.5,	48,	1.8545	,08:39:25 ,18-Aug-2012
4,	5.1,	22.6,	48,	0.9694	,08:43:25 ,18-Aug-2012
5,	4.7,	22.6,	47,	0.8218	,08:47:25 ,18-Aug-2012
6,	4.2,	22.7,	47,	0.5809	,08:51:25 ,18-Aug-2012
7,	4.0,	22.9,	47,	0.5803	,08:55:25 ,18-Aug-2012
8,	4.2,	23.0,	46,	0.7379	,08:59:25 ,18-Aug-2012
9,	4.2,	23.2,	46,	0.6497	,09:03:25 ,18-Aug-2012
10,	4.2,	23.5,	46,	0.6910	,09:07:25 ,18-Aug-2012
11,	4.3,	23.7,	46,	0.6441	,09:11:25 ,18-Aug-2012
12,	4.4,	24.0,	45,	0.6519	,09:15:25 ,18-Aug-2012
13,	4.6,	24.2,	44,	0.7768	,09:19:25 ,18-Aug-2012
14,	4.6,	24.5,	44,	0.6930	,09:23:25 ,18-Aug-2012
15,	4.8,	24.8,	43,	0.8699	,09:27:25 ,18-Aug-2012
16,	4.8,	25.1,	43,	0.6876	,09:31:25 ,18-Aug-2012
17,	3.9,	25.4,	42,	0.5238	,09:35:25 ,18-Aug-2012
18,	4.4,	25.6,	42,	0.6932	,09:39:25 ,18-Aug-2012
19,	4.7,	25.9,	41,	1.0218	,09:43:25 ,18-Aug-2012
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21,	4.7,	26.2,	41,	0.8431	,09:51:25 ,18-Aug-2012
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23,	5.3,	26.7,	40,	1.1811	,09:59:25 ,18-Aug-2012
24,	5.0,	26.8,	40,	0.9692	,10:03:25 ,18-Aug-2012
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26,	4.8,	27.0,	39,	0.7556	,10:11:25 ,18-Aug-2012
27,	5.0,	27.0,	39,	0.8123	,10:15:25 ,18-Aug-2012
28,	4.7,	27.0,	39,	0.7613	,10:19:25 ,18-Aug-2012
29,	4.8,	26.9,	39,	0.7831	,10:23:25 ,18-Aug-2012
30,	4.9,	26.7,	39,	0.8015	,10:27:25 ,18-Aug-2012
31,	4.9,	26.6,	39,	0.6816	,10:31:25 ,18-Aug-2012
32,	4.8,	26.6,	39,	0.7560	,10:35:25 ,18-Aug-2012
33,	5.0,	26.5,	39,	0.8004	,10:39:25 ,18-Aug-2012
34,	5.3,	26.5,	39,	0.8503	,10:43:25 ,18-Aug-2012
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36,	5.2,	26.6,	39,	0.8123	,10:51:25 ,18-Aug-2012
37,	4.7,	26.6,	38,	0.6594	,10:55:25 ,18-Aug-2012
38,	4.6,	26.7,	38,	0.6340	,10:59:25 ,18-Aug-2012
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42,	4.7,	26.7,	37,	0.7455	,11:15:25 ,18-Aug-2012

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54,	5.0,	27.1,	36,	0.8940	,12:03:25	,18-Aug-2012
55,	4.8,	27.2,	36,	0.8660	,12:07:25	,18-Aug-2012
56,	4.3,	27.4,	36,	0.6550	,12:11:25	,18-Aug-2012
57,	4.3,	27.4,	35,	0.6749	,12:15:25	,18-Aug-2012
58,	4.8,	27.4,	35,	0.6504	,12:19:25	,18-Aug-2012
59,	4.4,	27.4,	34,	0.6254	,12:23:25	,18-Aug-2012
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61,	4.7,	27.4,	35,	0.8293	,12:31:25	,18-Aug-2012
62,	5.2,	27.4,	35,	0.8979	,12:35:25	,18-Aug-2012
63,	4.7,	27.3,	36,	0.6848	,12:39:25	,18-Aug-2012
64,	4.9,	27.3,	36,	0.6213	,12:43:25	,18-Aug-2012
65,	4.7,	27.3,	36,	0.6196	,12:47:25	,18-Aug-2012
66,	4.5,	27.3,	36,	0.6185	,12:51:25	,18-Aug-2012
67,	4.7,	27.4,	36,	0.6695	,12:55:25	,18-Aug-2012
68,	4.5,	27.5,	36,	0.7156	,12:59:25	,18-Aug-2012
69,	4.4,	27.7,	36,	0.5618	,13:03:25	,18-Aug-2012
70,	4.6,	27.8,	36,	0.6665	,13:07:25	,18-Aug-2012
71,	5.1,	27.9,	35,	0.9781	,13:11:25	,18-Aug-2012
72,	4.4,	28.1,	35,	0.7831	,13:15:25	,18-Aug-2012
73,	4.1,	28.3,	35,	0.5654	,13:19:25	,18-Aug-2012
74,	4.1,	28.6,	35,	0.8452	,13:23:25	,18-Aug-2012
75,	4.2,	28.8,	34,	0.6814	,13:27:25	,18-Aug-2012
76,	4.2,	29.1,	33,	0.7394	,13:31:25	,18-Aug-2012
77,	4.2,	29.4,	33,	0.5880	,13:35:25	,18-Aug-2012
78,	4.8,	29.7,	32,	0.6425	,13:39:25	,18-Aug-2012
79,	3.9,	29.9,	32,	0.4798	,13:43:25	,18-Aug-2012
80,	4.4,	30.0,	32,	0.6367	,13:47:25	,18-Aug-2012
81,	4.7,	30.1,	31,	0.5831	,13:51:25	,18-Aug-2012
82,	4.1,	30.2,	30,	0.5993	,13:55:25	,18-Aug-2012
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84,	4.1,	30.4,	29,	0.5260	,14:03:25	,18-Aug-2012
85,	4.1,	30.5,	29,	0.6911	,14:07:25	,18-Aug-2012
86,	3.5,	30.7,	29,	0.5283	,14:11:25	,18-Aug-2012
87,	3.7,	30.9,	28,	0.5333	,14:15:25	,18-Aug-2012
88,	3.6,	31.1,	27,	0.5273	,14:19:25	,18-Aug-2012
89,	3.2,	31.3,	27,	0.4527	,14:23:25	,18-Aug-2012
90,	3.1,	31.6,	28,	0.4748	,14:27:25	,18-Aug-2012
91,	4.0,	31.9,	28,	0.5328	,14:31:25	,18-Aug-2012
92,	3.0,	32.2,	27,	0.3978	,14:35:25	,18-Aug-2012
93,	3.4,	32.5,	27,	0.4623	,14:39:25	,18-Aug-2012
94,	3.1,	32.6,	26,	0.4591	,14:43:25	,18-Aug-2012
95,	3.2,	32.7,	26,	0.4724	,14:47:25	,18-Aug-2012
96,	2.9,	32.8,	26,	0.4845	,14:51:25	,18-Aug-2012
97,	3.0,	33.0,	26,	0.4806	,14:55:25	,18-Aug-2012
98,	3.0,	33.1,	26,	0.5579	,14:59:25	,18-Aug-2012
99,	3.2,	33.2,	26,	0.5121	,15:03:25	,18-Aug-2012
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107,	3.2,	33.5,	27,	0.4197	,15:35:25	,18-Aug-2012
108,	3.1,	33.5,	27,	0.4318	,15:39:25	,18-Aug-2012
109,	3.7,	33.5,	27,	0.5464	,15:43:25	,18-Aug-2012

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115,	3.2,	32.5,	27,	0.4689	,16:07:25	,18-Aug-2012
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117,	2.7,	32.3,	27,	0.4090	,16:15:25	,18-Aug-2012
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"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
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"Avg MASS   ", 4.865685
"Max Diam   ", 2.066034
"Max Diam @ ", 1 ,08:27:50 ,18-Aug-2012
"Avg Diam   ", 0.907887
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0100

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
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2,	7.2,	21.0,	46,	1.9419	,08:31:50 ,18-Aug-2012
3,	6.9,	21.0,	47,	2.0213	,08:35:50 ,18-Aug-2012
4,	6.1,	21.0,	47,	1.1227	,08:39:50 ,18-Aug-2012
5,	5.5,	21.1,	47,	1.0627	,08:43:50 ,18-Aug-2012
6,	5.1,	21.1,	46,	0.9042	,08:47:50 ,18-Aug-2012
7,	4.6,	21.2,	46,	0.7691	,08:51:50 ,18-Aug-2012
8,	4.4,	21.4,	45,	0.7238	,08:55:50 ,18-Aug-2012
9,	4.7,	21.5,	45,	1.0862	,08:59:50 ,18-Aug-2012
10,	4.3,	21.6,	45,	0.7793	,09:03:50 ,18-Aug-2012
11,	4.6,	21.8,	44,	0.8430	,09:07:50 ,18-Aug-2012
12,	4.6,	22.0,	44,	0.7543	,09:11:50 ,18-Aug-2012
13,	5.9,	22.1,	44,	1.2436	,09:15:50 ,18-Aug-2012
14,	4.8,	22.3,	43,	0.7356	,09:19:50 ,18-Aug-2012
15,	4.3,	22.5,	43,	0.6116	,09:23:50 ,18-Aug-2012
16,	4.9,	22.7,	43,	0.8425	,09:27:50 ,18-Aug-2012
17,	5.4,	22.9,	42,	1.3361	,09:31:50 ,18-Aug-2012
18,	5.0,	23.1,	42,	1.0286	,09:35:50 ,18-Aug-2012
19,	4.9,	23.4,	41,	0.8097	,09:39:50 ,18-Aug-2012
20,	5.2,	23.6,	41,	0.9292	,09:43:50 ,18-Aug-2012
21,	5.0,	23.7,	40,	0.7417	,09:47:50 ,18-Aug-2012
22,	5.3,	23.9,	40,	0.9210	,09:51:50 ,18-Aug-2012
23,	5.3,	24.1,	40,	0.9754	,09:55:50 ,18-Aug-2012
24,	6.2,	24.2,	40,	1.7711	,09:59:50 ,18-Aug-2012
25,	5.3,	24.4,	40,	1.1163	,10:03:50 ,18-Aug-2012
26,	5.7,	24.5,	39,	1.2778	,10:07:50 ,18-Aug-2012
27,	5.3,	24.6,	39,	1.1877	,10:11:50 ,18-Aug-2012
28,	5.6,	24.7,	39,	1.1266	,10:15:50 ,18-Aug-2012
29,	5.2,	24.7,	39,	0.9072	,10:19:50 ,18-Aug-2012
30,	5.6,	24.7,	39,	1.1445	,10:23:50 ,18-Aug-2012
31,	5.6,	24.6,	38,	1.1556	,10:27:50 ,18-Aug-2012
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33,	5.2,	24.5,	38,	1.1521	,10:35:50 ,18-Aug-2012
34,	5.7,	24.5,	38,	1.1348	,10:39:50 ,18-Aug-2012
35,	5.4,	24.5,	38,	0.9646	,10:43:50 ,18-Aug-2012
36,	5.5,	24.6,	38,	1.1250	,10:47:50 ,18-Aug-2012
37,	5.8,	24.6,	38,	1.3039	,10:51:50 ,18-Aug-2012
38,	4.9,	24.6,	38,	0.8146	,10:55:50 ,18-Aug-2012
39,	5.0,	24.7,	38,	0.7697	,10:59:50 ,18-Aug-2012
40,	5.5,	24.7,	38,	0.9389	,11:03:50 ,18-Aug-2012
41,	5.6,	24.7,	37,	1.0185	,11:07:50 ,18-Aug-2012
42,	5.6,	24.8,	37,	1.0445	,11:11:50 ,18-Aug-2012

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44,	6.5,	24.7,	36,	1.0311	,11:19:50	,18-Aug-2012
45,	5.6,	24.7,	36,	1.0796	,11:23:50	,18-Aug-2012
46,	5.2,	24.7,	37,	0.8507	,11:27:50	,18-Aug-2012
47,	5.2,	24.8,	36,	0.7965	,11:31:50	,18-Aug-2012
48,	5.2,	24.8,	36,	0.9294	,11:35:50	,18-Aug-2012
49,	6.0,	24.9,	36,	1.3552	,11:39:50	,18-Aug-2012
50,	5.7,	25.0,	36,	1.0852	,11:43:50	,18-Aug-2012
51,	5.4,	25.1,	36,	0.8836	,11:47:50	,18-Aug-2012
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58,	5.0,	25.3,	34,	0.9722	,12:15:50	,18-Aug-2012
59,	5.0,	25.3,	34,	0.7784	,12:19:50	,18-Aug-2012
60,	5.2,	25.3,	34,	0.9634	,12:23:50	,18-Aug-2012
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65,	5.3,	25.3,	35,	0.8469	,12:43:50	,18-Aug-2012
66,	5.5,	25.3,	36,	1.0732	,12:47:50	,18-Aug-2012
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71,	5.1,	25.6,	36,	0.9708	,13:07:50	,18-Aug-2012
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79,	4.4,	27.2,	32,	0.6464	,13:39:50	,18-Aug-2012
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82,	5.3,	27.6,	31,	1.1461	,13:51:50	,18-Aug-2012
83,	4.7,	27.7,	31,	0.8029	,13:55:50	,18-Aug-2012
84,	5.1,	27.8,	30,	0.7806	,13:59:50	,18-Aug-2012
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88,	4.3,	28.5,	28,	0.7030	,14:15:50	,18-Aug-2012
89,	4.1,	28.8,	27,	0.6596	,14:19:50	,18-Aug-2012
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91,	3.3,	29.3,	28,	0.4803	,14:27:50	,18-Aug-2012
92,	4.3,	29.6,	27,	0.7818	,14:31:50	,18-Aug-2012
93,	4.1,	29.8,	27,	0.7915	,14:35:50	,18-Aug-2012
94,	3.8,	30.1,	26,	0.6875	,14:39:50	,18-Aug-2012
95,	3.7,	30.2,	26,	0.6722	,14:43:50	,18-Aug-2012
96,	3.7,	30.4,	26,	0.6634	,14:47:50	,18-Aug-2012
97,	3.8,	30.5,	26,	0.8064	,14:51:50	,18-Aug-2012
98,	3.5,	30.6,	26,	0.5851	,14:55:50	,18-Aug-2012
99,	3.4,	30.8,	26,	0.6192	,14:59:50	,18-Aug-2012
100,	3.8,	31.0,	26,	0.6549	,15:03:50	,18-Aug-2012
101,	3.8,	31.1,	26,	0.6178	,15:07:50	,18-Aug-2012
102,	4.0,	31.1,	26,	0.7020	,15:11:50	,18-Aug-2012
103,	3.8,	31.1,	25,	0.5618	,15:15:50	,18-Aug-2012
104,	3.6,	31.2,	25,	0.5334	,15:19:50	,18-Aug-2012
105,	3.7,	31.3,	25,	0.6103	,15:23:50	,18-Aug-2012
106,	3.6,	31.4,	26,	0.5217	,15:27:50	,18-Aug-2012
107,	3.9,	31.5,	26,	0.7198	,15:31:50	,18-Aug-2012
108,	3.8,	31.5,	26,	0.5791	,15:35:50	,18-Aug-2012
109,	4.1,	31.5,	26,	0.7542	,15:39:50	,18-Aug-2012

110,	4.2,	31.5,	26,	0.8071	,15:43:50	,18-Aug-2012
111,	4.0,	31.5,	26,	0.8033	,15:47:50	,18-Aug-2012
112,	4.4,	31.4,	26,	0.9344	,15:51:50	,18-Aug-2012
113,	4.2,	31.3,	26,	0.9005	,15:55:50	,18-Aug-2012
114,	4.0,	31.2,	26,	0.8075	,15:59:50	,18-Aug-2012
115,	3.4,	31.1,	26,	0.5552	,16:03:50	,18-Aug-2012
116,	4.0,	31.0,	26,	0.6478	,16:07:50	,18-Aug-2012
117,	3.5,	30.9,	26,	0.5563	,16:11:50	,18-Aug-2012
118,	3.7,	30.8,	26,	0.6426	,16:15:50	,18-Aug-2012
119,	3.9,	30.7,	26,	0.7777	,16:19:50	,18-Aug-2012
120,	4.4,	30.6,	26,	0.9241	,16:23:50	,18-Aug-2012

ADVANCED GeoServices Engineering P.C.
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tel 610-840-9100 fax 610-840-9199
www.advancedgeoservices.com

September 14, 2012 NY02-927

Arlene R. Anderson, OSC
USEPA- Region 2
2890 Woodbridge Ave, MS-211
Edison, NJ 08837

RE: NL Industries/Buffalo Plant Site CERCLA-02-2012-2007
3241 Walden Avenue Right-of-Way Project
Bi-Weekly Report September 14, 2012

Dear Ms. Anderson:

Please find attached the bi-weekly report for the above mentioned project. Please call if you have any questions.

Respectfully,

ADVANCED GEOSERVICES

Kevin O'Rourke
Project Coordinator

KO:vm

Enclosure

cc: Dan Harkay, USEPA
Kevin Lombardozzi, NL Industries, Inc.
Chris Reitman, Advanced GeoServices

NL Industries/Buffalo Plant Superfund Site CERCLA-02-2012-2007
3241 Walden Avenue Right-of-Way Project
Bi-Weekly Report September 14, 2012

A: Actions taken to toward achieving compliance:

- ERI continued to perform the activities consistent with the Work Plan. See below for actual activities.
- ERI and AGE demobilized from the Site on September 14, 2012.

B: Results of sampling:

- AGE performed air monitoring daily. There were four instances where the downwind air monitor exceeded the action level:
  - August 28: No activity was being performed at the time. The exceedances were attributed to damp conditions as the monitor immediately showed an exceedance when engaged.
  - August 30: Soil disturbance was being performed with dust suppression. No visible dust was observed. The exceedance was attributed to traffic and equipment exhaust.
  - September 4: The monitor had exceeded the action level prior to construction activities. Rain had just ceased before the air monitors were engaged. The exceedance was attributed to high levels of humidity.
  - September 5: Similarly to September 4, the monitor had exceeded the action prior to construction activities. Again, the exceedance was attributed to high levels of humidity.

C: Work plans and deliverables completed:

- No deliverables during the reporting period.

D: Descriptions of all actions:

- ERI completed remedial operations along the entire ROW consistent with the Work Plan and modifications. The following activities were performed. .
  - Daily lane closure
  - Excavation and placement in designated low areas of impacted soil;
  - Grading of impacted soil;
  - Placement of geogrid and pavers;
  - Hydroseeding and erosion control matting installation; and,
  - Silt sock installation.

- AGE met with USEPA (9/12 and 9/13) to review the ongoing and completed work. No issues were noted.
- AGE met with NYSDOT to review the lane closure and traffic activities; no issues were noted.
- Chris Reitman of AGE performed a Site inspection (9/12 and 9/13) to review the work. No issues were noted.

E: Percentage of Completion: 96% complete. Turf establishment and removal of E&S materials remain.

F: Modifications to Work Plan:

- Previously, AGE notified USEPA that stone will be placed along driveways at a minimum of 18 inches from the concrete/asphalt. USEPA requested additional depth (4-6 inches) to be excavated at the truck entrance and for stone to be placed prior to geogrid and paver installation for additional stability due to truck traffic. ERI excavated the additional depth consistent with USEPA's request and replaced the material with a modified stone prior to geogrid, paver and modified stone installation. The width varied from two to four feet on the most western driveway.

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/23/2012

CLIENT: NL Industries

WEATHER: 85°F, Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed excavation of the small area (approximately 20 feet by 20 feet) to the east of the eastern driveway to the Cascades property. Approximately 2 inches of material was removed and spread in the ROW immediately to the west of the driveway. The material was graded so that sheet flow to the street was maintained. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and the driveway. Silt socks were delivered to the project site.

Alfred Oyoyo (NYSDOT) was onsite briefly to check the traffic control measures and lane closure. No issues were raised.

AGC performed air monitoring during excavation and soil moving activities. No exceedances to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.

Field Representative: David Benson

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 07:54:43
"Start Date ", 23-Aug-2012
"Log Period ", 00:04:00
"Number   ", 122
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 28.149530
"Max MASS @ ", 69 ,12:30:43 ,23-Aug-2012
"Avg MASS   ", 16.944540
"Max Diam   ", 2.720617
"Max Diam @ ", 42 ,10:42:43 ,23-Aug-2012
"Avg Diam   ", 1.305285
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	21.8,	19.9,	44,	0.7331	,07:58:43	,23-Aug-2012
2,	22.9,	20.0,	47,	0.7132	,08:02:43	,23-Aug-2012
3,	23.0,	20.1,	48,	0.8889	,08:06:43	,23-Aug-2012
4,	25.4,	20.2,	49,	1.1119	,08:10:43	,23-Aug-2012
5,	20.2,	20.3,	50,	0.7168	,08:14:43	,23-Aug-2012
6,	20.0,	20.5,	50,	0.7196	,08:18:43	,23-Aug-2012
7,	19.3,	20.7,	51,	0.6871	,08:22:43	,23-Aug-2012
8,	19.2,	20.9,	51,	0.7071	,08:26:43	,23-Aug-2012
9,	18.6,	21.1,	51,	0.7064	,08:30:43	,23-Aug-2012
10,	19.7,	21.3,	51,	0.7899	,08:34:43	,23-Aug-2012
11,	19.0,	21.6,	51,	0.7327	,08:38:43	,23-Aug-2012
12,	19.7,	21.9,	51,	0.8411	,08:42:43	,23-Aug-2012
13,	18.5,	22.2,	50,	0.7689	,08:46:43	,23-Aug-2012
14,	18.4,	22.5,	50,	0.7935	,08:50:43	,23-Aug-2012
15,	18.2,	22.8,	50,	0.7763	,08:54:43	,23-Aug-2012
16,	20.0,	23.2,	49,	0.9513	,08:58:43	,23-Aug-2012
17,	18.7,	23.5,	49,	0.8481	,09:02:43	,23-Aug-2012
18,	16.8,	23.8,	48,	0.7046	,09:06:43	,23-Aug-2012
19,	16.5,	24.2,	48,	0.7949	,09:10:43	,23-Aug-2012
20,	15.7,	24.6,	47,	0.7586	,09:14:43	,23-Aug-2012
21,	17.5,	24.9,	47,	0.9703	,09:18:43	,23-Aug-2012
22,	16.9,	25.3,	46,	0.9582	,09:22:43	,23-Aug-2012
23,	18.3,	25.6,	45,	1.0184	,09:26:43	,23-Aug-2012
24,	19.5,	26.0,	45,	1.1310	,09:30:43	,23-Aug-2012
25,	20.7,	26.3,	44,	1.0560	,09:34:43	,23-Aug-2012
26,	20.8,	26.6,	44,	1.5501	,09:38:43	,23-Aug-2012
27,	21.3,	27.0,	43,	1.4104	,09:42:43	,23-Aug-2012
28,	17.7,	27.3,	43,	1.1054	,09:46:43	,23-Aug-2012
29,	22.2,	27.6,	42,	1.8165	,09:50:43	,23-Aug-2012
30,	17.2,	27.8,	42,	1.2127	,09:54:43	,23-Aug-2012
31,	14.6,	28.1,	42,	0.8910	,09:58:43	,23-Aug-2012
32,	20.2,	28.4,	41,	1.6061	,10:02:43	,23-Aug-2012
33,	15.4,	28.7,	41,	1.0729	,10:06:43	,23-Aug-2012
34,	17.0,	29.0,	41,	1.0645	,10:10:43	,23-Aug-2012
35,	16.8,	29.2,	40,	1.1761	,10:14:43	,23-Aug-2012
36,	15.5,	29.4,	40,	1.0770	,10:18:43	,23-Aug-2012
37,	16.5,	29.6,	40,	1.3167	,10:22:43	,23-Aug-2012
38,	16.4,	29.8,	39,	1.3369	,10:26:43	,23-Aug-2012
39,	19.0,	30.1,	39,	1.7477	,10:30:43	,23-Aug-2012
40,	16.4,	30.3,	38,	1.5398	,10:34:43	,23-Aug-2012
41,	20.6,	30.5,	37,	2.2046	,10:38:43	,23-Aug-2012
42,	23.7,	30.7,	37,	2.7206	,10:42:43	,23-Aug-2012

43,	20.1,	30.9,	37,	1.9871	,10:46:43	,23-Aug-2012
44,	17.1,	31.1,	36,	1.6805	,10:50:43	,23-Aug-2012
45,	17.7,	31.3,	36,	1.2765	,10:54:43	,23-Aug-2012
46,	13.8,	31.5,	35,	1.1692	,10:58:43	,23-Aug-2012
47,	15.3,	31.7,	35,	1.4372	,11:02:43	,23-Aug-2012
48,	15.4,	32.0,	34,	1.8931	,11:06:43	,23-Aug-2012
49,	17.3,	32.2,	33,	2.6997	,11:10:43	,23-Aug-2012
50,	13.2,	32.5,	33,	1.2039	,11:14:43	,23-Aug-2012
51,	14.3,	32.6,	32,	1.7661	,11:18:43	,23-Aug-2012
52,	15.5,	32.8,	31,	1.8116	,11:22:43	,23-Aug-2012
53,	15.7,	32.9,	31,	1.6934	,11:26:43	,23-Aug-2012
54,	15.1,	33.0,	31,	2.5912	,11:30:43	,23-Aug-2012
55,	14.0,	33.1,	31,	1.3930	,11:34:43	,23-Aug-2012
56,	15.7,	33.2,	30,	1.6630	,11:38:43	,23-Aug-2012
57,	14.9,	33.3,	30,	1.3294	,11:42:43	,23-Aug-2012
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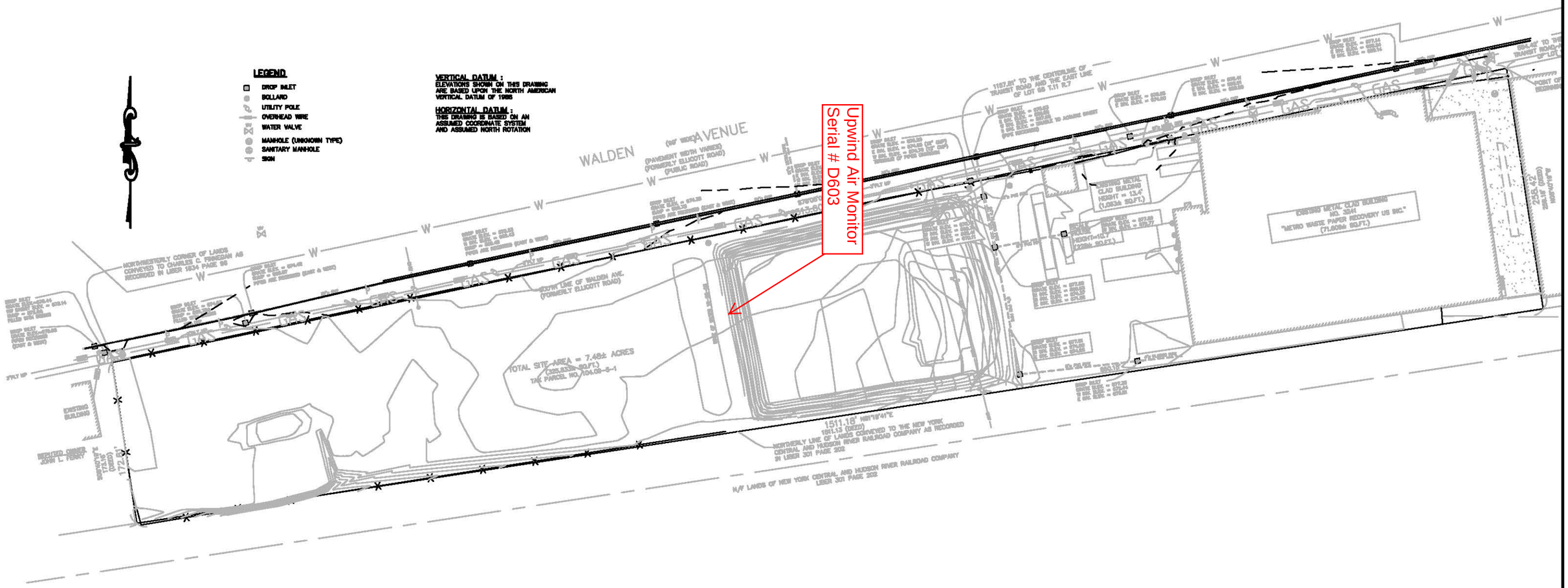

NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

Downwind Air Monitor
Serial # D451

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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Engineering for the Environment. Planning for People.™
1055 ANDREW DRIVE, SUITE A, WEST CHESTER PA, 19380
tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/24/2012

CLIENT: NL Industries

WEATHER: 80°F, Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

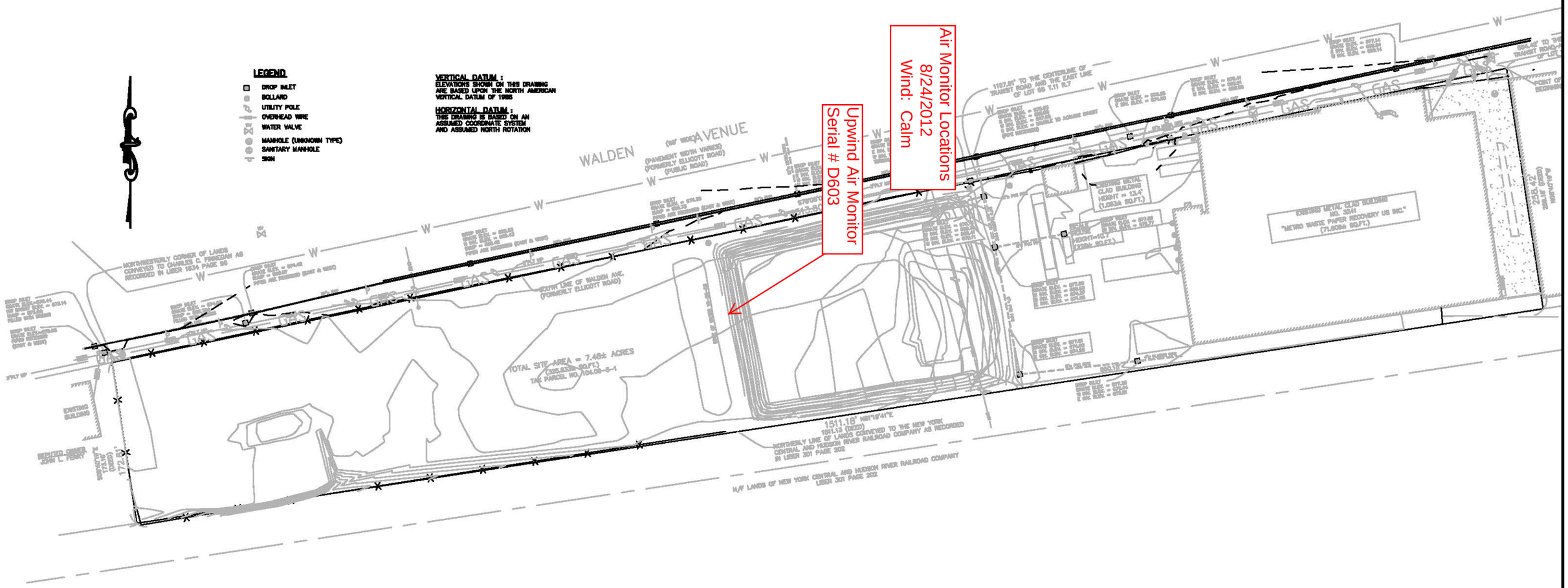
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed excavation from the eastern driveway of the cascades building to approximately 90 feet to the west. Approximately 2 inches of material was removed from along the curb and spread in the ROW in the same area. The material was graded so that sheet flow to the street was maintained. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and the driveway. NYSDOT and NYSDEC were onsite briefly to review the scope of work within the Operations and Maintenance Plan as well as NYDOT's upcoming repair activities for curb inlets along Walden Ave.

AGC performed air monitoring during excavation and soil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.
Kevin O'Rourke was onsite to observe progress of work and to advise on issues raised during the pre-construction walk through.

Field Representative: David Benson



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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 07:18:16
"Start Date ", 24-Aug-2012
"Log Period ", 00:04:00
"Number   ", 114
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 26.406920
"Max MASS @ ", 11 ,08:02:16 ,24-Aug-2012
"Avg MASS   ", 16.430520
"Max Diam   ", 1.460280
"Max Diam @ ", 11 ,08:02:16 ,24-Aug-2012
"Avg Diam   ", 0.772901
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	22.3,	20.9,	34,	0.9360	,07:22:16 ,24-Aug-2012
2,	20.5,	20.8,	41,	0.9623	,07:26:16 ,24-Aug-2012
3,	19.3,	20.7,	45,	0.9747	,07:30:16 ,24-Aug-2012
4,	19.7,	20.8,	47,	0.8643	,07:34:16 ,24-Aug-2012
5,	21.1,	20.9,	49,	0.9248	,07:38:16 ,24-Aug-2012
6,	21.3,	20.9,	50,	0.9526	,07:42:16 ,24-Aug-2012
7,	20.8,	21.0,	50,	0.8868	,07:46:16 ,24-Aug-2012
8,	21.4,	21.1,	51,	0.9150	,07:50:16 ,24-Aug-2012
9,	22.0,	21.2,	51,	0.9062	,07:54:16 ,24-Aug-2012
10,	23.9,	21.4,	51,	1.0897	,07:58:16 ,24-Aug-2012
11,	26.4,	21.5,	52,	1.4603	,08:02:16 ,24-Aug-2012
12,	26.4,	21.7,	52,	1.3322	,08:06:16 ,24-Aug-2012
13,	22.9,	21.9,	52,	1.1635	,08:10:16 ,24-Aug-2012
14,	23.4,	22.1,	52,	1.0470	,08:14:16 ,24-Aug-2012
15,	23.1,	22.3,	51,	1.0715	,08:18:16 ,24-Aug-2012
16,	20.1,	22.5,	51,	0.9105	,08:22:16 ,24-Aug-2012
17,	22.1,	22.7,	51,	1.0125	,08:26:16 ,24-Aug-2012
18,	19.9,	23.0,	51,	0.9140	,08:30:16 ,24-Aug-2012
19,	17.8,	23.3,	50,	0.7734	,08:34:16 ,24-Aug-2012
20,	18.4,	23.6,	50,	0.9965	,08:38:16 ,24-Aug-2012
21,	17.6,	23.9,	49,	0.8445	,08:42:16 ,24-Aug-2012
22,	18.5,	24.1,	49,	0.9795	,08:46:16 ,24-Aug-2012
23,	19.2,	24.4,	49,	1.0794	,08:50:16 ,24-Aug-2012
24,	19.7,	24.7,	48,	1.0742	,08:54:16 ,24-Aug-2012
25,	19.5,	24.9,	48,	0.9285	,08:58:16 ,24-Aug-2012
26,	16.4,	25.2,	47,	0.7954	,09:02:16 ,24-Aug-2012
27,	18.2,	25.5,	47,	0.9300	,09:06:16 ,24-Aug-2012
28,	19.4,	25.7,	47,	1.3565	,09:10:16 ,24-Aug-2012
29,	19.7,	26.0,	46,	1.1651	,09:14:16 ,24-Aug-2012
30,	15.9,	26.3,	46,	0.9499	,09:18:16 ,24-Aug-2012
31,	15.1,	26.6,	46,	0.8704	,09:22:16 ,24-Aug-2012
32,	15.9,	26.9,	45,	1.0207	,09:26:16 ,24-Aug-2012
33,	13.9,	27.3,	45,	0.7960	,09:30:16 ,24-Aug-2012
34,	13.6,	27.7,	44,	0.7248	,09:34:16 ,24-Aug-2012
35,	14.2,	28.0,	44,	0.8113	,09:38:16 ,24-Aug-2012
36,	13.8,	28.4,	43,	0.7678	,09:42:16 ,24-Aug-2012
37,	14.6,	28.8,	42,	0.8765	,09:46:16 ,24-Aug-2012
38,	13.4,	29.2,	42,	0.7408	,09:50:16 ,24-Aug-2012
39,	13.2,	29.6,	41,	0.6491	,09:54:16 ,24-Aug-2012
40,	13.1,	29.9,	41,	0.6839	,09:58:16 ,24-Aug-2012
41,	13.8,	30.3,	40,	0.7511	,10:02:16 ,24-Aug-2012
42,	14.1,	30.7,	40,	0.7967	,10:06:16 ,24-Aug-2012

43,	14.3,	31.1,	40,	0.7961	,10:10:16	,24-Aug-2012
44,	14.9,	31.5,	39,	0.8250	,10:14:16	,24-Aug-2012
45,	13.6,	31.8,	39,	0.7608	,10:18:16	,24-Aug-2012
46,	13.0,	32.2,	38,	0.7193	,10:22:16	,24-Aug-2012
47,	13.3,	32.6,	37,	0.7881	,10:26:16	,24-Aug-2012
48,	12.8,	33.0,	36,	0.7419	,10:30:16	,24-Aug-2012
49,	14.0,	33.4,	36,	0.7486	,10:34:16	,24-Aug-2012
50,	14.2,	33.7,	35,	0.7759	,10:38:16	,24-Aug-2012
51,	14.3,	34.0,	35,	0.7023	,10:42:16	,24-Aug-2012
52,	13.1,	34.3,	35,	0.7090	,10:46:16	,24-Aug-2012
53,	12.6,	34.6,	34,	0.6705	,10:50:16	,24-Aug-2012
54,	12.5,	34.9,	34,	0.6030	,10:54:16	,24-Aug-2012
55,	13.6,	35.1,	33,	0.7111	,10:58:16	,24-Aug-2012
56,	14.4,	35.4,	32,	0.7771	,11:02:16	,24-Aug-2012
57,	16.2,	35.5,	32,	0.8773	,11:06:16	,24-Aug-2012
58,	15.3,	35.7,	32,	0.8902	,11:10:16	,24-Aug-2012
59,	19.3,	35.9,	32,	1.1885	,11:14:16	,24-Aug-2012
60,	17.4,	36.1,	31,	0.9792	,11:18:16	,24-Aug-2012
61,	16.5,	36.3,	30,	1.0075	,11:22:16	,24-Aug-2012
62,	14.0,	36.5,	30,	0.8135	,11:26:16	,24-Aug-2012
63,	13.9,	36.6,	29,	0.7598	,11:30:16	,24-Aug-2012
64,	14.9,	36.8,	30,	0.9090	,11:34:16	,24-Aug-2012
65,	13.6,	37.0,	30,	0.7400	,11:38:16	,24-Aug-2012
66,	13.0,	37.2,	29,	0.6600	,11:42:16	,24-Aug-2012
67,	13.7,	37.5,	29,	0.6419	,11:46:16	,24-Aug-2012
68,	15.6,	37.6,	28,	0.7411	,11:50:16	,24-Aug-2012
69,	14.3,	37.7,	28,	0.6451	,11:54:16	,24-Aug-2012
70,	12.5,	37.8,	28,	0.5595	,11:58:16	,24-Aug-2012
71,	13.7,	38.0,	28,	0.6332	,12:02:16	,24-Aug-2012
72,	13.5,	38.1,	27,	0.6490	,12:06:16	,24-Aug-2012
73,	13.6,	38.3,	27,	0.6129	,12:10:16	,24-Aug-2012
74,	14.0,	38.5,	27,	0.6246	,12:14:16	,24-Aug-2012
75,	15.0,	38.8,	27,	0.6839	,12:18:16	,24-Aug-2012
76,	14.6,	39.0,	26,	0.5528	,12:22:16	,24-Aug-2012
77,	15.3,	39.2,	26,	0.6266	,12:26:16	,24-Aug-2012
78,	16.0,	39.2,	26,	0.6255	,12:30:16	,24-Aug-2012
79,	16.5,	39.3,	25,	0.6733	,12:34:16	,24-Aug-2012
80,	15.9,	39.3,	25,	0.5883	,12:38:16	,24-Aug-2012
81,	16.9,	39.4,	26,	0.7390	,12:42:16	,24-Aug-2012
82,	15.7,	39.6,	25,	0.5920	,12:46:16	,24-Aug-2012
83,	15.7,	39.8,	25,	0.5859	,12:50:16	,24-Aug-2012
84,	15.5,	40.0,	25,	0.5955	,12:54:16	,24-Aug-2012
85,	15.8,	40.2,	25,	0.6192	,12:58:16	,24-Aug-2012
86,	15.8,	40.3,	24,	0.6047	,13:02:16	,24-Aug-2012
87,	15.5,	40.4,	24,	0.6076	,13:06:16	,24-Aug-2012
88,	15.2,	40.4,	24,	0.5522	,13:10:16	,24-Aug-2012
89,	15.4,	40.5,	24,	0.5821	,13:14:16	,24-Aug-2012
90,	15.3,	40.5,	24,	0.6302	,13:18:16	,24-Aug-2012
91,	15.1,	40.6,	24,	0.5668	,13:22:16	,24-Aug-2012
92,	17.1,	40.6,	24,	0.6541	,13:26:16	,24-Aug-2012
93,	14.4,	40.6,	24,	0.5138	,13:30:16	,24-Aug-2012
94,	15.0,	40.6,	24,	0.5847	,13:34:16	,24-Aug-2012
95,	15.6,	40.6,	24,	0.5870	,13:38:16	,24-Aug-2012
96,	16.5,	40.6,	24,	0.6276	,13:42:16	,24-Aug-2012
97,	16.3,	40.5,	24,	0.5908	,13:46:16	,24-Aug-2012
98,	16.1,	40.4,	24,	0.6180	,13:50:16	,24-Aug-2012
99,	16.4,	40.4,	23,	0.6487	,13:54:16	,24-Aug-2012
100,	15.1,	40.4,	23,	0.5880	,13:58:16	,24-Aug-2012
101,	15.3,	40.3,	24,	0.5960	,14:02:16	,24-Aug-2012
102,	15.2,	40.3,	23,	0.5669	,14:06:16	,24-Aug-2012
103,	15.8,	40.3,	24,	0.5778	,14:10:16	,24-Aug-2012
104,	15.0,	40.3,	23,	0.5506	,14:14:16	,24-Aug-2012
105,	14.9,	40.3,	24,	0.5306	,14:18:16	,24-Aug-2012
106,	15.5,	40.3,	24,	0.5976	,14:22:16	,24-Aug-2012
107,	15.3,	40.4,	23,	0.5964	,14:26:16	,24-Aug-2012
108,	16.5,	40.5,	23,	0.6373	,14:30:16	,24-Aug-2012
109,	17.0,	40.6,	23,	0.6772	,14:34:16	,24-Aug-2012

110,	16.0,	40.7,	23,	0.5863	,14:38:16	,24-Aug-2012
111,	15.4,	40.9,	23,	0.5469	,14:42:16	,24-Aug-2012
112,	16.5,	41.0,	23,	0.5836	,14:46:16	,24-Aug-2012
113,	17.9,	41.1,	23,	0.6103	,14:50:16	,24-Aug-2012
114,	17.6,	41.2,	23,	0.6675	,14:54:16	,24-Aug-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 08:10:55
"Start Date ", 24-Aug-2012
"Log Period ", 00:04:00
"Number   ", 103
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
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"Max MASS @ ", 99 ,14:46:55 ,24-Aug-2012
"Avg MASS   ", 17.494250
"Max Diam   ", 2.280602
"Max Diam @ ", 47 ,11:18:55 ,24-Aug-2012
"Avg Diam   ", 0.994950
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	19.6,	20.9,	33,	0.8926	,08:14:55	,24-Aug-2012
2,	22.0,	21.1,	40,	1.0621	,08:18:55	,24-Aug-2012
3,	22.5,	21.3,	42,	1.2727	,08:22:55	,24-Aug-2012
4,	21.5,	21.6,	44,	1.0613	,08:26:55	,24-Aug-2012
5,	19.4,	21.8,	45,	1.0042	,08:30:55	,24-Aug-2012
6,	18.4,	22.1,	45,	0.9410	,08:34:55	,24-Aug-2012
7,	19.7,	22.3,	46,	0.8948	,08:38:55	,24-Aug-2012
8,	17.0,	22.6,	46,	0.8967	,08:42:55	,24-Aug-2012
9,	18.4,	22.9,	46,	1.0333	,08:46:55	,24-Aug-2012
10,	21.4,	23.3,	46,	1.0924	,08:50:55	,24-Aug-2012
11,	21.8,	23.7,	46,	1.1780	,08:54:55	,24-Aug-2012
12,	20.0,	23.9,	46,	1.0496	,08:58:55	,24-Aug-2012
13,	17.2,	24.3,	45,	0.9198	,09:02:55	,24-Aug-2012
14,	18.7,	24.9,	45,	1.2375	,09:06:55	,24-Aug-2012
15,	18.8,	25.3,	45,	1.3671	,09:10:55	,24-Aug-2012
16,	19.4,	25.6,	44,	1.0140	,09:14:55	,24-Aug-2012
17,	19.2,	25.6,	44,	1.2462	,09:18:55	,24-Aug-2012
18,	19.1,	26.0,	44,	1.3042	,09:22:55	,24-Aug-2012
19,	17.8,	26.6,	43,	1.7428	,09:26:55	,24-Aug-2012
20,	14.1,	26.9,	43,	1.0056	,09:30:55	,24-Aug-2012
21,	14.3,	27.3,	42,	0.9077	,09:34:55	,24-Aug-2012
22,	17.5,	27.4,	42,	1.1920	,09:38:55	,24-Aug-2012
23,	14.7,	27.9,	41,	1.0437	,09:42:55	,24-Aug-2012
24,	15.5,	28.3,	40,	1.2026	,09:46:55	,24-Aug-2012
25,	15.3,	28.9,	40,	1.2126	,09:50:55	,24-Aug-2012
26,	13.8,	29.5,	40,	0.9613	,09:54:55	,24-Aug-2012
27,	12.9,	29.8,	39,	0.9596	,09:58:55	,24-Aug-2012
28,	12.6,	30.2,	39,	0.8094	,10:02:55	,24-Aug-2012
29,	13.6,	30.6,	38,	1.0165	,10:06:55	,24-Aug-2012
30,	13.6,	31.0,	38,	1.0197	,10:10:55	,24-Aug-2012
31,	14.6,	31.4,	37,	1.1611	,10:14:55	,24-Aug-2012
32,	15.5,	31.8,	36,	1.0397	,10:18:55	,24-Aug-2012
33,	13.5,	32.2,	36,	0.8786	,10:22:55	,24-Aug-2012
34,	14.7,	32.6,	35,	1.1092	,10:26:55	,24-Aug-2012
35,	13.7,	32.8,	35,	0.8686	,10:30:55	,24-Aug-2012
36,	13.0,	33.3,	34,	0.9731	,10:34:55	,24-Aug-2012
37,	13.2,	33.7,	34,	0.8973	,10:38:55	,24-Aug-2012
38,	13.6,	34.0,	33,	0.8646	,10:42:55	,24-Aug-2012
39,	13.8,	33.9,	32,	0.9465	,10:46:55	,24-Aug-2012
40,	12.6,	34.2,	32,	0.8506	,10:50:55	,24-Aug-2012
41,	12.5,	34.5,	31,	0.8245	,10:54:55	,24-Aug-2012
42,	16.4,	34.8,	31,	1.0348	,10:58:55	,24-Aug-2012

43,	18.8,	35.0,	30,	1.4284	,11:02:55	,24-Aug-2012
44,	17.5,	35.2,	29,	1.5058	,11:06:55	,24-Aug-2012
45,	17.1,	35.3,	29,	1.3647	,11:10:55	,24-Aug-2012
46,	19.1,	35.4,	29,	1.5644	,11:14:55	,24-Aug-2012
47,	21.5,	35.6,	29,	2.2806	,11:18:55	,24-Aug-2012
48,	16.4,	35.7,	28,	1.1075	,11:22:55	,24-Aug-2012
49,	15.4,	35.8,	28,	1.1484	,11:26:55	,24-Aug-2012
50,	15.3,	35.9,	27,	1.0687	,11:30:55	,24-Aug-2012
51,	14.6,	36.1,	27,	1.0793	,11:34:55	,24-Aug-2012
52,	15.7,	36.2,	27,	1.0792	,11:38:55	,24-Aug-2012
53,	15.0,	36.3,	27,	1.0412	,11:42:55	,24-Aug-2012
54,	16.3,	36.5,	26,	1.0611	,11:46:55	,24-Aug-2012
55,	17.1,	36.6,	26,	1.1440	,11:50:55	,24-Aug-2012
56,	15.2,	36.7,	26,	0.8927	,11:54:55	,24-Aug-2012
57,	14.4,	36.8,	26,	0.8343	,11:58:55	,24-Aug-2012
58,	15.4,	37.0,	25,	0.8326	,12:02:55	,24-Aug-2012
59,	16.7,	37.1,	25,	1.0363	,12:06:55	,24-Aug-2012
60,	13.8,	37.3,	25,	0.7615	,12:10:55	,24-Aug-2012
61,	15.0,	37.4,	25,	0.8613	,12:14:55	,24-Aug-2012
62,	16.5,	37.6,	25,	0.8180	,12:18:55	,24-Aug-2012
63,	15.8,	37.7,	25,	0.7453	,12:22:55	,24-Aug-2012
64,	16.8,	37.8,	24,	0.8147	,12:26:55	,24-Aug-2012
65,	16.1,	37.9,	24,	0.7434	,12:30:55	,24-Aug-2012
66,	18.0,	38.0,	24,	0.8308	,12:34:55	,24-Aug-2012
67,	16.9,	38.0,	24,	0.8224	,12:38:55	,24-Aug-2012
68,	16.7,	38.0,	24,	0.7926	,12:42:55	,24-Aug-2012
69,	16.2,	38.1,	24,	0.7541	,12:46:55	,24-Aug-2012
70,	16.0,	38.2,	23,	0.6854	,12:50:55	,24-Aug-2012
71,	17.0,	38.3,	23,	0.7848	,12:54:55	,24-Aug-2012
72,	18.0,	38.4,	23,	0.7906	,12:58:55	,24-Aug-2012
73,	16.3,	38.5,	23,	0.6893	,13:02:55	,24-Aug-2012
74,	16.2,	38.5,	23,	0.7507	,13:06:55	,24-Aug-2012
75,	16.0,	38.6,	23,	0.7260	,13:10:55	,24-Aug-2012
76,	16.5,	38.6,	23,	0.7793	,13:14:55	,24-Aug-2012
77,	17.4,	38.7,	23,	0.8443	,13:18:55	,24-Aug-2012
78,	18.3,	38.7,	23,	0.8792	,13:22:55	,24-Aug-2012
79,	18.0,	38.8,	23,	0.9213	,13:26:55	,24-Aug-2012
80,	16.0,	38.9,	22,	0.7307	,13:30:55	,24-Aug-2012
81,	15.9,	38.9,	22,	0.7544	,13:34:55	,24-Aug-2012
82,	16.2,	39.0,	22,	0.7714	,13:38:55	,24-Aug-2012
83,	17.2,	39.0,	22,	0.7432	,13:42:55	,24-Aug-2012
84,	18.7,	39.0,	22,	0.8493	,13:46:55	,24-Aug-2012
85,	16.7,	39.0,	22,	0.7276	,13:50:55	,24-Aug-2012
86,	17.2,	38.9,	22,	0.7456	,13:54:55	,24-Aug-2012
87,	16.1,	39.0,	22,	0.6907	,13:58:55	,24-Aug-2012
88,	16.6,	38.9,	22,	0.7960	,14:02:55	,24-Aug-2012
89,	16.2,	38.9,	22,	0.7850	,14:06:55	,24-Aug-2012
90,	18.4,	38.9,	22,	0.8378	,14:10:55	,24-Aug-2012
91,	19.7,	38.9,	22,	0.9627	,14:14:55	,24-Aug-2012
92,	19.5,	38.9,	22,	0.8448	,14:18:55	,24-Aug-2012
93,	18.7,	38.9,	22,	0.8700	,14:22:55	,24-Aug-2012
94,	20.1,	38.9,	22,	0.8895	,14:26:55	,24-Aug-2012
95,	17.3,	38.9,	22,	0.7225	,14:30:55	,24-Aug-2012
96,	20.3,	39.0,	22,	0.9781	,14:34:55	,24-Aug-2012
97,	19.1,	39.0,	22,	0.8609	,14:38:55	,24-Aug-2012
98,	26.2,	39.0,	22,	0.9414	,14:42:55	,24-Aug-2012
99,	43.6,	39.1,	22,	1.9310	,14:46:55	,24-Aug-2012
100,	29.4,	39.1,	21,	1.4278	,14:50:55	,24-Aug-2012
101,	30.7,	39.1,	21,	1.4758	,14:54:55	,24-Aug-2012
102,	21.9,	39.2,	21,	1.0364	,14:58:55	,24-Aug-2012
103,	20.4,	39.3,	21,	0.8529	,15:02:55	,24-Aug-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/27/2012

CLIENT: NL Industries

WEATHER: 70° Sunny/Rain

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

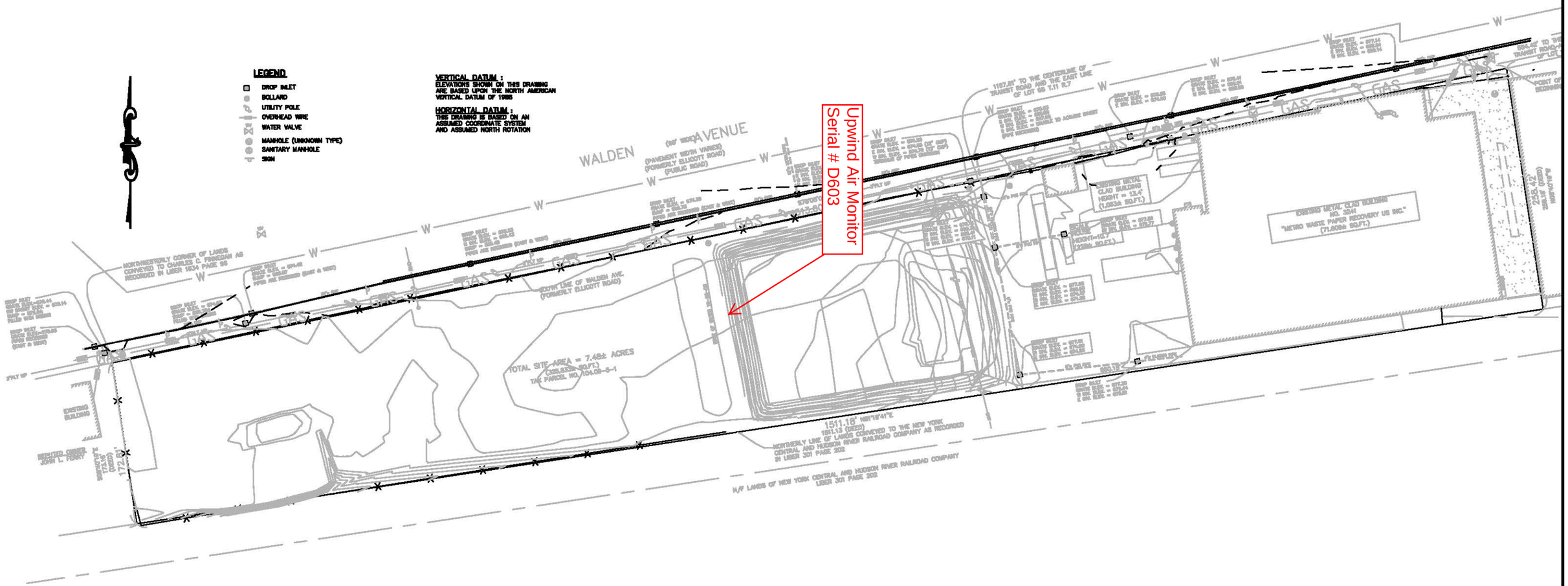
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed excavation from approximately 90 feet west of the eastern driveway of the cascades building to approximately 90 feet further to the west. Approximately 2 inches of material was removed from along the curb and spread in the ROW in the same area. The material was graded so that sheet flow to the street was maintained. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb. ERI completed installing EZ Roll Pavers in the small area east of the eastern most drive way.

AGC performed air monitoring during excavation and soil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.

Field Representative: David Benson



Downwind Air Monitor
Serial # D563

NOTE:
SURVEY INFORMATION VIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 07:13:30
"Start Date ", 27-Aug-2012
"Log Period ", 00:04:00
"Number   ", 80
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 20.888800
"Max MASS @ ", 60 ,11:13:30 ,27-Aug-2012
"Avg MASS   ", 11.602800
"Max Diam   ", 3.651115
"Max Diam @ ", 2 ,07:21:30 ,27-Aug-2012
"Avg Diam   ", 1.568333
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	15.9,	23.0,	42,	2.4784	,07:17:30	,27-Aug-2012
2,	16.0,	23.0,	51,	3.6511	,07:21:30	,27-Aug-2012
3,	13.3,	23.1,	55,	2.7646	,07:25:30	,27-Aug-2012
4,	12.9,	23.1,	58,	2.7025	,07:29:30	,27-Aug-2012
5,	13.1,	23.1,	59,	2.5502	,07:33:30	,27-Aug-2012
6,	17.5,	23.2,	61,	3.4252	,07:37:30	,27-Aug-2012
7,	13.0,	23.2,	62,	2.6767	,07:41:30	,27-Aug-2012
8,	13.3,	23.3,	62,	2.9740	,07:45:30	,27-Aug-2012
9,	12.7,	23.4,	63,	2.5415	,07:49:30	,27-Aug-2012
10,	12.2,	23.5,	64,	2.2266	,07:53:30	,27-Aug-2012
11,	13.0,	23.6,	64,	3.1825	,07:57:30	,27-Aug-2012
12,	13.1,	23.6,	64,	2.9275	,08:01:30	,27-Aug-2012
13,	12.9,	23.8,	64,	3.0690	,08:05:30	,27-Aug-2012
14,	14.0,	23.9,	65,	2.4908	,08:09:30	,27-Aug-2012
15,	15.1,	24.1,	65,	3.0098	,08:13:30	,27-Aug-2012
16,	12.6,	24.2,	64,	2.5405	,08:17:30	,27-Aug-2012
17,	12.0,	24.4,	64,	2.7973	,08:21:30	,27-Aug-2012
18,	11.8,	24.6,	64,	1.7456	,08:25:30	,27-Aug-2012
19,	11.3,	24.7,	64,	1.4197	,08:29:30	,27-Aug-2012
20,	11.5,	24.9,	64,	1.5022	,08:33:30	,27-Aug-2012
21,	11.3,	25.1,	64,	2.0288	,08:37:30	,27-Aug-2012
22,	11.9,	25.3,	63,	1.6944	,08:41:30	,27-Aug-2012
23,	11.4,	25.5,	63,	1.8209	,08:45:30	,27-Aug-2012
24,	10.1,	25.8,	63,	1.2953	,08:49:30	,27-Aug-2012
25,	9.8,	26.0,	62,	1.3842	,08:53:30	,27-Aug-2012
26,	9.7,	26.3,	62,	1.3877	,08:57:30	,27-Aug-2012
27,	9.7,	26.6,	61,	1.5809	,09:01:30	,27-Aug-2012
28,	9.0,	26.8,	61,	1.0695	,09:05:30	,27-Aug-2012
29,	9.0,	27.1,	60,	1.0189	,09:09:30	,27-Aug-2012
30,	8.3,	27.3,	59,	1.1613	,09:13:30	,27-Aug-2012
31,	8.7,	27.5,	59,	1.1482	,09:17:30	,27-Aug-2012
32,	8.5,	27.7,	58,	1.0043	,09:21:30	,27-Aug-2012
33,	8.6,	27.9,	58,	1.1921	,09:25:30	,27-Aug-2012
34,	8.7,	28.0,	57,	1.1495	,09:29:30	,27-Aug-2012
35,	8.4,	28.2,	57,	0.9558	,09:33:30	,27-Aug-2012
36,	8.3,	28.3,	56,	0.9367	,09:37:30	,27-Aug-2012
37,	8.8,	28.5,	56,	0.9003	,09:41:30	,27-Aug-2012
38,	9.4,	28.7,	55,	1.5182	,09:45:30	,27-Aug-2012
39,	9.4,	28.8,	55,	1.1395	,09:49:30	,27-Aug-2012
40,	8.8,	29.0,	54,	1.1142	,09:53:30	,27-Aug-2012
41,	8.9,	29.1,	54,	1.0112	,09:57:30	,27-Aug-2012
42,	9.2,	29.2,	54,	0.9694	,10:01:30	,27-Aug-2012

43,	9.3,	29.3,	53,	1.0534	,10:05:30	,27-Aug-2012
44,	8.9,	29.5,	53,	0.9822	,10:09:30	,27-Aug-2012
45,	8.8,	29.5,	53,	1.0007	,10:13:30	,27-Aug-2012
46,	9.4,	29.6,	53,	1.0612	,10:17:30	,27-Aug-2012
47,	8.9,	29.7,	52,	1.0832	,10:21:30	,27-Aug-2012
48,	9.3,	29.8,	52,	1.2827	,10:25:30	,27-Aug-2012
49,	9.5,	29.9,	52,	1.1527	,10:29:30	,27-Aug-2012
50,	9.0,	30.0,	52,	0.8538	,10:33:30	,27-Aug-2012
51,	10.2,	30.1,	51,	1.2309	,10:37:30	,27-Aug-2012
52,	10.4,	30.1,	51,	1.3406	,10:41:30	,27-Aug-2012
53,	10.1,	30.2,	51,	1.2544	,10:45:30	,27-Aug-2012
54,	9.7,	30.3,	51,	0.8504	,10:49:30	,27-Aug-2012
55,	9.9,	30.3,	50,	1.0524	,10:53:30	,27-Aug-2012
56,	9.6,	30.4,	50,	0.8726	,10:57:30	,27-Aug-2012
57,	10.1,	30.4,	50,	0.9704	,11:01:30	,27-Aug-2012
58,	10.1,	30.4,	49,	0.9484	,11:05:30	,27-Aug-2012
59,	10.3,	30.4,	49,	0.9369	,11:09:30	,27-Aug-2012
60,	20.9,	30.4,	49,	3.2244	,11:13:30	,27-Aug-2012
61,	11.7,	30.4,	48,	1.1054	,11:17:30	,27-Aug-2012
62,	10.5,	30.3,	48,	0.9903	,11:21:30	,27-Aug-2012
63,	11.5,	30.2,	49,	1.1470	,11:25:30	,27-Aug-2012
64,	11.8,	30.1,	49,	1.4324	,11:29:30	,27-Aug-2012
65,	11.1,	30.1,	49,	0.9623	,11:33:30	,27-Aug-2012
66,	11.6,	30.0,	49,	1.2849	,11:37:30	,27-Aug-2012
67,	12.1,	29.9,	49,	1.3674	,11:41:30	,27-Aug-2012
68,	12.2,	29.8,	49,	1.1709	,11:45:30	,27-Aug-2012
69,	12.8,	29.8,	50,	1.1674	,11:49:30	,27-Aug-2012
70,	13.7,	29.7,	50,	1.2548	,11:53:30	,27-Aug-2012
71,	14.3,	29.7,	50,	1.2804	,11:57:30	,27-Aug-2012
72,	13.5,	29.6,	51,	1.0269	,12:01:30	,27-Aug-2012
73,	14.4,	29.5,	51,	1.1024	,12:05:30	,27-Aug-2012
74,	14.2,	29.5,	51,	1.1489	,12:09:30	,27-Aug-2012
75,	14.7,	29.4,	51,	1.0753	,12:13:30	,27-Aug-2012
76,	14.9,	29.3,	51,	1.1690	,12:17:30	,27-Aug-2012
77,	14.8,	29.2,	52,	1.1559	,12:21:30	,27-Aug-2012
78,	14.7,	29.1,	52,	1.1116	,12:25:30	,27-Aug-2012
79,	18.0,	28.9,	53,	1.6789	,12:29:30	,27-Aug-2012
80,	18.4,	28.8,	54,	1.5264	,12:33:30	,27-Aug-2012

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D563   "
"Device no. ", 1
"Tag Number ", 0
"Start Time ", 07:22:10
"Start Date ", 27-Aug-2012
"Log Period ", 00:04:00
"Number   ", 76
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 36.444170
"Max MASS @ ", 7 ,07:50:10 ,27-Aug-2012
"Avg MASS   ", 12.374960
"Max Diam   ", 4.122141
"Max Diam @ ", 10 ,08:02:10 ,27-Aug-2012
"Avg Diam   ", 1.949834
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	9.5,	22.0,	47,	1.2177	,07:26:10 ,27-Aug-2012
2,	9.3,	22.1,	52,	1.6017	,07:30:10 ,27-Aug-2012
3,	7.6,	22.1,	53,	0.9963	,07:34:10 ,27-Aug-2012
4,	14.6,	22.1,	54,	2.6606	,07:38:10 ,27-Aug-2012
5,	11.2,	22.2,	55,	2.0927	,07:42:10 ,27-Aug-2012
6,	15.2,	22.2,	56,	3.3656	,07:46:10 ,27-Aug-2012
7,	36.4,	22.2,	56,	3.7587	,07:50:10 ,27-Aug-2012
8,	18.1,	22.2,	57,	3.9197	,07:54:10 ,27-Aug-2012
9,	15.1,	22.2,	57,	3.2522	,07:58:10 ,27-Aug-2012
10,	31.4,	22.3,	57,	4.1221	,08:02:10 ,27-Aug-2012
11,	20.2,	22.3,	58,	4.0738	,08:06:10 ,27-Aug-2012
12,	12.9,	22.4,	58,	2.5394	,08:10:10 ,27-Aug-2012
13,	13.0,	22.5,	58,	2.3058	,08:14:10 ,27-Aug-2012
14,	11.9,	22.5,	58,	2.0720	,08:18:10 ,27-Aug-2012
15,	15.5,	22.6,	58,	2.1688	,08:22:10 ,27-Aug-2012
16,	12.8,	22.7,	58,	2.3447	,08:26:10 ,27-Aug-2012
17,	12.6,	22.8,	58,	1.9072	,08:30:10 ,27-Aug-2012
18,	10.7,	22.9,	58,	1.8912	,08:34:10 ,27-Aug-2012
19,	10.6,	23.0,	58,	2.0463	,08:38:10 ,27-Aug-2012
20,	10.0,	23.1,	59,	1.3749	,08:42:10 ,27-Aug-2012
21,	12.8,	23.3,	59,	1.6291	,08:46:10 ,27-Aug-2012
22,	8.8,	23.4,	58,	1.1477	,08:50:10 ,27-Aug-2012
23,	11.9,	23.6,	58,	1.6155	,08:54:10 ,27-Aug-2012
24,	14.6,	23.7,	58,	3.2577	,08:58:10 ,27-Aug-2012
25,	11.6,	23.9,	58,	1.7115	,09:02:10 ,27-Aug-2012
26,	10.7,	24.1,	58,	1.7229	,09:06:10 ,27-Aug-2012
27,	11.7,	24.2,	57,	1.7891	,09:10:10 ,27-Aug-2012
28,	19.2,	24.4,	57,	3.8484	,09:14:10 ,27-Aug-2012
29,	15.9,	24.6,	57,	3.8475	,09:18:10 ,27-Aug-2012
30,	12.9,	24.7,	56,	3.3711	,09:22:10 ,27-Aug-2012
31,	14.9,	24.9,	56,	4.0094	,09:26:10 ,27-Aug-2012
32,	12.2,	25.0,	56,	2.7610	,09:30:10 ,27-Aug-2012
33,	10.9,	25.1,	56,	1.9112	,09:34:10 ,27-Aug-2012
34,	11.3,	25.3,	55,	1.9337	,09:38:10 ,27-Aug-2012
35,	11.8,	25.4,	55,	2.6662	,09:42:10 ,27-Aug-2012
36,	12.3,	25.5,	55,	2.4825	,09:46:10 ,27-Aug-2012
37,	11.8,	25.6,	54,	2.2892	,09:50:10 ,27-Aug-2012
38,	10.4,	25.8,	54,	1.4996	,09:54:10 ,27-Aug-2012
39,	11.2,	25.9,	54,	1.8380	,09:58:10 ,27-Aug-2012
40,	9.8,	26.1,	54,	1.7028	,10:02:10 ,27-Aug-2012
41,	9.4,	26.2,	53,	1.2383	,10:06:10 ,27-Aug-2012
42,	9.4,	26.3,	53,	1.1267	,10:10:10 ,27-Aug-2012

43,	9.5,	26.4,	53,	1.1534	,10:14:10	,27-Aug-2012
44,	7.6,	26.5,	53,	0.7946	,10:18:10	,27-Aug-2012
45,	8.9,	26.6,	52,	1.0642	,10:22:10	,27-Aug-2012
46,	11.2,	26.7,	52,	2.2592	,10:26:10	,27-Aug-2012
47,	10.7,	26.9,	52,	1.5818	,10:30:10	,27-Aug-2012
48,	10.1,	27.0,	52,	1.2356	,10:34:10	,27-Aug-2012
49,	9.3,	27.1,	51,	0.9636	,10:38:10	,27-Aug-2012
50,	8.6,	27.2,	51,	0.8937	,10:42:10	,27-Aug-2012
51,	8.9,	27.2,	51,	0.9222	,10:46:10	,27-Aug-2012
52,	9.1,	27.3,	51,	1.3788	,10:50:10	,27-Aug-2012
53,	9.2,	27.5,	50,	1.0907	,10:54:10	,27-Aug-2012
54,	10.7,	27.5,	50,	1.4210	,10:58:10	,27-Aug-2012
55,	12.5,	27.6,	49,	2.1641	,11:02:10	,27-Aug-2012
56,	15.4,	27.7,	49,	2.4739	,11:06:10	,27-Aug-2012
57,	12.3,	27.7,	48,	2.2607	,11:10:10	,27-Aug-2012
58,	20.0,	27.8,	48,	3.7599	,11:14:10	,27-Aug-2012
59,	10.0,	27.9,	48,	1.1001	,11:18:10	,27-Aug-2012
60,	16.3,	27.9,	48,	2.5633	,11:22:10	,27-Aug-2012
61,	21.8,	27.9,	48,	3.4319	,11:26:10	,27-Aug-2012
62,	10.8,	27.9,	48,	1.6855	,11:30:10	,27-Aug-2012
63,	8.7,	27.9,	48,	0.8670	,11:34:10	,27-Aug-2012
64,	8.8,	27.9,	48,	0.8610	,11:38:10	,27-Aug-2012
65,	8.2,	27.9,	48,	0.7481	,11:42:10	,27-Aug-2012
66,	9.5,	27.8,	48,	0.9492	,11:46:10	,27-Aug-2012
67,	11.0,	27.8,	48,	1.2987	,11:50:10	,27-Aug-2012
68,	11.3,	27.8,	48,	1.3481	,11:54:10	,27-Aug-2012
69,	11.1,	27.8,	48,	1.5053	,11:58:10	,27-Aug-2012
70,	11.2,	27.8,	48,	1.1974	,12:02:10	,27-Aug-2012
71,	11.6,	27.8,	48,	1.2111	,12:06:10	,27-Aug-2012
72,	11.1,	27.7,	48,	1.0814	,12:10:10	,27-Aug-2012
73,	10.7,	27.7,	48,	1.2014	,12:14:10	,27-Aug-2012
74,	9.4,	27.6,	48,	0.8592	,12:18:10	,27-Aug-2012
75,	11.0,	27.6,	49,	1.0082	,12:22:10	,27-Aug-2012
76,	9.7,	27.5,	49,	0.7425	,12:26:10	,27-Aug-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/28/2012

CLIENT: NL Industries

WEATHER: 80° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

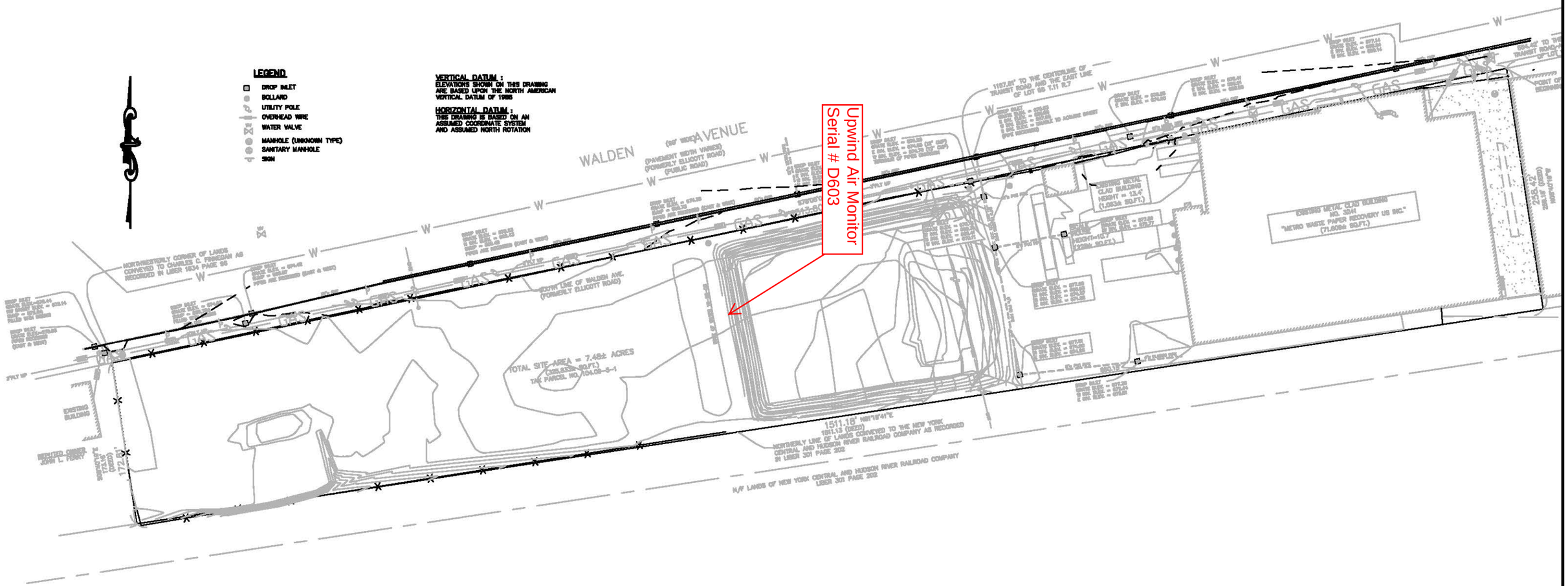
PROGRESS OF WORK:

ERI completed excavation from approximately 180 feet west of the eastern driveway of the cascades building to approximately 90 feet further to the west. Approximately 2 inches of material was removed from along the curb and spread in the ROW in the same area. The material was graded so that sheet flow to the street was maintained. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb. ERI began installing EZ Roll Pavers in the small area west of the eastern most drive way. ERI also completed the stone area under the roof drain from the cascades building. Approximately six inches of soil was removed, from the area that displayed erosion due to the drain. Synteen SR18 and non-woven geotextile was placed, and four inch stone was placed on that.

AGC performed air monitoring during excavation and soil moving activities. Exceedences to the action limit were observed in the morning. The contractor was advised to increase efforts at dust suppression. The contractor complied by slowing down the equipment and watering more intensively. No visible dust was observed after modifications to dust suppression were made. Air monitoring data is attached to this report.

EPA was onsite throughout the day.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

Downwind Air Monitor
Serial # D451

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ADVANCED GeoServices Engineering P.C.
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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

"Model Number", "DataRAM 4 ", 104
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"Device no. ", 1
"Tag Number ", 2
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"Start Date ", 28-Aug-2012
"Log Period ", 00:04:00
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"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 46.862620
"Max MASS @ ", 2 ,07:39:16 ,28-Aug-2012
"Avg MASS   ", 20.940370
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,07:39:16 ,28-Aug-2012
"Avg Diam   ", 1.885659
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	46.8,	22.2,	61,	3.4846	,07:35:16 ,28-Aug-2012
2,	46.9,	22.1,	64,	4.1270	,07:39:16 ,28-Aug-2012
3,	46.4,	22.0,	67,	4.1115	,07:43:16 ,28-Aug-2012
4,	45.4,	22.0,	68,	4.1270	,07:47:16 ,28-Aug-2012
5,	42.7,	22.1,	69,	4.1270	,07:51:16 ,28-Aug-2012
6,	41.5,	22.1,	70,	4.1115	,07:55:16 ,28-Aug-2012
7,	41.0,	22.2,	70,	4.1270	,07:59:16 ,28-Aug-2012
8,	39.3,	22.4,	70,	4.1270	,08:03:16 ,28-Aug-2012
9,	36.6,	22.5,	71,	4.1270	,08:07:16 ,28-Aug-2012
10,	36.3,	22.7,	71,	4.1210	,08:11:16 ,28-Aug-2012
11,	32.6,	22.9,	71,	4.1247	,08:15:16 ,28-Aug-2012
12,	30.2,	23.0,	71,	3.7571	,08:19:16 ,28-Aug-2012
13,	26.7,	23.2,	71,	3.5549	,08:23:16 ,28-Aug-2012
14,	26.7,	23.4,	70,	3.8496	,08:27:16 ,28-Aug-2012
15,	27.9,	23.6,	70,	3.5676	,08:31:16 ,28-Aug-2012
16,	24.1,	23.8,	70,	3.7441	,08:35:16 ,28-Aug-2012
17,	24.4,	24.0,	69,	3.9314	,08:39:16 ,28-Aug-2012
18,	23.6,	24.2,	69,	4.0734	,08:43:16 ,28-Aug-2012
19,	21.5,	24.4,	68,	3.0468	,08:47:16 ,28-Aug-2012
20,	21.6,	24.6,	68,	3.3605	,08:51:16 ,28-Aug-2012
21,	20.9,	24.7,	67,	3.0421	,08:55:16 ,28-Aug-2012
22,	20.8,	24.9,	67,	2.8614	,08:59:16 ,28-Aug-2012
23,	20.2,	25.1,	66,	3.0018	,09:03:16 ,28-Aug-2012
24,	19.6,	25.2,	65,	3.2353	,09:07:16 ,28-Aug-2012
25,	26.5,	25.2,	65,	2.9601	,09:11:16 ,28-Aug-2012
26,	21.2,	25.3,	65,	3.1888	,09:15:16 ,28-Aug-2012
27,	20.1,	25.3,	65,	2.6042	,09:19:16 ,28-Aug-2012
28,	20.6,	25.3,	64,	3.2774	,09:23:16 ,28-Aug-2012
29,	19.9,	25.3,	64,	2.7240	,09:27:16 ,28-Aug-2012
30,	20.1,	25.3,	64,	2.7069	,09:31:16 ,28-Aug-2012
31,	19.0,	25.3,	64,	2.7713	,09:35:16 ,28-Aug-2012
32,	15.8,	25.3,	64,	1.6177	,09:39:16 ,28-Aug-2012
33,	17.3,	25.3,	64,	2.0132	,09:43:16 ,28-Aug-2012
34,	19.2,	25.4,	64,	2.9015	,09:47:16 ,28-Aug-2012
35,	21.2,	25.4,	64,	3.7730	,09:51:16 ,28-Aug-2012
36,	15.5,	25.5,	64,	2.1735	,09:55:16 ,28-Aug-2012
37,	15.8,	25.5,	64,	2.0050	,09:59:16 ,28-Aug-2012
38,	15.2,	25.6,	64,	1.8332	,10:03:16 ,28-Aug-2012
39,	18.6,	25.7,	63,	2.5273	,10:07:16 ,28-Aug-2012
40,	14.7,	25.7,	63,	1.4116	,10:11:16 ,28-Aug-2012
41,	15.8,	25.8,	63,	1.7768	,10:15:16 ,28-Aug-2012
42,	16.1,	25.9,	62,	1.6517	,10:19:16 ,28-Aug-2012

43,	15.1,	26.0,	62,	1.8672	,10:23:16	,28-Aug-2012
44,	16.1,	26.1,	62,	1.8229	,10:27:16	,28-Aug-2012
45,	14.9,	26.2,	62,	1.3796	,10:31:16	,28-Aug-2012
46,	14.3,	26.3,	62,	1.1445	,10:35:16	,28-Aug-2012
47,	14.9,	26.5,	61,	1.5042	,10:39:16	,28-Aug-2012
48,	14.2,	26.6,	61,	1.2153	,10:43:16	,28-Aug-2012
49,	14.5,	26.7,	61,	1.5175	,10:47:16	,28-Aug-2012
50,	15.5,	26.8,	60,	1.3526	,10:51:16	,28-Aug-2012
51,	14.8,	26.9,	60,	1.4358	,10:55:16	,28-Aug-2012
52,	15.0,	27.0,	60,	1.1860	,10:59:16	,28-Aug-2012
53,	14.9,	27.2,	60,	1.3197	,11:03:16	,28-Aug-2012
54,	15.1,	27.4,	59,	1.1466	,11:07:16	,28-Aug-2012
55,	14.7,	27.6,	58,	1.0881	,11:11:16	,28-Aug-2012
56,	15.0,	27.7,	58,	1.2136	,11:15:16	,28-Aug-2012
57,	14.4,	27.8,	57,	1.0005	,11:19:16	,28-Aug-2012
58,	14.3,	27.9,	57,	1.1100	,11:23:16	,28-Aug-2012
59,	15.0,	28.0,	57,	1.0451	,11:27:16	,28-Aug-2012
60,	15.3,	28.1,	56,	1.0669	,11:31:16	,28-Aug-2012
61,	15.2,	28.1,	56,	0.9797	,11:35:16	,28-Aug-2012
62,	17.1,	28.0,	56,	1.1395	,11:39:16	,28-Aug-2012
63,	16.0,	28.0,	56,	1.2106	,11:43:16	,28-Aug-2012
64,	15.7,	28.1,	56,	1.0638	,11:47:16	,28-Aug-2012
65,	16.0,	28.2,	55,	1.1486	,11:51:16	,28-Aug-2012
66,	16.7,	28.3,	55,	1.1450	,11:55:16	,28-Aug-2012
67,	16.1,	28.4,	55,	1.1434	,11:59:16	,28-Aug-2012
68,	17.0,	28.5,	54,	1.2002	,12:03:16	,28-Aug-2012
69,	17.9,	28.5,	54,	1.1201	,12:07:16	,28-Aug-2012
70,	18.3,	28.6,	54,	1.1667	,12:11:16	,28-Aug-2012
71,	18.3,	28.6,	54,	1.1504	,12:15:16	,28-Aug-2012
72,	17.6,	28.7,	54,	1.1647	,12:19:16	,28-Aug-2012
73,	17.6,	28.9,	54,	1.1538	,12:23:16	,28-Aug-2012
74,	18.0,	29.1,	54,	1.1385	,12:27:16	,28-Aug-2012
75,	17.5,	29.2,	53,	1.2278	,12:31:16	,28-Aug-2012
76,	17.8,	29.4,	53,	1.0738	,12:35:16	,28-Aug-2012
77,	18.4,	29.5,	52,	1.0698	,12:39:16	,28-Aug-2012
78,	22.4,	29.6,	51,	1.1546	,12:43:16	,28-Aug-2012
79,	22.1,	29.7,	51,	1.1293	,12:47:16	,28-Aug-2012
80,	22.1,	29.8,	51,	1.0371	,12:51:16	,28-Aug-2012
81,	24.0,	29.9,	51,	1.0269	,12:55:16	,28-Aug-2012
82,	23.5,	30.0,	51,	1.0445	,12:59:16	,28-Aug-2012
83,	24.9,	30.1,	50,	1.1101	,13:03:16	,28-Aug-2012
84,	25.9,	30.3,	49,	1.0890	,13:07:16	,28-Aug-2012
85,	24.3,	30.4,	49,	1.1301	,13:11:16	,28-Aug-2012
86,	24.5,	30.6,	49,	1.0147	,13:15:16	,28-Aug-2012
87,	20.6,	30.8,	48,	0.9691	,13:19:16	,28-Aug-2012
88,	21.0,	31.0,	47,	1.0299	,13:23:16	,28-Aug-2012
89,	20.9,	31.2,	47,	1.0268	,13:27:16	,28-Aug-2012
90,	21.4,	31.3,	46,	1.0667	,13:31:16	,28-Aug-2012
91,	20.2,	31.5,	46,	1.1180	,13:35:16	,28-Aug-2012
92,	20.4,	31.6,	46,	1.0130	,13:39:16	,28-Aug-2012
93,	20.1,	31.7,	45,	0.9937	,13:43:16	,28-Aug-2012
94,	21.6,	31.8,	45,	1.0202	,13:47:16	,28-Aug-2012
95,	21.9,	31.9,	45,	1.0979	,13:51:16	,28-Aug-2012
96,	21.1,	32.0,	45,	0.9854	,13:55:16	,28-Aug-2012
97,	20.4,	32.0,	44,	1.0753	,13:59:16	,28-Aug-2012
98,	18.3,	32.0,	44,	1.0586	,14:03:16	,28-Aug-2012
99,	18.0,	32.0,	44,	1.0111	,14:07:16	,28-Aug-2012
100,	19.0,	32.1,	44,	1.1275	,14:11:16	,28-Aug-2012
101,	19.6,	32.1,	44,	1.0294	,14:15:16	,28-Aug-2012
102,	18.9,	32.2,	43,	0.9417	,14:19:16	,28-Aug-2012
103,	18.0,	32.1,	43,	1.0273	,14:23:16	,28-Aug-2012
104,	18.0,	32.1,	43,	0.9295	,14:27:16	,28-Aug-2012
105,	17.6,	32.2,	43,	0.9829	,14:31:16	,28-Aug-2012
106,	17.8,	32.2,	43,	1.0132	,14:35:16	,28-Aug-2012
107,	16.1,	32.2,	42,	0.9948	,14:39:16	,28-Aug-2012
108,	17.1,	32.3,	42,	1.0456	,14:43:16	,28-Aug-2012
109,	17.6,	32.4,	42,	1.0868	,14:47:16	,28-Aug-2012

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110,        15.4,  32.6,   41,   1.0786  ,14:51:16  ,28-Aug-2012
111,        15.2,  32.7,   41,   1.0131  ,14:55:16  ,28-Aug-2012
112,        13.9,  32.9,   40,   1.0854  ,14:59:16  ,28-Aug-2012
113,        13.8,  33.1,   40,   0.8977  ,15:03:16  ,28-Aug-2012
114,        14.2,  33.4,   40,   1.1392  ,15:07:16  ,28-Aug-2012
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"Start Date ", 28-Aug-2012
"Log Period ", 00:04:00
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"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
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"Avg MASS   ", 26.548920
"Max Diam   ", 4.126979
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"Avg Diam   ", 2.177098
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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2,	73.1,	20.9,	54,	4.1270	,07:43:44	,28-Aug-2012
3,	78.0,	20.9,	58,	4.1270	,07:47:44	,28-Aug-2012
4,	58.7,	20.8,	61,	4.1270	,07:51:44	,28-Aug-2012
5,	66.7,	20.7,	63,	4.1270	,07:55:44	,28-Aug-2012
6,	61.4,	20.7,	64,	4.1270	,07:59:44	,28-Aug-2012
7,	55.3,	20.7,	65,	4.1260	,08:03:44	,28-Aug-2012
8,	54.6,	20.7,	66,	4.0886	,08:07:44	,28-Aug-2012
9,	55.5,	20.6,	67,	4.1270	,08:11:44	,28-Aug-2012
10,	54.1,	20.6,	68,	4.1270	,08:15:44	,28-Aug-2012
11,	48.1,	20.6,	69,	4.1270	,08:19:44	,28-Aug-2012
12,	42.9,	20.6,	69,	4.1270	,08:23:44	,28-Aug-2012
13,	36.4,	20.6,	70,	4.0460	,08:27:44	,28-Aug-2012
14,	34.7,	20.6,	70,	4.0863	,08:31:44	,28-Aug-2012
15,	30.0,	20.6,	70,	3.9448	,08:35:44	,28-Aug-2012
16,	33.2,	20.7,	71,	3.9910	,08:39:44	,28-Aug-2012
17,	33.9,	20.7,	71,	4.1264	,08:43:44	,28-Aug-2012
18,	30.3,	20.7,	71,	3.9327	,08:47:44	,28-Aug-2012
19,	29.0,	20.7,	71,	3.7672	,08:51:44	,28-Aug-2012
20,	27.8,	20.7,	71,	3.3556	,08:55:44	,28-Aug-2012
21,	25.3,	20.8,	72,	3.5759	,08:59:44	,28-Aug-2012
22,	27.0,	20.9,	72,	3.6469	,09:03:44	,28-Aug-2012
23,	25.2,	20.9,	72,	3.5594	,09:07:44	,28-Aug-2012
24,	27.9,	21.0,	72,	3.7753	,09:11:44	,28-Aug-2012
25,	25.6,	21.1,	72,	4.0369	,09:15:44	,28-Aug-2012
26,	28.6,	21.2,	72,	3.0755	,09:19:44	,28-Aug-2012
27,	29.9,	21.2,	72,	3.4209	,09:23:44	,28-Aug-2012
28,	27.5,	21.4,	72,	3.8418	,09:27:44	,28-Aug-2012
29,	24.5,	21.5,	72,	3.7045	,09:31:44	,28-Aug-2012
30,	22.0,	21.6,	72,	2.9593	,09:35:44	,28-Aug-2012
31,	19.4,	21.7,	72,	3.0516	,09:39:44	,28-Aug-2012
32,	18.6,	21.8,	71,	2.5088	,09:43:44	,28-Aug-2012
33,	18.1,	21.9,	71,	2.5611	,09:47:44	,28-Aug-2012
34,	17.4,	22.0,	71,	2.0321	,09:51:44	,28-Aug-2012
35,	15.4,	22.1,	71,	1.6291	,09:55:44	,28-Aug-2012
36,	14.8,	22.2,	70,	1.4395	,09:59:44	,28-Aug-2012
37,	14.4,	22.4,	70,	1.5382	,10:03:44	,28-Aug-2012
38,	16.6,	22.5,	70,	2.0124	,10:07:44	,28-Aug-2012
39,	17.1,	22.6,	69,	1.4256	,10:11:44	,28-Aug-2012
40,	17.2,	22.7,	69,	1.6824	,10:15:44	,28-Aug-2012
41,	19.7,	22.8,	68,	2.5297	,10:19:44	,28-Aug-2012
42,	14.9,	23.0,	68,	1.8566	,10:23:44	,28-Aug-2012

43,	16.8,	23.1,	68,	1.7020	,10:27:44	,28-Aug-2012
44,	17.8,	23.2,	67,	1.8154	,10:31:44	,28-Aug-2012
45,	17.5,	23.4,	67,	1.5439	,10:35:44	,28-Aug-2012
46,	17.0,	23.5,	67,	1.5746	,10:39:44	,28-Aug-2012
47,	18.1,	23.6,	66,	2.3113	,10:43:44	,28-Aug-2012
48,	16.9,	23.8,	66,	1.3815	,10:47:44	,28-Aug-2012
49,	18.5,	23.9,	65,	1.9415	,10:51:44	,28-Aug-2012
50,	21.4,	24.0,	65,	1.8689	,10:55:44	,28-Aug-2012
51,	21.4,	24.1,	64,	1.7484	,10:59:44	,28-Aug-2012
52,	17.8,	24.2,	64,	1.3725	,11:03:44	,28-Aug-2012
53,	18.0,	24.3,	63,	1.3556	,11:07:44	,28-Aug-2012
54,	16.8,	24.3,	63,	1.1338	,11:11:44	,28-Aug-2012
55,	17.9,	24.4,	62,	1.3567	,11:15:44	,28-Aug-2012
56,	17.1,	24.5,	62,	1.2568	,11:19:44	,28-Aug-2012
57,	17.1,	24.5,	62,	1.2394	,11:23:44	,28-Aug-2012
58,	18.0,	24.6,	62,	1.3097	,11:27:44	,28-Aug-2012
59,	17.7,	24.6,	62,	1.3956	,11:31:44	,28-Aug-2012
60,	18.7,	24.6,	62,	1.2844	,11:35:44	,28-Aug-2012
61,	18.4,	24.7,	61,	1.6031	,11:39:44	,28-Aug-2012
62,	17.4,	24.7,	61,	1.4011	,11:43:44	,28-Aug-2012
63,	19.9,	24.8,	60,	1.5164	,11:47:44	,28-Aug-2012
64,	25.3,	24.9,	60,	2.0167	,11:51:44	,28-Aug-2012
65,	22.6,	25.0,	60,	1.6389	,11:55:44	,28-Aug-2012
66,	23.5,	25.0,	60,	2.1808	,11:59:44	,28-Aug-2012
67,	21.5,	25.1,	59,	1.8998	,12:03:44	,28-Aug-2012
68,	32.1,	25.2,	59,	2.8072	,12:07:44	,28-Aug-2012
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70,	23.1,	25.3,	59,	1.6333	,12:15:44	,28-Aug-2012
71,	21.1,	25.4,	59,	1.3042	,12:19:44	,28-Aug-2012
72,	19.0,	25.5,	59,	1.5167	,12:23:44	,28-Aug-2012
73,	19.9,	25.6,	59,	1.3402	,12:27:44	,28-Aug-2012
74,	18.5,	25.6,	58,	1.1840	,12:31:44	,28-Aug-2012
75,	19.3,	25.6,	58,	1.3132	,12:35:44	,28-Aug-2012
76,	22.6,	25.7,	57,	1.2021	,12:39:44	,28-Aug-2012
77,	25.7,	25.8,	57,	1.2442	,12:43:44	,28-Aug-2012
78,	24.7,	25.8,	57,	1.1700	,12:47:44	,28-Aug-2012
79,	27.7,	25.9,	57,	1.1556	,12:51:44	,28-Aug-2012
80,	30.6,	25.9,	57,	1.3365	,12:55:44	,28-Aug-2012
81,	28.4,	25.9,	57,	1.1807	,12:59:44	,28-Aug-2012
82,	26.7,	25.9,	56,	1.1688	,13:03:44	,28-Aug-2012
83,	31.4,	25.9,	56,	1.3008	,13:07:44	,28-Aug-2012
84,	27.3,	26.0,	55,	1.1516	,13:11:44	,28-Aug-2012
85,	28.0,	26.0,	55,	1.1146	,13:15:44	,28-Aug-2012
86,	23.8,	26.0,	55,	1.2177	,13:19:44	,28-Aug-2012
87,	32.1,	26.0,	54,	1.9795	,13:23:44	,28-Aug-2012
88,	23.8,	26.0,	54,	1.1339	,13:27:44	,28-Aug-2012
89,	27.0,	26.1,	54,	1.6173	,13:31:44	,28-Aug-2012
90,	23.7,	26.1,	54,	1.2997	,13:35:44	,28-Aug-2012
91,	24.3,	26.1,	53,	1.1983	,13:39:44	,28-Aug-2012
92,	24.3,	26.2,	53,	1.2508	,13:43:44	,28-Aug-2012
93,	25.2,	26.3,	53,	1.2895	,13:47:44	,28-Aug-2012
94,	22.7,	26.3,	53,	1.1123	,13:51:44	,28-Aug-2012
95,	23.4,	26.4,	53,	1.2561	,13:55:44	,28-Aug-2012
96,	22.6,	26.5,	53,	1.2317	,13:59:44	,28-Aug-2012
97,	25.9,	26.5,	53,	1.9750	,14:03:44	,28-Aug-2012
98,	20.8,	26.6,	52,	1.4778	,14:07:44	,28-Aug-2012
99,	21.0,	26.6,	52,	1.3651	,14:11:44	,28-Aug-2012
100,	22.5,	26.7,	52,	1.3895	,14:15:44	,28-Aug-2012
101,	21.3,	26.7,	52,	1.3354	,14:19:44	,28-Aug-2012
102,	20.3,	26.8,	52,	1.1784	,14:23:44	,28-Aug-2012
103,	20.4,	26.9,	51,	1.2872	,14:27:44	,28-Aug-2012
104,	23.5,	27.0,	51,	1.3121	,14:31:44	,28-Aug-2012
105,	19.9,	27.1,	50,	1.4575	,14:35:44	,28-Aug-2012
106,	19.1,	27.1,	50,	1.4828	,14:39:44	,28-Aug-2012
107,	20.2,	27.2,	49,	1.4669	,14:43:44	,28-Aug-2012
108,	20.1,	27.3,	49,	1.5834	,14:47:44	,28-Aug-2012
109,	19.8,	27.4,	49,	1.6660	,14:51:44	,28-Aug-2012

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110,        17.6,  27.5,   48,   1.3219  ,14:55:44  ,28-Aug-2012
111,        16.2,  27.6,   47,   1.3804  ,14:59:44  ,28-Aug-2012
```

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/29/2012

CLIENT: NL Industries

WEATHER: 90° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

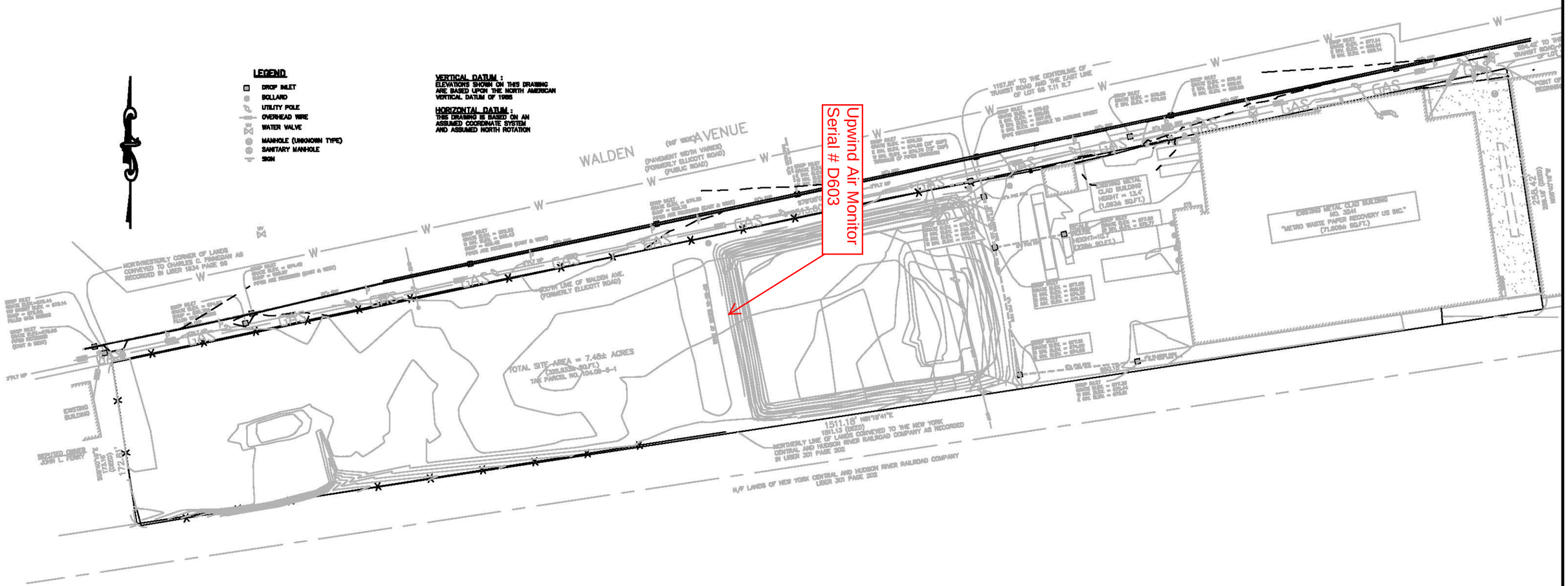
PROGRESS OF WORK:

ERI began excavation from approximately 20 feet east of the truck exit driveway of the cascades building to the truck exit driveway. Approximately 2 inches of material was removed from along the curb and spread in the ROW in the same area. The material was graded so that sheet flow to the street was maintained. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and driveway. ERI began placing topsoil on the pavers installed on August 28. The 20 foot sections were cut in the pavers before topsoil was placed. The stone aprons were placed along the edges of the eastern most driveway.

AGC performed air monitoring during excavation and soil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.

NYSDOT was onsite briefly.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

Downwind Air Monitor
Serial # D451

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ADVANCED GeoServices Engineering P.C.
Engineering for the Environment. Planning for People.™
1055 ANDREW DRIVE, SUITE A, WEST CHESTER PA, 19380
tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 3
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"Start Date ", 29-Aug-2012
"Log Period ", 00:04:00
"Number   ", 110
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 32.032620
"Max MASS @ ", 100 ,14:10:05 ,29-Aug-2012
"Avg MASS   ", 5.571112
"Max Diam   ", 3.968345
"Max Diam @ ", 17 ,08:38:05 ,29-Aug-2012
"Avg Diam   ", 1.226621
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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2,	14.1,	14.3,	54,	2.7463	,07:38:05	,29-Aug-2012
3,	15.1,	14.4,	59,	2.9965	,07:42:05	,29-Aug-2012
4,	13.6,	14.4,	62,	3.1637	,07:46:05	,29-Aug-2012
5,	14.3,	14.5,	64,	3.0882	,07:50:05	,29-Aug-2012
6,	15.0,	14.6,	65,	3.8954	,07:54:05	,29-Aug-2012
7,	11.1,	14.7,	67,	2.7595	,07:58:05	,29-Aug-2012
8,	14.0,	14.9,	67,	3.8282	,08:02:05	,29-Aug-2012
9,	12.6,	15.1,	68,	3.4675	,08:06:05	,29-Aug-2012
10,	11.2,	15.4,	69,	2.4347	,08:10:05	,29-Aug-2012
11,	10.3,	15.6,	69,	2.4806	,08:14:05	,29-Aug-2012
12,	10.5,	15.9,	69,	2.7699	,08:18:05	,29-Aug-2012
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14,	11.8,	16.6,	69,	3.2997	,08:26:05	,29-Aug-2012
15,	12.6,	17.0,	69,	3.8904	,08:30:05	,29-Aug-2012
16,	11.8,	17.4,	69,	3.0133	,08:34:05	,29-Aug-2012
17,	12.8,	17.9,	68,	3.9683	,08:38:05	,29-Aug-2012
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20,	10.3,	19.2,	65,	3.1788	,08:50:05	,29-Aug-2012
21,	8.0,	19.7,	64,	2.9870	,08:54:05	,29-Aug-2012
22,	10.1,	20.1,	63,	2.9528	,08:58:05	,29-Aug-2012
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25,	8.6,	21.3,	59,	2.9917	,09:10:05	,29-Aug-2012
26,	8.2,	21.7,	58,	2.8444	,09:14:05	,29-Aug-2012
27,	5.5,	22.1,	56,	1.5589	,09:18:05	,29-Aug-2012
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32,	2.3,	23.7,	48,	0.6551	,09:38:05	,29-Aug-2012
33,	2.2,	24.0,	47,	0.5099	,09:42:05	,29-Aug-2012
34,	2.3,	24.3,	46,	0.5882	,09:46:05	,29-Aug-2012
35,	2.7,	24.6,	45,	0.6176	,09:50:05	,29-Aug-2012
36,	2.7,	24.8,	44,	0.5078	,09:54:05	,29-Aug-2012
37,	3.7,	25.0,	43,	1.0281	,09:58:05	,29-Aug-2012
38,	2.8,	25.3,	43,	0.6458	,10:02:05	,29-Aug-2012
39,	2.1,	25.6,	42,	0.5232	,10:06:05	,29-Aug-2012
40,	2.5,	25.8,	41,	0.5984	,10:10:05	,29-Aug-2012
41,	2.1,	26.0,	41,	0.5373	,10:14:05	,29-Aug-2012
42,	2.1,	26.2,	40,	0.4991	,10:18:05	,29-Aug-2012

43,	2.2,	26.4,	39,	0.5051	,10:22:05	,29-Aug-2012
44,	2.3,	26.5,	39,	0.4907	,10:26:05	,29-Aug-2012
45,	2.5,	26.7,	38,	0.5625	,10:30:05	,29-Aug-2012
46,	2.2,	26.9,	38,	0.6703	,10:34:05	,29-Aug-2012
47,	3.0,	27.1,	37,	0.5950	,10:38:05	,29-Aug-2012
48,	2.6,	27.3,	37,	0.4811	,10:42:05	,29-Aug-2012
49,	1.9,	27.5,	36,	0.4520	,10:46:05	,29-Aug-2012
50,	2.1,	27.6,	35,	0.4905	,10:50:05	,29-Aug-2012
51,	2.5,	27.7,	35,	0.5655	,10:54:05	,29-Aug-2012
52,	2.3,	27.8,	34,	0.4831	,10:58:05	,29-Aug-2012
53,	2.4,	28.0,	34,	0.6186	,11:02:05	,29-Aug-2012
54,	2.5,	28.0,	34,	0.6790	,11:06:05	,29-Aug-2012
55,	3.7,	28.1,	33,	0.7471	,11:10:05	,29-Aug-2012
56,	3.1,	28.2,	33,	0.4689	,11:14:05	,29-Aug-2012
57,	2.4,	28.3,	33,	0.5616	,11:18:05	,29-Aug-2012
58,	2.5,	28.5,	32,	0.5672	,11:22:05	,29-Aug-2012
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61,	2.3,	29.1,	32,	0.4517	,11:34:05	,29-Aug-2012
62,	2.3,	29.3,	32,	0.4397	,11:38:05	,29-Aug-2012
63,	3.0,	29.6,	31,	0.5894	,11:42:05	,29-Aug-2012
64,	2.8,	29.9,	31,	0.5675	,11:46:05	,29-Aug-2012
65,	2.2,	30.2,	31,	0.4510	,11:50:05	,29-Aug-2012
66,	1.9,	30.4,	31,	0.4477	,11:54:05	,29-Aug-2012
67,	2.6,	30.6,	30,	0.4702	,11:58:05	,29-Aug-2012
68,	2.3,	30.9,	30,	0.4478	,12:02:05	,29-Aug-2012
69,	2.5,	31.0,	29,	0.4291	,12:06:05	,29-Aug-2012
70,	2.4,	31.2,	29,	0.5206	,12:10:05	,29-Aug-2012
71,	2.8,	31.4,	29,	0.5631	,12:14:05	,29-Aug-2012
72,	2.4,	31.6,	28,	0.4741	,12:18:05	,29-Aug-2012
73,	2.6,	31.8,	28,	0.5529	,12:22:05	,29-Aug-2012
74,	1.8,	32.0,	28,	0.3965	,12:26:05	,29-Aug-2012
75,	2.0,	32.2,	28,	0.4224	,12:30:05	,29-Aug-2012
76,	1.9,	32.5,	27,	0.4206	,12:34:05	,29-Aug-2012
77,	1.9,	32.7,	27,	0.4367	,12:38:05	,29-Aug-2012
78,	15.5,	33.0,	27,	1.4849	,12:42:05	,29-Aug-2012
79,	14.4,	33.1,	26,	2.2280	,12:46:05	,29-Aug-2012
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81,	2.9,	33.3,	26,	0.5373	,12:54:05	,29-Aug-2012
82,	2.1,	33.3,	25,	0.4667	,12:58:05	,29-Aug-2012
83,	2.2,	33.5,	25,	0.4985	,13:02:05	,29-Aug-2012
84,	3.2,	33.6,	25,	0.5465	,13:06:05	,29-Aug-2012
85,	2.4,	33.7,	25,	0.4664	,13:10:05	,29-Aug-2012
86,	2.0,	33.7,	25,	0.4454	,13:14:05	,29-Aug-2012
87,	2.3,	33.7,	25,	0.4563	,13:18:05	,29-Aug-2012
88,	2.2,	33.8,	24,	0.4771	,13:22:05	,29-Aug-2012
89,	2.5,	33.8,	24,	0.4954	,13:26:05	,29-Aug-2012
90,	2.0,	33.9,	24,	0.4632	,13:30:05	,29-Aug-2012
91,	1.9,	34.0,	24,	0.4875	,13:34:05	,29-Aug-2012
92,	3.3,	34.1,	24,	0.7321	,13:38:05	,29-Aug-2012
93,	2.1,	34.3,	24,	0.4992	,13:42:05	,29-Aug-2012
94,	3.4,	34.5,	24,	0.7982	,13:46:05	,29-Aug-2012
95,	2.7,	34.7,	23,	0.5725	,13:50:05	,29-Aug-2012
96,	9.3,	34.8,	23,	1.4395	,13:54:05	,29-Aug-2012
97,	17.9,	35.0,	23,	1.6946	,13:58:05	,29-Aug-2012
98,	8.3,	35.1,	22,	1.2331	,14:02:05	,29-Aug-2012
99,	12.2,	35.1,	22,	1.6203	,14:06:05	,29-Aug-2012
100,	32.0,	35.0,	22,	2.0689	,14:10:05	,29-Aug-2012
101,	2.3,	35.0,	22,	0.5525	,14:14:05	,29-Aug-2012
102,	2.4,	35.1,	22,	0.4573	,14:18:05	,29-Aug-2012
103,	2.9,	35.1,	22,	0.4549	,14:22:05	,29-Aug-2012
104,	2.2,	35.1,	22,	0.4096	,14:26:05	,29-Aug-2012
105,	2.5,	35.1,	22,	0.4521	,14:30:05	,29-Aug-2012
106,	4.7,	35.1,	22,	0.5322	,14:34:05	,29-Aug-2012
107,	6.3,	35.1,	22,	1.0673	,14:38:05	,29-Aug-2012
108,	4.0,	35.2,	22,	0.9544	,14:42:05	,29-Aug-2012
109,	3.2,	35.2,	22,	0.7593	,14:46:05	,29-Aug-2012

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110,         2.5,  35.4,   22,   0.5391  ,14:50:05  ,29-Aug-2012
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"Start Date ", 29-Aug-2012
"Log Period ", 00:04:00
"Number   ", 81
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
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"TEMPUNITS   ", C
"Max MASS   ", 55.675120
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"Avg MASS   ", 6.783156
"Max Diam   ", 2.717559
"Max Diam @ ", 32 ,11:26:53 ,29-Aug-2012
"Avg Diam   ", 1.295026
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"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
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"Errors   ", 0000

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4,	3.5,	15.5,	57,	0.9993	,09:34:53	,29-Aug-2012
5,	3.9,	15.7,	58,	0.7754	,09:38:53	,29-Aug-2012
6,	4.7,	15.8,	58,	1.2878	,09:42:53	,29-Aug-2012
7,	4.2,	16.0,	58,	1.2794	,09:46:53	,29-Aug-2012
8,	4.0,	16.2,	57,	0.9695	,09:50:53	,29-Aug-2012
9,	6.4,	16.4,	57,	1.9195	,09:54:53	,29-Aug-2012
10,	6.4,	16.5,	57,	2.0515	,09:58:53	,29-Aug-2012
11,	4.4,	16.7,	57,	0.9031	,10:02:53	,29-Aug-2012
12,	4.0,	16.9,	56,	1.1923	,10:06:53	,29-Aug-2012
13,	4.0,	17.0,	56,	0.9840	,10:10:53	,29-Aug-2012
14,	4.9,	17.2,	55,	1.3642	,10:14:53	,29-Aug-2012
15,	4.9,	17.3,	55,	1.1653	,10:18:53	,29-Aug-2012
16,	5.7,	17.5,	54,	1.0707	,10:22:53	,29-Aug-2012
17,	4.9,	17.6,	54,	1.3087	,10:26:53	,29-Aug-2012
18,	3.3,	17.8,	54,	0.8291	,10:30:53	,29-Aug-2012
19,	4.2,	17.9,	53,	0.9050	,10:34:53	,29-Aug-2012
20,	5.0,	18.1,	53,	2.0415	,10:38:53	,29-Aug-2012
21,	6.7,	18.2,	52,	2.0210	,10:42:53	,29-Aug-2012
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23,	5.5,	18.5,	51,	1.6295	,10:50:53	,29-Aug-2012
24,	4.0,	18.6,	50,	0.8622	,10:54:53	,29-Aug-2012
25,	4.0,	18.7,	49,	1.1790	,10:58:53	,29-Aug-2012
26,	7.8,	18.9,	49,	2.4706	,11:02:53	,29-Aug-2012
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28,	4.9,	19.1,	48,	0.9880	,11:10:53	,29-Aug-2012
29,	6.7,	19.3,	48,	1.4079	,11:14:53	,29-Aug-2012
30,	6.0,	19.5,	47,	1.6690	,11:18:53	,29-Aug-2012
31,	11.7,	19.6,	46,	1.6384	,11:22:53	,29-Aug-2012
32,	28.3,	19.8,	46,	2.7176	,11:26:53	,29-Aug-2012
33,	4.6,	20.0,	45,	1.6920	,11:30:53	,29-Aug-2012
34,	5.6,	20.2,	45,	1.3999	,11:34:53	,29-Aug-2012
35,	6.8,	20.4,	45,	2.1458	,11:38:53	,29-Aug-2012
36,	4.2,	20.7,	45,	0.9281	,11:42:53	,29-Aug-2012
37,	5.3,	21.1,	44,	1.4128	,11:46:53	,29-Aug-2012
38,	4.5,	21.4,	43,	1.6715	,11:50:53	,29-Aug-2012
39,	9.7,	21.8,	43,	2.6236	,11:54:53	,29-Aug-2012
40,	4.9,	22.2,	42,	1.3864	,11:58:53	,29-Aug-2012
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42,	9.3,	23.0,	40,	1.5751	,12:06:53	,29-Aug-2012

43,	3.2,	23.4,	39,	0.7823	,12:10:53	,29-Aug-2012
44,	4.2,	23.7,	38,	1.3621	,12:14:53	,29-Aug-2012
45,	4.5,	24.1,	38,	1.1814	,12:18:53	,29-Aug-2012
46,	3.3,	24.3,	37,	0.6448	,12:22:53	,29-Aug-2012
47,	4.6,	24.6,	37,	0.9088	,12:26:53	,29-Aug-2012
48,	5.2,	24.9,	36,	1.4067	,12:30:53	,29-Aug-2012
49,	3.2,	25.1,	36,	0.8422	,12:34:53	,29-Aug-2012
50,	18.6,	25.4,	35,	1.4585	,12:38:53	,29-Aug-2012
51,	15.5,	25.6,	34,	1.8657	,12:42:53	,29-Aug-2012
52,	5.6,	25.8,	34,	1.7433	,12:46:53	,29-Aug-2012
53,	8.0,	26.1,	33,	1.9394	,12:50:53	,29-Aug-2012
54,	28.6,	26.4,	33,	1.4450	,12:54:53	,29-Aug-2012
55,	3.4,	26.7,	32,	0.9529	,12:58:53	,29-Aug-2012
56,	13.6,	27.0,	32,	1.2187	,13:02:53	,29-Aug-2012
57,	5.1,	27.3,	31,	1.4425	,13:06:53	,29-Aug-2012
58,	4.0,	27.5,	31,	1.1692	,13:10:53	,29-Aug-2012
59,	3.6,	27.7,	30,	0.8370	,13:14:53	,29-Aug-2012
60,	13.4,	27.9,	30,	2.3151	,13:18:53	,29-Aug-2012
61,	15.7,	28.1,	30,	1.7246	,13:22:53	,29-Aug-2012
62,	4.2,	28.2,	29,	1.2912	,13:26:53	,29-Aug-2012
63,	3.0,	28.3,	29,	1.1472	,13:30:53	,29-Aug-2012
64,	22.0,	28.5,	28,	2.2918	,13:34:53	,29-Aug-2012
65,	8.1,	28.7,	28,	1.7592	,13:38:53	,29-Aug-2012
66,	6.5,	29.2,	28,	1.7248	,13:42:53	,29-Aug-2012
67,	6.8,	29.7,	28,	1.8676	,13:46:53	,29-Aug-2012
68,	5.1,	29.8,	28,	0.9655	,13:50:53	,29-Aug-2012
69,	1.7,	29.6,	27,	0.4816	,13:54:53	,29-Aug-2012
70,	3.1,	29.8,	26,	0.9193	,13:58:53	,29-Aug-2012
71,	3.2,	29.8,	26,	0.9469	,14:02:53	,29-Aug-2012
72,	1.9,	30.1,	26,	0.5760	,14:06:53	,29-Aug-2012
73,	2.8,	30.3,	25,	0.7725	,14:10:53	,29-Aug-2012
74,	1.4,	30.4,	25,	0.5137	,14:14:53	,29-Aug-2012
75,	1.8,	30.8,	25,	0.5964	,14:18:53	,29-Aug-2012
76,	1.8,	31.3,	25,	0.5793	,14:22:53	,29-Aug-2012
77,	2.2,	31.2,	25,	0.6927	,14:26:53	,29-Aug-2012
78,	2.0,	31.5,	25,	0.6244	,14:30:53	,29-Aug-2012
79,	55.7,	31.5,	24,	1.0641	,14:34:53	,29-Aug-2012
80,	3.0,	31.9,	24,	1.0503	,14:38:53	,29-Aug-2012
81,	2.1,	32.0,	24,	0.6026	,14:42:53	,29-Aug-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/30/2012

CLIENT: NL Industries

WEATHER: 80° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

PROGRESS OF WORK:

Lane closure on Walden Ave. was delayed due to a disabled truck in the west bound lane. The west bound lane was closed and traffic in the east bound lanes was diverted to the lane immediately adjacent to the right of way. The lane closure in the adjacent lane was resumed at 9:00 AM.

ERI completed excavation from approximately 20 feet east of the truck exit driveway of the cascades building to the truck exit driveway. ERI began excavation of the small area between the truck entrances. Approximately 2 inches of material was removed from along the curb and driveways and stockpiled to the west of the truck entrance. The stockpile was covered with Synteen SR 18 and a silt sock was placed around the bottom. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and driveway. ERI completed placing pavers and topsoil on the area to the east of the truck entrances. The 20 foot sections were cut in the pavers before topsoil was placed. The stone aprons were placed along the edges of the driveways.

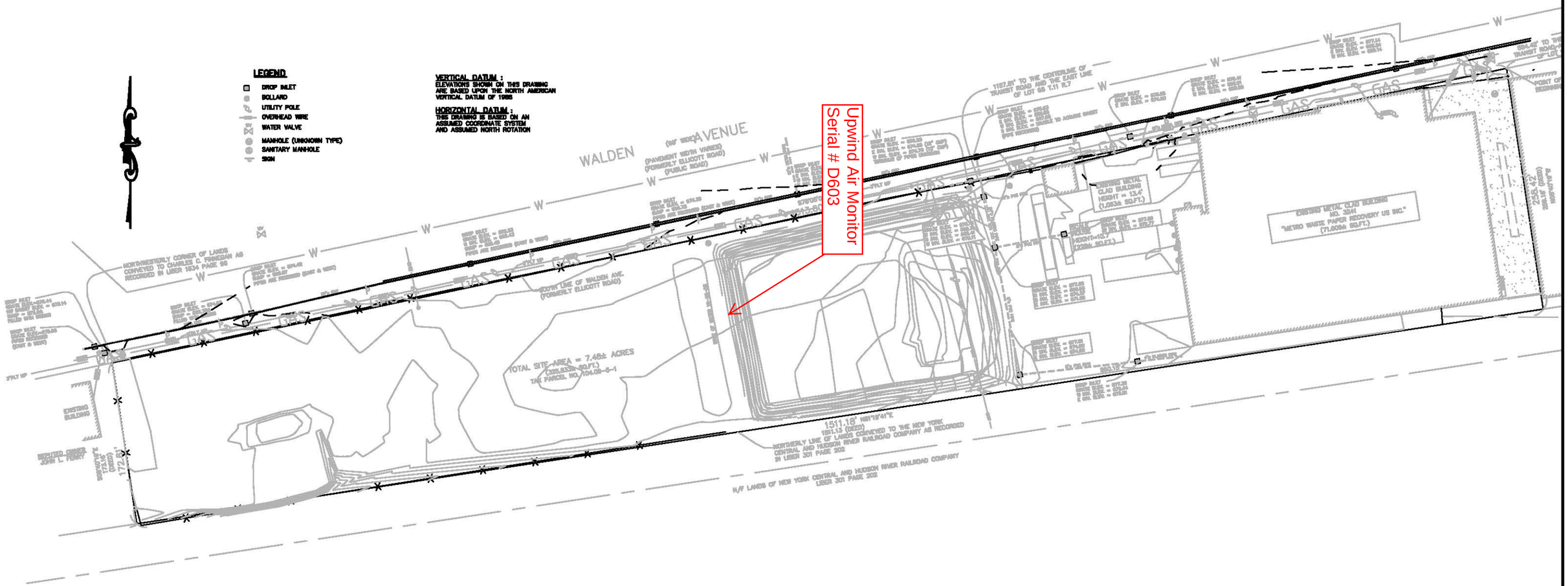
AGC performed air monitoring during excavation and soil moving activities. Two exceedences to the action limit were observed. It was noted that this was due to high winds during topsoil placement. The contractor was notified and corrective actions were taken. The contractor stated

Field Representative: David Benson

that the topsoil was extremely dry, and screened so as placement was difficult. Air monitoring data is attached to this report.

NYSDEC was onsite briefly.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

Downwind Air Monitor
Serial # D451

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ADVANCED GeoServices Engineering P.C.
Engineering for the Environment. Planning for People.™
1055 ANDREW DRIVE, SUITE A, WEST CHESTER PA, 19380
tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 3
"Start Time ", 08:47:10
"Start Date ", 30-Aug-2012
"Log Period ", 00:04:00
"Number   ", 84
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 15.407090
"Max MASS @ ", 78 ,13:59:10 ,30-Aug-2012
"Avg MASS   ", 6.872792
"Max Diam   ", 3.666497
"Max Diam @ ", 84 ,14:23:10 ,30-Aug-2012
"Avg Diam   ", 1.109835
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	10.3,	19.4,	34,	1.4817	,08:51:10 ,30-Aug-2012
2,	8.0,	19.5,	44,	1.1236	,08:55:10 ,30-Aug-2012
3,	8.1,	19.6,	49,	1.2168	,08:59:10 ,30-Aug-2012
4,	8.2,	19.8,	52,	1.9133	,09:03:10 ,30-Aug-2012
5,	7.4,	20.0,	55,	1.2517	,09:07:10 ,30-Aug-2012
6,	8.1,	20.2,	56,	1.6849	,09:11:10 ,30-Aug-2012
7,	7.7,	20.5,	58,	1.3741	,09:15:10 ,30-Aug-2012
8,	7.8,	20.8,	58,	1.3659	,09:19:10 ,30-Aug-2012
9,	7.6,	21.1,	59,	1.1926	,09:23:10 ,30-Aug-2012
10,	7.5,	21.4,	59,	1.4506	,09:27:10 ,30-Aug-2012
11,	7.9,	21.7,	59,	1.4063	,09:31:10 ,30-Aug-2012
12,	7.6,	22.0,	60,	1.5689	,09:35:10 ,30-Aug-2012
13,	7.1,	22.3,	60,	1.2505	,09:39:10 ,30-Aug-2012
14,	8.4,	22.6,	59,	2.3069	,09:43:10 ,30-Aug-2012
15,	8.4,	23.0,	59,	1.7167	,09:47:10 ,30-Aug-2012
16,	7.9,	23.2,	59,	1.5310	,09:51:10 ,30-Aug-2012
17,	6.7,	23.5,	59,	0.9648	,09:55:10 ,30-Aug-2012
18,	7.7,	23.8,	59,	1.2073	,09:59:10 ,30-Aug-2012
19,	7.1,	24.1,	59,	1.3496	,10:03:10 ,30-Aug-2012
20,	6.9,	24.4,	59,	1.4199	,10:07:10 ,30-Aug-2012
21,	5.6,	24.7,	58,	0.7103	,10:11:10 ,30-Aug-2012
22,	5.4,	24.9,	58,	0.7651	,10:15:10 ,30-Aug-2012
23,	6.0,	25.2,	58,	0.7722	,10:19:10 ,30-Aug-2012
24,	6.5,	25.4,	58,	1.0762	,10:23:10 ,30-Aug-2012
25,	7.3,	25.6,	57,	1.4042	,10:27:10 ,30-Aug-2012
26,	6.5,	25.9,	57,	1.1619	,10:31:10 ,30-Aug-2012
27,	5.9,	26.2,	56,	1.1425	,10:35:10 ,30-Aug-2012
28,	5.8,	26.4,	56,	0.8814	,10:39:10 ,30-Aug-2012
29,	5.1,	26.6,	55,	0.6143	,10:43:10 ,30-Aug-2012
30,	6.4,	26.9,	55,	0.9865	,10:47:10 ,30-Aug-2012
31,	5.1,	27.1,	54,	0.5788	,10:51:10 ,30-Aug-2012
32,	6.1,	27.3,	54,	0.8231	,10:55:10 ,30-Aug-2012
33,	7.0,	27.5,	53,	1.0702	,10:59:10 ,30-Aug-2012
34,	7.1,	27.7,	52,	1.0280	,11:03:10 ,30-Aug-2012
35,	6.7,	27.9,	52,	1.1426	,11:07:10 ,30-Aug-2012
36,	5.3,	28.0,	52,	0.6354	,11:11:10 ,30-Aug-2012
37,	5.8,	28.2,	51,	0.6784	,11:15:10 ,30-Aug-2012
38,	6.9,	28.3,	51,	1.0570	,11:19:10 ,30-Aug-2012
39,	5.5,	28.5,	50,	0.6865	,11:23:10 ,30-Aug-2012
40,	6.6,	28.6,	50,	0.8168	,11:27:10 ,30-Aug-2012
41,	5.2,	28.6,	50,	0.5802	,11:31:10 ,30-Aug-2012
42,	6.5,	28.7,	49,	0.8200	,11:35:10 ,30-Aug-2012

43,	8.1,	28.8,	49,	1.8906	,11:39:10	,30-Aug-2012
44,	6.0,	28.9,	49,	0.8045	,11:43:10	,30-Aug-2012
45,	6.5,	29.0,	49,	0.7239	,11:47:10	,30-Aug-2012
46,	5.3,	29.0,	49,	0.6562	,11:51:10	,30-Aug-2012
47,	5.6,	29.1,	49,	0.6202	,11:55:10	,30-Aug-2012
48,	7.2,	29.3,	49,	0.9130	,11:59:10	,30-Aug-2012
49,	6.8,	29.4,	48,	0.9734	,12:03:10	,30-Aug-2012
50,	6.3,	29.5,	48,	0.7221	,12:07:10	,30-Aug-2012
51,	6.0,	29.6,	48,	0.6437	,12:11:10	,30-Aug-2012
52,	8.3,	29.8,	48,	1.1883	,12:15:10	,30-Aug-2012
53,	4.8,	29.9,	47,	0.5393	,12:19:10	,30-Aug-2012
54,	4.8,	30.1,	47,	0.5311	,12:23:10	,30-Aug-2012
55,	4.5,	30.2,	47,	0.5054	,12:27:10	,30-Aug-2012
56,	9.4,	30.3,	47,	1.1020	,12:31:10	,30-Aug-2012
57,	4.6,	30.5,	46,	0.5339	,12:35:10	,30-Aug-2012
58,	5.5,	30.7,	46,	0.7779	,12:39:10	,30-Aug-2012
59,	4.8,	30.8,	46,	0.5717	,12:43:10	,30-Aug-2012
60,	5.3,	31.0,	45,	0.5916	,12:47:10	,30-Aug-2012
61,	5.4,	31.1,	45,	0.6339	,12:51:10	,30-Aug-2012
62,	5.6,	31.3,	45,	0.7277	,12:55:10	,30-Aug-2012
63,	5.4,	31.5,	44,	0.6850	,12:59:10	,30-Aug-2012
64,	9.6,	31.6,	44,	1.2997	,13:03:10	,30-Aug-2012
65,	6.4,	31.8,	43,	0.6695	,13:07:10	,30-Aug-2012
66,	4.6,	32.0,	42,	0.5195	,13:11:10	,30-Aug-2012
67,	5.4,	32.1,	41,	0.6489	,13:15:10	,30-Aug-2012
68,	7.4,	32.3,	41,	1.5766	,13:19:10	,30-Aug-2012
69,	4.6,	32.5,	41,	0.4851	,13:23:10	,30-Aug-2012
70,	5.0,	32.6,	40,	0.5633	,13:27:10	,30-Aug-2012
71,	6.3,	32.7,	40,	1.0527	,13:31:10	,30-Aug-2012
72,	7.0,	32.8,	39,	1.2008	,13:35:10	,30-Aug-2012
73,	5.5,	32.9,	38,	0.5990	,13:39:10	,30-Aug-2012
74,	6.7,	33.0,	38,	1.1185	,13:43:10	,30-Aug-2012
75,	7.5,	33.0,	38,	1.2815	,13:47:10	,30-Aug-2012
76,	5.8,	33.1,	37,	0.8388	,13:51:10	,30-Aug-2012
77,	7.0,	33.2,	37,	1.4050	,13:55:10	,30-Aug-2012
78,	15.4,	33.2,	37,	2.9488	,13:59:10	,30-Aug-2012
79,	9.6,	33.4,	37,	2.4026	,14:03:10	,30-Aug-2012
80,	8.8,	33.4,	37,	1.1545	,14:07:10	,30-Aug-2012
81,	6.5,	33.5,	37,	0.8742	,14:11:10	,30-Aug-2012
82,	7.6,	33.6,	37,	1.2557	,14:15:10	,30-Aug-2012
83,	11.8,	33.6,	36,	3.1206	,14:19:10	,30-Aug-2012
84,	12.3,	33.7,	36,	3.6665	,14:23:10	,30-Aug-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 08:52:47
"Start Date ", 30-Aug-2012
"Log Period ", 00:04:00
"Number   ", 82
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 105.332200
"Max MASS @ ", 63 ,13:04:47 ,30-Aug-2012
"Avg MASS   ", 22.230310
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,09:00:47 ,30-Aug-2012
"Avg Diam   ", 3.518182
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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1,	23.0,	18.2,	34,	3.5901	,08:56:47	,30-Aug-2012
2,	28.0,	18.3,	44,	4.1270	,09:00:47	,30-Aug-2012
3,	23.4,	18.3,	49,	4.1270	,09:04:47	,30-Aug-2012
4,	32.4,	18.4,	52,	4.1270	,09:08:47	,30-Aug-2012
5,	23.4,	18.5,	54,	4.1270	,09:12:47	,30-Aug-2012
6,	27.2,	18.6,	56,	4.1204	,09:16:47	,30-Aug-2012
7,	27.9,	18.6,	57,	4.0891	,09:20:47	,30-Aug-2012
8,	28.8,	18.7,	58,	4.1270	,09:24:47	,30-Aug-2012
9,	33.1,	18.8,	59,	4.1270	,09:28:47	,30-Aug-2012
10,	31.6,	18.9,	60,	4.1270	,09:32:47	,30-Aug-2012
11,	32.8,	19.0,	61,	4.1270	,09:36:47	,30-Aug-2012
12,	16.5,	19.1,	62,	3.4813	,09:40:47	,30-Aug-2012
13,	11.8,	19.1,	62,	3.1346	,09:44:47	,30-Aug-2012
14,	18.4,	19.2,	63,	3.7473	,09:48:47	,30-Aug-2012
15,	16.5,	19.3,	63,	3.7605	,09:52:47	,30-Aug-2012
16,	15.9,	19.5,	64,	4.0562	,09:56:47	,30-Aug-2012
17,	30.6,	19.6,	65,	2.8199	,10:00:47	,30-Aug-2012
18,	25.3,	19.7,	65,	3.9369	,10:04:47	,30-Aug-2012
19,	15.7,	19.8,	66,	3.9144	,10:08:47	,30-Aug-2012
20,	14.6,	19.9,	66,	3.9309	,10:12:47	,30-Aug-2012
21,	19.2,	20.1,	66,	4.0785	,10:16:47	,30-Aug-2012
22,	14.3,	20.2,	67,	3.7510	,10:20:47	,30-Aug-2012
23,	17.0,	20.3,	67,	3.8207	,10:24:47	,30-Aug-2012
24,	25.7,	20.4,	67,	4.1270	,10:28:47	,30-Aug-2012
25,	16.6,	20.6,	67,	3.8508	,10:32:47	,30-Aug-2012
26,	10.5,	20.7,	67,	2.5740	,10:36:47	,30-Aug-2012
27,	12.0,	20.8,	67,	2.9881	,10:40:47	,30-Aug-2012
28,	12.0,	21.0,	66,	3.1787	,10:44:47	,30-Aug-2012
29,	13.2,	21.1,	66,	2.0422	,10:48:47	,30-Aug-2012
30,	16.3,	21.2,	66,	2.9977	,10:52:47	,30-Aug-2012
31,	19.7,	21.3,	66,	4.1270	,10:56:47	,30-Aug-2012
32,	18.7,	21.5,	66,	4.0725	,11:00:47	,30-Aug-2012
33,	26.4,	21.6,	65,	3.7224	,11:04:47	,30-Aug-2012
34,	39.0,	21.7,	65,	4.0186	,11:08:47	,30-Aug-2012
35,	15.6,	21.8,	65,	3.2842	,11:12:47	,30-Aug-2012
36,	18.7,	22.0,	64,	3.6079	,11:16:47	,30-Aug-2012
37,	16.9,	22.1,	64,	3.7399	,11:20:47	,30-Aug-2012
38,	27.4,	22.2,	64,	3.2099	,11:24:47	,30-Aug-2012
39,	35.6,	22.3,	64,	4.0911	,11:28:47	,30-Aug-2012
40,	20.5,	22.4,	63,	3.9804	,11:32:47	,30-Aug-2012
41,	16.9,	22.5,	63,	4.0359	,11:36:47	,30-Aug-2012
42,	93.4,	22.6,	63,	3.4114	,11:40:47	,30-Aug-2012

43,	14.7,	22.7,	63,	3.6013	,11:44:47	,30-Aug-2012
44,	11.9,	22.8,	63,	2.9134	,11:48:47	,30-Aug-2012
45,	14.5,	22.9,	63,	3.1897	,11:52:47	,30-Aug-2012
46,	28.3,	23.0,	63,	4.0690	,11:56:47	,30-Aug-2012
47,	20.8,	23.1,	63,	4.1189	,12:00:47	,30-Aug-2012
48,	29.3,	23.2,	62,	4.0165	,12:04:47	,30-Aug-2012
49,	18.6,	23.2,	62,	3.9022	,12:08:47	,30-Aug-2012
50,	10.9,	23.3,	62,	2.9363	,12:12:47	,30-Aug-2012
51,	18.4,	23.5,	62,	4.0228	,12:16:47	,30-Aug-2012
52,	13.6,	23.5,	62,	3.6405	,12:20:47	,30-Aug-2012
53,	13.1,	23.6,	61,	3.4081	,12:24:47	,30-Aug-2012
54,	11.7,	23.7,	61,	2.9210	,12:28:47	,30-Aug-2012
55,	12.4,	23.7,	61,	1.9557	,12:32:47	,30-Aug-2012
56,	15.7,	23.8,	61,	3.2938	,12:36:47	,30-Aug-2012
57,	12.4,	23.9,	61,	2.9846	,12:40:47	,30-Aug-2012
58,	16.8,	24.0,	60,	2.8226	,12:44:47	,30-Aug-2012
59,	12.6,	24.1,	60,	3.8119	,12:48:47	,30-Aug-2012
60,	36.4,	24.1,	60,	3.8528	,12:52:47	,30-Aug-2012
61,	14.7,	24.2,	60,	3.6132	,12:56:47	,30-Aug-2012
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63,	105.3,	24.3,	58,	4.0172	,13:04:47	,30-Aug-2012
64,	62.3,	24.4,	58,	4.1270	,13:08:47	,30-Aug-2012
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66,	16.3,	24.5,	57,	2.4603	,13:16:47	,30-Aug-2012
67,	9.6,	24.5,	56,	2.2743	,13:20:47	,30-Aug-2012
68,	14.5,	24.6,	56,	2.5952	,13:24:47	,30-Aug-2012
69,	7.7,	24.7,	55,	1.4318	,13:28:47	,30-Aug-2012
70,	12.5,	24.8,	54,	2.3226	,13:32:47	,30-Aug-2012
71,	24.3,	24.9,	54,	2.8694	,13:36:47	,30-Aug-2012
72,	14.4,	25.0,	53,	2.2713	,13:40:47	,30-Aug-2012
73,	12.1,	25.1,	53,	3.2748	,13:44:47	,30-Aug-2012
74,	19.2,	25.2,	52,	3.8328	,13:48:47	,30-Aug-2012
75,	12.6,	25.4,	51,	3.1999	,13:52:47	,30-Aug-2012
76,	36.4,	25.5,	51,	4.1078	,13:56:47	,30-Aug-2012
77,	15.8,	25.6,	51,	3.9889	,14:00:47	,30-Aug-2012
78,	16.9,	25.7,	51,	3.9930	,14:04:47	,30-Aug-2012
79,	10.8,	25.8,	51,	2.0978	,14:08:47	,30-Aug-2012
80,	33.5,	25.9,	50,	3.5245	,14:12:47	,30-Aug-2012
81,	33.5,	26.0,	50,	3.0513	,14:16:47	,30-Aug-2012
82,	22.9,	26.1,	49,	4.1270	,14:20:47	,30-Aug-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 8/31/2012

CLIENT: NL Industries

WEATHER: 80° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

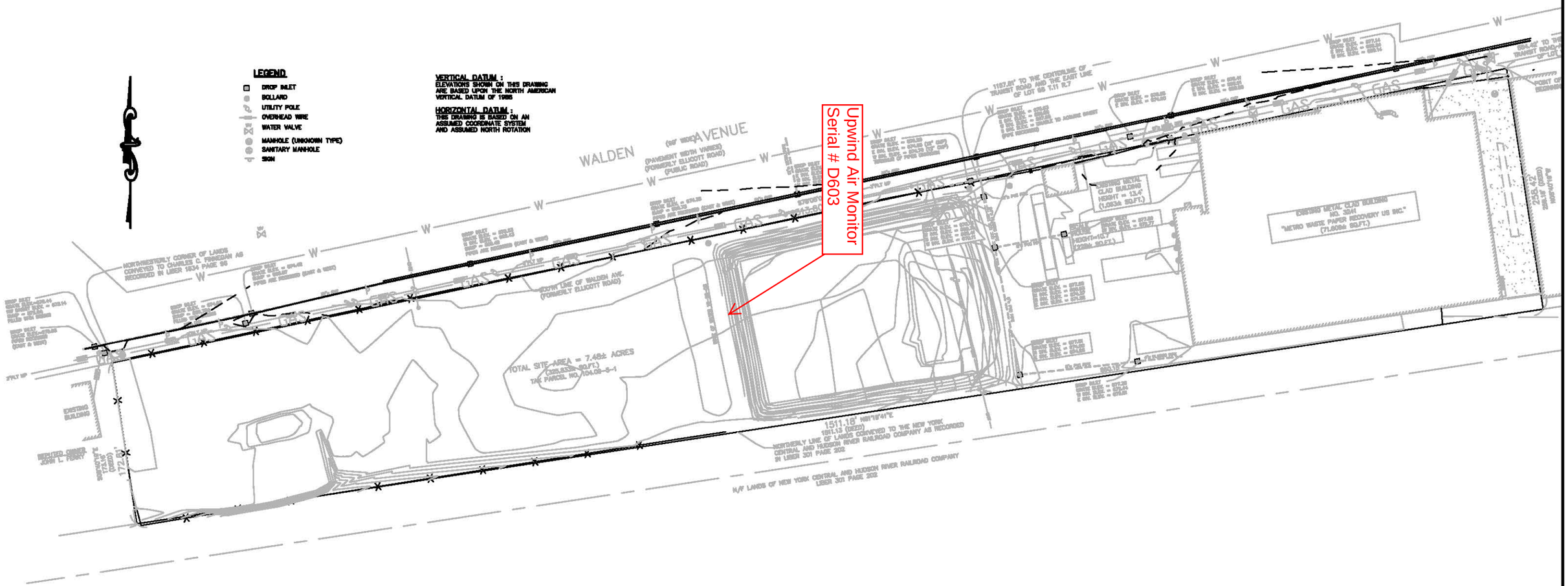
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed excavation of the small area between the truck entrances. Approximately 2 inches of material was removed from along the curb and driveways and stockpiled to the west of the truck entrance. The stockpile was covered with Synteen SR 18 and a silt sock was placed around the bottom. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and driveway. ERI completed placing pavers and topsoil on the area between the truck entrances. The 20 foot sections were cut in the pavers before topsoil was placed. The stone aprons were placed along the edges of the driveways. All areas topsoiled to date were rolled by a drag behind roller and the top portion loosened with a drag behind screen. All areas completed to date were hydro-seeded and erosion control mat was installed.

AGC performed air monitoring during excavation and soil moving activities. No exceedances to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

Downwind Air Monitor
Serial # D451

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE: 1" = 1250'
PROJECT NUMBER: NY02-927
DATE:

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 4
"Start Time ", 07:50:14
"Start Date ", 31-Aug-2012
"Log Period ", 00:04:00
"Number   ", 56
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 20.309850
"Max MASS @ ", 43 ,10:42:14 ,31-Aug-2012
"Avg MASS   ", 13.452740
"Max Diam   ", 2.674055
"Max Diam @ ", 45 ,10:50:14 ,31-Aug-2012
"Avg Diam   ", 1.070298
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	12.7,	20.5,	44,	0.8434	,07:54:14	,31-Aug-2012
2,	11.2,	20.8,	50,	1.0657	,07:58:14	,31-Aug-2012
3,	11.5,	21.1,	53,	0.9111	,08:02:14	,31-Aug-2012
4,	11.2,	21.4,	54,	0.8960	,08:06:14	,31-Aug-2012
5,	12.4,	21.7,	55,	1.0992	,08:10:14	,31-Aug-2012
6,	13.9,	22.0,	56,	1.1032	,08:14:14	,31-Aug-2012
7,	12.8,	22.3,	56,	1.0289	,08:18:14	,31-Aug-2012
8,	11.4,	22.6,	56,	0.9025	,08:22:14	,31-Aug-2012
9,	10.8,	22.8,	56,	0.7931	,08:26:14	,31-Aug-2012
10,	10.7,	23.1,	55,	0.8856	,08:30:14	,31-Aug-2012
11,	11.5,	23.4,	55,	0.8616	,08:34:14	,31-Aug-2012
12,	11.9,	23.7,	54,	1.2442	,08:38:14	,31-Aug-2012
13,	11.0,	24.0,	54,	0.9148	,08:42:14	,31-Aug-2012
14,	10.9,	24.3,	53,	0.7884	,08:46:14	,31-Aug-2012
15,	11.3,	24.5,	53,	0.8989	,08:50:14	,31-Aug-2012
16,	10.7,	24.8,	52,	0.8737	,08:54:14	,31-Aug-2012
17,	10.8,	25.1,	51,	0.7911	,08:58:14	,31-Aug-2012
18,	11.0,	25.4,	51,	0.8352	,09:02:14	,31-Aug-2012
19,	12.3,	25.6,	50,	0.8060	,09:06:14	,31-Aug-2012
20,	12.7,	25.9,	49,	0.9875	,09:10:14	,31-Aug-2012
21,	11.8,	26.1,	49,	1.0215	,09:14:14	,31-Aug-2012
22,	11.6,	26.4,	48,	0.7878	,09:18:14	,31-Aug-2012
23,	10.5,	26.6,	48,	0.7644	,09:22:14	,31-Aug-2012
24,	10.7,	26.8,	47,	0.7717	,09:26:14	,31-Aug-2012
25,	11.5,	27.1,	47,	0.9212	,09:30:14	,31-Aug-2012
26,	11.6,	27.2,	47,	0.9224	,09:34:14	,31-Aug-2012
27,	10.6,	27.5,	47,	0.7102	,09:38:14	,31-Aug-2012
28,	11.5,	27.7,	46,	0.8033	,09:42:14	,31-Aug-2012
29,	12.1,	27.9,	46,	1.0693	,09:46:14	,31-Aug-2012
30,	12.9,	28.1,	46,	1.1587	,09:50:14	,31-Aug-2012
31,	12.5,	28.3,	46,	0.9735	,09:54:14	,31-Aug-2012
32,	13.2,	28.6,	46,	1.4347	,09:58:14	,31-Aug-2012
33,	12.8,	28.8,	45,	0.9437	,10:02:14	,31-Aug-2012
34,	13.1,	29.0,	45,	1.1699	,10:06:14	,31-Aug-2012
35,	13.1,	29.2,	45,	0.9943	,10:10:14	,31-Aug-2012
36,	13.2,	29.3,	44,	1.0736	,10:14:14	,31-Aug-2012
37,	14.4,	29.5,	44,	1.1800	,10:18:14	,31-Aug-2012
38,	14.0,	29.7,	44,	1.1001	,10:22:14	,31-Aug-2012
39,	13.2,	29.9,	43,	1.2016	,10:26:14	,31-Aug-2012
40,	13.2,	30.1,	43,	1.1955	,10:30:14	,31-Aug-2012
41,	14.0,	30.2,	43,	1.0903	,10:34:14	,31-Aug-2012
42,	15.0,	30.4,	42,	1.0701	,10:38:14	,31-Aug-2012

```
43,        20.3,  30.6,   42,   2.2983  ,10:42:14  ,31-Aug-2012
44,        15.3,  30.7,   41,   1.2765  ,10:46:14  ,31-Aug-2012
45,        19.0,  30.8,   41,   2.6741  ,10:50:14  ,31-Aug-2012
46,        17.2,  31.0,   41,   1.6059  ,10:54:14  ,31-Aug-2012
47,        17.0,  31.1,   41,   1.4363  ,10:58:14  ,31-Aug-2012
48,        16.0,  31.2,   41,   1.3223  ,11:02:14  ,31-Aug-2012
49,        18.1,  31.4,   41,   1.2807  ,11:06:14  ,31-Aug-2012
50,        18.9,  31.5,   41,   1.4687  ,11:10:14  ,31-Aug-2012
51,        18.0,  31.6,   40,   0.9961  ,11:14:14  ,31-Aug-2012
52,        17.2,  31.6,   40,   0.9153  ,11:18:14  ,31-Aug-2012
53,        16.3,  31.7,   40,   0.9381  ,11:22:14  ,31-Aug-2012
54,        16.0,  31.8,   40,   0.8741  ,11:26:14  ,31-Aug-2012
55,        17.0,  31.9,   40,   0.9870  ,11:30:14  ,31-Aug-2012
56,        17.9,  32.0,   40,   0.9756  ,11:34:14  ,31-Aug-2012
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"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 3
"Start Time ", 07:38:25
"Start Date ", 31-Aug-2012
"Log Period ", 00:04:00
"Number   ", 61
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 42.520080
"Max MASS @ ", 50 ,10:58:25 ,31-Aug-2012
"Avg MASS   ", 18.649360
"Max Diam   ", 3.734500
"Max Diam @ ", 46 ,10:42:25 ,31-Aug-2012
"Avg Diam   ", 1.730739
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	11.4,	18.1,	52,	0.9209	,07:42:25	,31-Aug-2012
2,	13.3,	18.3,	55,	1.0741	,07:46:25	,31-Aug-2012
3,	12.1,	18.5,	57,	1.0788	,07:50:25	,31-Aug-2012
4,	11.6,	18.7,	58,	0.9978	,07:54:25	,31-Aug-2012
5,	11.5,	19.0,	59,	0.9955	,07:58:25	,31-Aug-2012
6,	15.7,	19.2,	59,	1.7558	,08:02:25	,31-Aug-2012
7,	15.8,	19.4,	60,	1.8849	,08:06:25	,31-Aug-2012
8,	34.0,	19.5,	60,	2.6083	,08:10:25	,31-Aug-2012
9,	20.0,	19.7,	60,	2.3612	,08:14:25	,31-Aug-2012
10,	22.9,	20.0,	60,	2.2968	,08:18:25	,31-Aug-2012
11,	22.6,	20.1,	60,	3.2140	,08:22:25	,31-Aug-2012
12,	16.8,	20.4,	60,	1.5549	,08:26:25	,31-Aug-2012
13,	14.1,	20.6,	60,	1.1352	,08:30:25	,31-Aug-2012
14,	19.2,	20.8,	59,	1.8716	,08:34:25	,31-Aug-2012
15,	15.0,	21.1,	59,	1.7223	,08:38:25	,31-Aug-2012
16,	14.6,	21.3,	58,	1.2116	,08:42:25	,31-Aug-2012
17,	16.2,	21.6,	58,	1.6953	,08:46:25	,31-Aug-2012
18,	17.3,	21.8,	57,	1.5023	,08:50:25	,31-Aug-2012
19,	12.6,	22.1,	56,	1.2986	,08:54:25	,31-Aug-2012
20,	13.6,	22.3,	55,	1.3209	,08:58:25	,31-Aug-2012
21,	11.7,	22.5,	55,	0.9504	,09:02:25	,31-Aug-2012
22,	14.5,	22.8,	54,	1.2630	,09:06:25	,31-Aug-2012
23,	12.9,	23.0,	53,	1.1417	,09:10:25	,31-Aug-2012
24,	13.1,	23.2,	53,	1.2537	,09:14:25	,31-Aug-2012
25,	13.7,	23.4,	52,	1.0867	,09:18:25	,31-Aug-2012
26,	12.1,	23.6,	52,	1.0028	,09:22:25	,31-Aug-2012
27,	20.5,	23.8,	51,	1.3624	,09:26:25	,31-Aug-2012
28,	11.7,	24.1,	51,	0.8948	,09:30:25	,31-Aug-2012
29,	12.1,	24.2,	50,	0.9855	,09:34:25	,31-Aug-2012
30,	14.8,	24.5,	50,	1.0500	,09:38:25	,31-Aug-2012
31,	12.8,	24.6,	50,	1.0811	,09:42:25	,31-Aug-2012
32,	13.7,	24.8,	50,	1.0457	,09:46:25	,31-Aug-2012
33,	16.6,	25.0,	49,	1.6552	,09:50:25	,31-Aug-2012
34,	14.0,	25.2,	49,	1.2032	,09:54:25	,31-Aug-2012
35,	17.2,	25.4,	49,	1.9314	,09:58:25	,31-Aug-2012
36,	16.0,	25.6,	49,	1.4131	,10:02:25	,31-Aug-2012
37,	18.1,	25.7,	48,	2.3475	,10:06:25	,31-Aug-2012
38,	13.9,	25.9,	48,	1.2188	,10:10:25	,31-Aug-2012
39,	19.3,	26.1,	48,	2.2224	,10:14:25	,31-Aug-2012
40,	15.7,	26.4,	48,	1.7004	,10:18:25	,31-Aug-2012
41,	28.7,	27.2,	48,	2.4493	,10:22:25	,31-Aug-2012
42,	16.8,	27.4,	48,	1.9634	,10:26:25	,31-Aug-2012

43,	18.5,	27.5,	47,	2.5618	,10:30:25	,31-Aug-2012
44,	25.2,	27.7,	47,	2.9887	,10:34:25	,31-Aug-2012
45,	21.2,	27.9,	46,	2.7046	,10:38:25	,31-Aug-2012
46,	41.2,	28.1,	46,	3.7345	,10:42:25	,31-Aug-2012
47,	20.3,	28.2,	45,	2.1391	,10:46:25	,31-Aug-2012
48,	20.1,	28.4,	45,	2.7068	,10:50:25	,31-Aug-2012
49,	21.5,	28.6,	45,	2.3612	,10:54:25	,31-Aug-2012
50,	42.5,	28.7,	45,	3.1122	,10:58:25	,31-Aug-2012
51,	20.2,	28.9,	44,	1.8110	,11:02:25	,31-Aug-2012
52,	18.9,	29.0,	44,	1.5958	,11:06:25	,31-Aug-2012
53,	35.1,	29.1,	44,	3.6820	,11:10:25	,31-Aug-2012
54,	22.1,	29.2,	44,	1.5105	,11:14:25	,31-Aug-2012
55,	19.5,	29.3,	44,	1.1972	,11:18:25	,31-Aug-2012
56,	21.3,	29.4,	43,	1.4796	,11:22:25	,31-Aug-2012
57,	28.9,	29.5,	43,	1.9804	,11:26:25	,31-Aug-2012
58,	25.7,	29.5,	43,	2.2090	,11:30:25	,31-Aug-2012
59,	20.9,	29.6,	43,	1.3049	,11:34:25	,31-Aug-2012
60,	22.0,	29.6,	43,	1.4030	,11:38:25	,31-Aug-2012
61,	22.0,	29.7,	43,	1.3694	,11:42:25	,31-Aug-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/4/2012

CLIENT: NL Industries

WEATHER: 80° Sunny/Rain

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

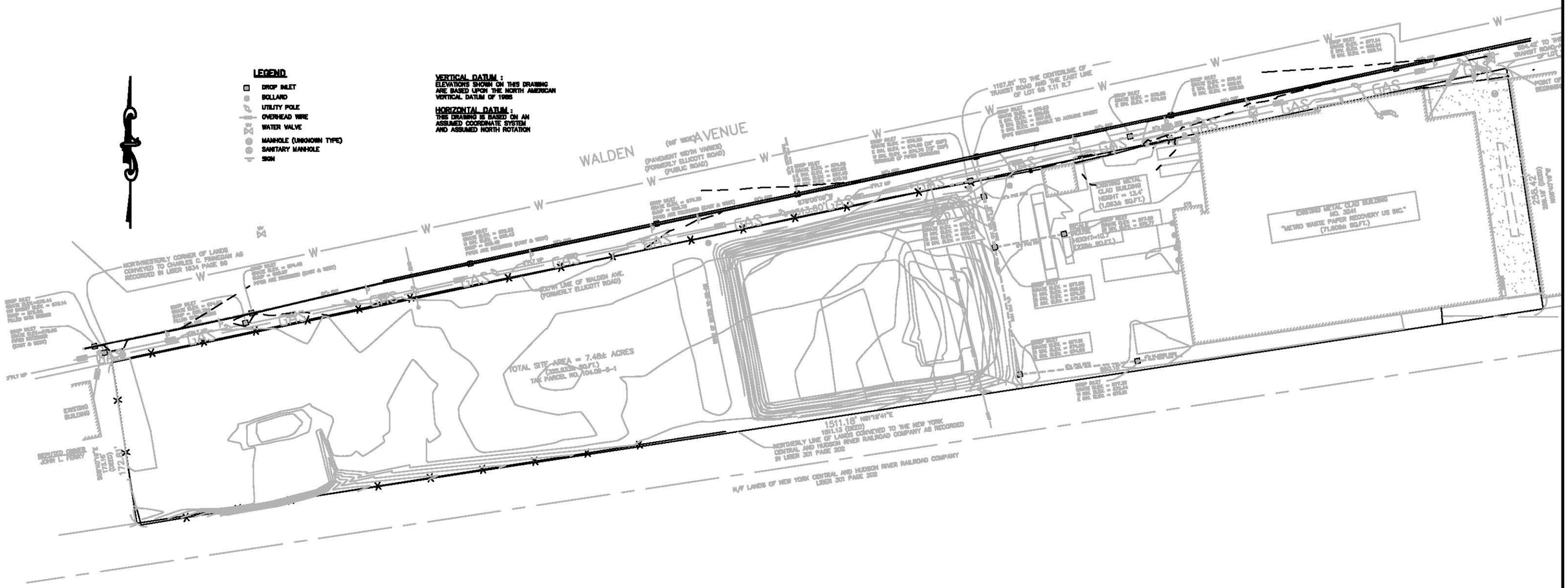
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI began excavation at the western end of the site working towards the east. Approximately 2 inches of material was removed from along the curb and the western most driveway. Traffic control has been shifted to the west to adjust for the new work area. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Eight inch silt socks were installed around the excavation along the curb and driveway.

AGC performed air monitoring during excavation and soil moving activities. One exceedance to the action limit was observed. No visible dust was observed, and soils were moist from overnight rain and dust suppression activities. Air monitoring data is attached to this report. Heavy rain was noted beginning at 1430.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 5
"Start Time ", 07:34:14
"Start Date ", 04-Sep-2012
"Log Period ", 00:04:00
"Number   ", 101
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 67.415540
"Max MASS @ ", 1 ,07:38:14 ,04-Sep-2012
"Avg MASS   ", 32.248910
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,07:42:14 ,04-Sep-2012
"Avg Diam   ", 2.644001
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	67.4,	22.7,	61,	3.7816	,07:38:14 ,04-Sep-2012
2,	64.8,	22.9,	68,	4.1270	,07:42:14 ,04-Sep-2012
3,	59.4,	23.1,	71,	4.1270	,07:46:14 ,04-Sep-2012
4,	57.2,	23.2,	73,	4.1270	,07:50:14 ,04-Sep-2012
5,	54.9,	23.4,	74,	4.1270	,07:54:14 ,04-Sep-2012
6,	53.3,	23.6,	75,	4.1270	,07:58:14 ,04-Sep-2012
7,	53.2,	23.7,	76,	4.1270	,08:02:14 ,04-Sep-2012
8,	49.7,	24.0,	76,	4.1270	,08:06:14 ,04-Sep-2012
9,	49.0,	24.1,	77,	4.1270	,08:10:14 ,04-Sep-2012
10,	45.6,	24.3,	77,	4.1270	,08:14:14 ,04-Sep-2012
11,	46.1,	24.5,	77,	4.1270	,08:18:14 ,04-Sep-2012
12,	45.8,	24.7,	77,	4.1270	,08:22:14 ,04-Sep-2012
13,	47.9,	24.9,	77,	4.1270	,08:26:14 ,04-Sep-2012
14,	47.4,	25.1,	77,	4.1270	,08:30:14 ,04-Sep-2012
15,	48.6,	25.3,	77,	4.1270	,08:34:14 ,04-Sep-2012
16,	47.8,	25.5,	77,	4.1270	,08:38:14 ,04-Sep-2012
17,	45.8,	25.7,	77,	4.1270	,08:42:14 ,04-Sep-2012
18,	44.8,	26.0,	77,	4.1270	,08:46:14 ,04-Sep-2012
19,	44.9,	26.2,	77,	4.1270	,08:50:14 ,04-Sep-2012
20,	45.4,	26.6,	76,	4.1270	,08:54:14 ,04-Sep-2012
21,	43.1,	26.9,	76,	4.1270	,08:58:14 ,04-Sep-2012
22,	43.0,	27.2,	75,	4.1270	,09:02:14 ,04-Sep-2012
23,	46.2,	27.4,	74,	4.1270	,09:06:14 ,04-Sep-2012
24,	42.5,	27.7,	74,	4.1247	,09:10:14 ,04-Sep-2012
25,	44.3,	27.9,	73,	4.1146	,09:14:14 ,04-Sep-2012
26,	41.8,	28.1,	72,	3.9257	,09:18:14 ,04-Sep-2012
27,	42.7,	28.4,	72,	4.0929	,09:22:14 ,04-Sep-2012
28,	41.6,	28.6,	71,	4.0935	,09:26:14 ,04-Sep-2012
29,	38.7,	28.7,	70,	3.9368	,09:30:14 ,04-Sep-2012
30,	36.8,	29.0,	69,	3.5042	,09:34:14 ,04-Sep-2012
31,	36.7,	29.2,	69,	3.6555	,09:38:14 ,04-Sep-2012
32,	35.3,	29.4,	68,	3.4223	,09:42:14 ,04-Sep-2012
33,	34.6,	29.6,	67,	3.4253	,09:46:14 ,04-Sep-2012
34,	35.1,	29.8,	67,	3.2573	,09:50:14 ,04-Sep-2012
35,	35.5,	30.0,	66,	3.4257	,09:54:14 ,04-Sep-2012
36,	30.5,	30.3,	65,	2.4465	,09:58:14 ,04-Sep-2012
37,	31.1,	30.6,	64,	2.4039	,10:02:14 ,04-Sep-2012
38,	29.3,	31.0,	63,	2.1501	,10:06:14 ,04-Sep-2012
39,	29.3,	31.4,	62,	2.5998	,10:10:14 ,04-Sep-2012
40,	25.9,	31.9,	61,	1.8715	,10:14:14 ,04-Sep-2012
41,	27.7,	32.3,	59,	2.0878	,10:18:14 ,04-Sep-2012
42,	25.8,	32.7,	58,	1.8651	,10:22:14 ,04-Sep-2012

43,	23.8,	33.1,	57,	1.6754	,10:26:14	,04-Sep-2012
44,	20.7,	33.4,	55,	1.5911	,10:30:14	,04-Sep-2012
45,	19.0,	33.6,	54,	1.7813	,10:34:14	,04-Sep-2012
46,	17.0,	33.8,	53,	1.2791	,10:38:14	,04-Sep-2012
47,	15.7,	34.0,	52,	1.2882	,10:42:14	,04-Sep-2012
48,	14.1,	34.1,	51,	1.4535	,10:46:14	,04-Sep-2012
49,	18.0,	34.2,	51,	1.4855	,10:50:14	,04-Sep-2012
50,	16.4,	34.2,	50,	1.4765	,10:54:14	,04-Sep-2012
51,	15.2,	34.2,	50,	1.3375	,10:58:14	,04-Sep-2012
52,	16.2,	34.2,	49,	1.3010	,11:02:14	,04-Sep-2012
53,	16.0,	34.4,	49,	1.2902	,11:06:14	,04-Sep-2012
54,	17.3,	34.5,	49,	1.3868	,11:10:14	,04-Sep-2012
55,	16.0,	34.5,	48,	1.4021	,11:14:14	,04-Sep-2012
56,	17.5,	34.5,	48,	1.4837	,11:18:14	,04-Sep-2012
57,	19.4,	34.5,	48,	1.5927	,11:22:14	,04-Sep-2012
58,	18.9,	34.4,	48,	1.4287	,11:26:14	,04-Sep-2012
59,	18.8,	34.2,	48,	1.3467	,11:30:14	,04-Sep-2012
60,	23.4,	34.1,	48,	1.6758	,11:34:14	,04-Sep-2012
61,	24.2,	34.0,	48,	1.6737	,11:38:14	,04-Sep-2012
62,	30.1,	33.8,	49,	2.0334	,11:42:14	,04-Sep-2012
63,	33.6,	33.7,	50,	2.2643	,11:46:14	,04-Sep-2012
64,	36.2,	33.6,	50,	2.2883	,11:50:14	,04-Sep-2012
65,	33.5,	33.5,	51,	2.1974	,11:54:14	,04-Sep-2012
66,	35.2,	33.4,	51,	3.0027	,11:58:14	,04-Sep-2012
67,	35.5,	33.3,	51,	2.7094	,12:02:14	,04-Sep-2012
68,	36.1,	33.2,	52,	2.3361	,12:06:14	,04-Sep-2012
69,	37.2,	33.1,	52,	2.8856	,12:10:14	,04-Sep-2012
70,	36.5,	33.1,	52,	3.1039	,12:14:14	,04-Sep-2012
71,	35.4,	33.0,	53,	2.7722	,12:18:14	,04-Sep-2012
72,	33.5,	33.0,	53,	2.6528	,12:22:14	,04-Sep-2012
73,	35.5,	33.0,	53,	2.7247	,12:26:14	,04-Sep-2012
74,	37.4,	33.0,	53,	3.0415	,12:30:14	,04-Sep-2012
75,	36.3,	33.1,	53,	2.9927	,12:34:14	,04-Sep-2012
76,	35.6,	33.1,	53,	2.6302	,12:38:14	,04-Sep-2012
77,	33.5,	33.1,	53,	2.4404	,12:42:14	,04-Sep-2012
78,	34.3,	33.2,	53,	2.3777	,12:46:14	,04-Sep-2012
79,	33.9,	33.3,	52,	2.6094	,12:50:14	,04-Sep-2012
80,	33.1,	33.4,	52,	2.3872	,12:54:14	,04-Sep-2012
81,	32.5,	33.4,	52,	2.9179	,12:58:14	,04-Sep-2012
82,	29.2,	33.5,	52,	2.3190	,13:02:14	,04-Sep-2012
83,	28.5,	33.5,	51,	2.2061	,13:06:14	,04-Sep-2012
84,	26.4,	33.7,	51,	1.9560	,13:10:14	,04-Sep-2012
85,	23.9,	33.8,	50,	1.9541	,13:14:14	,04-Sep-2012
86,	22.1,	34.0,	50,	1.6133	,13:18:14	,04-Sep-2012
87,	21.9,	34.1,	49,	1.4321	,13:22:14	,04-Sep-2012
88,	19.2,	34.2,	49,	2.0866	,13:26:14	,04-Sep-2012
89,	17.3,	34.3,	48,	1.5418	,13:30:14	,04-Sep-2012
90,	12.6,	34.4,	47,	1.2052	,13:34:14	,04-Sep-2012
91,	13.0,	34.5,	47,	1.1048	,13:38:14	,04-Sep-2012
92,	15.6,	34.7,	47,	1.2392	,13:42:14	,04-Sep-2012
93,	17.4,	34.9,	47,	1.2242	,13:46:14	,04-Sep-2012
94,	16.9,	35.0,	46,	1.1863	,13:50:14	,04-Sep-2012
95,	18.2,	35.1,	46,	1.3779	,13:54:14	,04-Sep-2012
96,	19.1,	35.1,	46,	1.4551	,13:58:14	,04-Sep-2012
97,	18.4,	35.1,	46,	1.2835	,14:02:14	,04-Sep-2012
98,	18.6,	35.1,	46,	1.5760	,14:06:14	,04-Sep-2012
99,	19.2,	35.0,	47,	1.5154	,14:10:14	,04-Sep-2012
100,	21.3,	34.8,	48,	1.8085	,14:14:14	,04-Sep-2012
101,	19.4,	34.7,	49,	1.6639	,14:18:14	,04-Sep-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 4
"Start Time ", 07:35:30
"Start Date ", 04-Sep-2012
"Log Period ", 00:04:00
"Number   ", 98
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 75.353550
"Max MASS @ ", 45 ,10:35:30 ,04-Sep-2012
"Avg MASS   ", 34.806220
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,07:43:30 ,04-Sep-2012
"Avg Diam   ", 3.355720
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	55.3,	21.1,	60,	3.5426	,07:39:30 ,04-Sep-2012
2,	58.7,	21.3,	67,	4.1270	,07:43:30 ,04-Sep-2012
3,	56.8,	21.5,	71,	4.1270	,07:47:30 ,04-Sep-2012
4,	54.5,	21.6,	73,	4.1270	,07:51:30 ,04-Sep-2012
5,	55.0,	21.7,	75,	4.1270	,07:55:30 ,04-Sep-2012
6,	58.2,	21.9,	76,	4.1270	,07:59:30 ,04-Sep-2012
7,	54.2,	22.0,	77,	4.1270	,08:03:30 ,04-Sep-2012
8,	50.2,	22.2,	78,	4.1270	,08:07:30 ,04-Sep-2012
9,	46.8,	22.4,	78,	4.1270	,08:11:30 ,04-Sep-2012
10,	46.2,	22.6,	79,	4.1270	,08:15:30 ,04-Sep-2012
11,	48.2,	22.8,	79,	4.1270	,08:19:30 ,04-Sep-2012
12,	45.1,	23.2,	80,	4.1270	,08:23:30 ,04-Sep-2012
13,	47.1,	23.5,	80,	4.1270	,08:27:30 ,04-Sep-2012
14,	48.8,	23.9,	80,	4.1270	,08:31:30 ,04-Sep-2012
15,	46.8,	24.4,	80,	4.1270	,08:35:30 ,04-Sep-2012
16,	45.9,	24.7,	80,	4.1270	,08:39:30 ,04-Sep-2012
17,	44.8,	25.0,	80,	4.1270	,08:43:30 ,04-Sep-2012
18,	46.3,	25.4,	79,	4.1270	,08:47:30 ,04-Sep-2012
19,	55.7,	25.8,	79,	4.1270	,08:51:30 ,04-Sep-2012
20,	46.0,	26.2,	79,	4.1270	,08:55:30 ,04-Sep-2012
21,	44.1,	26.5,	78,	4.1270	,08:59:30 ,04-Sep-2012
22,	44.3,	26.8,	77,	4.1270	,09:03:30 ,04-Sep-2012
23,	45.5,	27.1,	76,	4.1270	,09:07:30 ,04-Sep-2012
24,	42.6,	27.4,	75,	4.1270	,09:11:30 ,04-Sep-2012
25,	48.2,	27.7,	74,	4.1270	,09:15:30 ,04-Sep-2012
26,	43.5,	28.0,	73,	4.1270	,09:19:30 ,04-Sep-2012
27,	41.9,	28.2,	72,	4.1227	,09:23:30 ,04-Sep-2012
28,	44.2,	28.5,	71,	4.1270	,09:27:30 ,04-Sep-2012
29,	42.2,	28.7,	70,	4.1270	,09:31:30 ,04-Sep-2012
30,	39.8,	29.0,	70,	4.0897	,09:35:30 ,04-Sep-2012
31,	39.2,	29.2,	69,	3.9894	,09:39:30 ,04-Sep-2012
32,	42.0,	29.4,	68,	4.0363	,09:43:30 ,04-Sep-2012
33,	38.1,	29.6,	67,	3.9463	,09:47:30 ,04-Sep-2012
34,	36.3,	29.8,	66,	3.6982	,09:51:30 ,04-Sep-2012
35,	33.3,	30.1,	65,	3.4350	,09:55:30 ,04-Sep-2012
36,	30.2,	30.3,	64,	3.2748	,09:59:30 ,04-Sep-2012
37,	31.4,	30.6,	63,	2.9446	,10:03:30 ,04-Sep-2012
38,	31.8,	30.9,	62,	3.0704	,10:07:30 ,04-Sep-2012
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40,	32.5,	31.5,	59,	3.3546	,10:15:30 ,04-Sep-2012
41,	27.8,	31.8,	58,	2.5711	,10:19:30 ,04-Sep-2012
42,	32.6,	32.1,	57,	3.0974	,10:23:30 ,04-Sep-2012

43,	34.7,	32.4,	56,	3.4407	,10:27:30	,04-Sep-2012
44,	28.3,	32.6,	55,	3.4632	,10:31:30	,04-Sep-2012
45,	75.4,	32.8,	54,	4.1270	,10:35:30	,04-Sep-2012
46,	22.7,	33.0,	53,	3.3667	,10:39:30	,04-Sep-2012
47,	19.8,	33.1,	52,	2.7997	,10:43:30	,04-Sep-2012
48,	16.1,	33.2,	51,	1.9017	,10:47:30	,04-Sep-2012
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50,	25.8,	33.3,	50,	3.6728	,10:55:30	,04-Sep-2012
51,	23.0,	33.4,	50,	3.1328	,10:59:30	,04-Sep-2012
52,	20.3,	33.5,	49,	2.6174	,11:03:30	,04-Sep-2012
53,	16.8,	33.6,	49,	1.7019	,11:07:30	,04-Sep-2012
54,	18.1,	33.7,	48,	1.7199	,11:11:30	,04-Sep-2012
55,	17.1,	33.7,	48,	1.9771	,11:15:30	,04-Sep-2012
56,	19.2,	33.7,	48,	2.3462	,11:19:30	,04-Sep-2012
57,	19.9,	33.7,	48,	2.5376	,11:23:30	,04-Sep-2012
58,	20.3,	33.7,	47,	2.3217	,11:27:30	,04-Sep-2012
59,	22.2,	33.6,	47,	2.5116	,11:31:30	,04-Sep-2012
60,	26.0,	33.6,	48,	2.9918	,11:35:30	,04-Sep-2012
61,	28.2,	33.5,	48,	2.3899	,11:39:30	,04-Sep-2012
62,	32.8,	33.5,	48,	3.4266	,11:43:30	,04-Sep-2012
63,	35.1,	33.4,	49,	3.6616	,11:47:30	,04-Sep-2012
64,	33.8,	33.3,	50,	3.4660	,11:51:30	,04-Sep-2012
65,	33.4,	33.2,	50,	3.2048	,11:55:30	,04-Sep-2012
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70,	38.1,	33.1,	51,	4.0871	,12:15:30	,04-Sep-2012
71,	34.7,	33.0,	51,	3.6321	,12:19:30	,04-Sep-2012
72,	33.1,	33.0,	52,	3.1875	,12:23:30	,04-Sep-2012
73,	35.8,	33.0,	52,	3.8512	,12:27:30	,04-Sep-2012
74,	37.9,	33.0,	52,	4.0762	,12:31:30	,04-Sep-2012
75,	35.1,	33.0,	52,	3.7721	,12:35:30	,04-Sep-2012
76,	40.0,	33.1,	52,	3.8991	,12:39:30	,04-Sep-2012
77,	32.8,	33.1,	52,	2.9908	,12:43:30	,04-Sep-2012
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79,	33.7,	33.2,	51,	3.3520	,12:51:30	,04-Sep-2012
80,	32.4,	33.2,	51,	2.9814	,12:55:30	,04-Sep-2012
81,	32.5,	33.3,	51,	3.5480	,12:59:30	,04-Sep-2012
82,	27.0,	33.4,	50,	2.7835	,13:03:30	,04-Sep-2012
83,	26.2,	33.6,	50,	2.6529	,13:07:30	,04-Sep-2012
84,	24.3,	33.7,	49,	2.1902	,13:11:30	,04-Sep-2012
85,	22.1,	33.9,	48,	2.0431	,13:15:30	,04-Sep-2012
86,	23.2,	34.1,	48,	2.7700	,13:19:30	,04-Sep-2012
87,	25.3,	34.2,	47,	2.8633	,13:23:30	,04-Sep-2012
88,	17.0,	34.3,	47,	1.8796	,13:27:30	,04-Sep-2012
89,	14.5,	34.5,	46,	1.8765	,13:31:30	,04-Sep-2012
90,	13.2,	34.6,	45,	1.3821	,13:35:30	,04-Sep-2012
91,	17.1,	34.7,	45,	2.0561	,13:39:30	,04-Sep-2012
92,	21.9,	34.8,	45,	2.3366	,13:43:30	,04-Sep-2012
93,	19.3,	35.0,	44,	1.9195	,13:47:30	,04-Sep-2012
94,	30.6,	35.1,	44,	3.7261	,13:51:30	,04-Sep-2012
95,	19.7,	35.1,	44,	2.2525	,13:55:30	,04-Sep-2012
96,	19.2,	35.2,	44,	1.7358	,13:59:30	,04-Sep-2012
97,	25.1,	35.2,	44,	2.7931	,14:03:30	,04-Sep-2012
98,	34.3,	35.2,	44,	3.6224	,14:07:30	,04-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/5/2012

CLIENT: NL Industries

WEATHER: 70° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

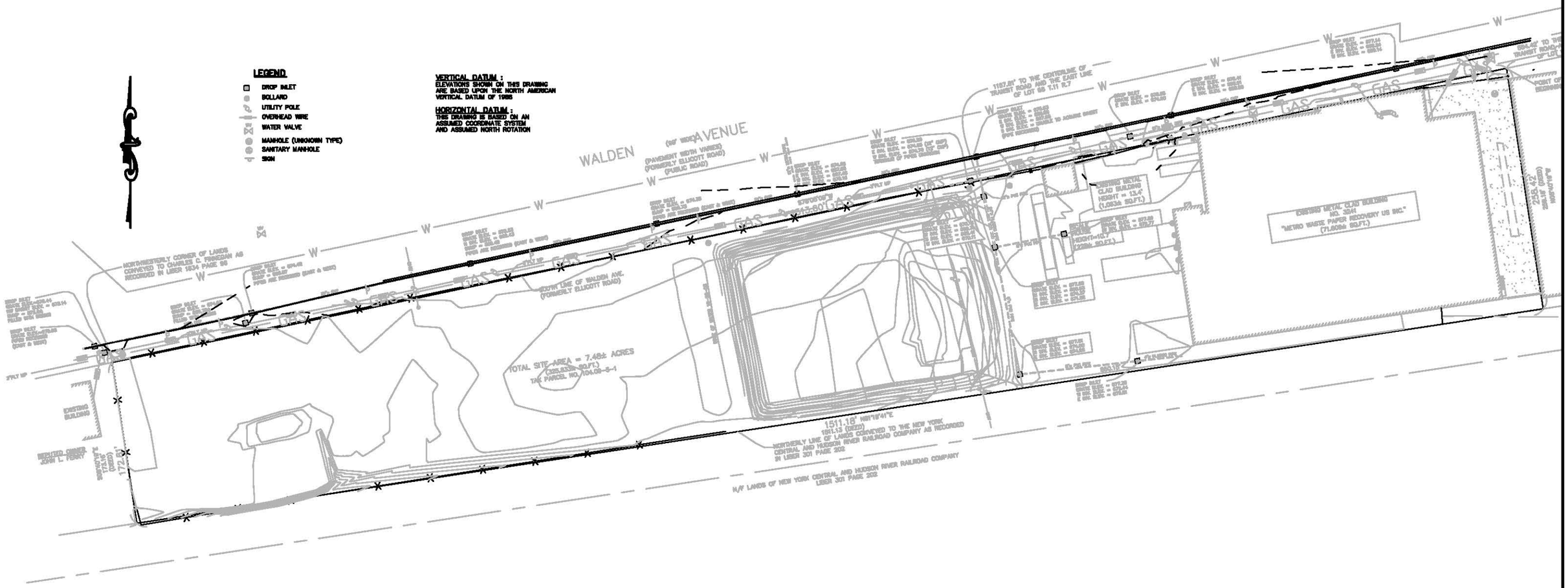
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI continued excavation at the western end of the site working towards the east. Approximately 2 inches of material was removed from along the curb and an inlet located within the ROW. Traffic control has been shifted to the west to adjust for the new work area. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. Began installing pavers beginning at the western end of the Site. Eight inch silt socks were installed around the excavation along the curb and driveway.

AGC performed air monitoring during excavation and soil moving activities. Several exceedances to the action limit was observed early in the morning. It was noted that no soil was being disturbed at the time and high humidity was noted due to overnight rain. No visible dust was observed, and soils were moist from overnight rain and dust suppression activities. Air monitoring data is attached to this report.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

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tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 5
"Start Time ", 07:02:50
"Start Date ", 05-Sep-2012
"Log Period ", 00:04:00
"Number   ", 116
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 76.720480
"Max MASS @ ", 22 ,08:30:50 ,05-Sep-2012
"Avg MASS   ", 24.316940
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,07:10:50 ,05-Sep-2012
"Avg Diam   ", 2.428636
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	49.8,	20.2,	60,	3.8000	,07:06:50 ,05-Sep-2012
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3,	47.9,	20.3,	69,	4.1270	,07:14:50 ,05-Sep-2012
4,	53.4,	20.3,	71,	4.1270	,07:18:50 ,05-Sep-2012
5,	61.1,	20.4,	73,	4.1270	,07:22:50 ,05-Sep-2012
6,	55.3,	20.5,	74,	4.1270	,07:26:50 ,05-Sep-2012
7,	44.4,	20.5,	75,	4.1270	,07:30:50 ,05-Sep-2012
8,	46.8,	20.6,	76,	4.1270	,07:34:50 ,05-Sep-2012
9,	46.7,	20.7,	76,	4.1270	,07:38:50 ,05-Sep-2012
10,	43.7,	20.9,	77,	4.1270	,07:42:50 ,05-Sep-2012
11,	47.9,	21.0,	77,	4.1270	,07:46:50 ,05-Sep-2012
12,	52.8,	21.1,	77,	4.1270	,07:50:50 ,05-Sep-2012
13,	55.9,	21.2,	78,	4.1270	,07:54:50 ,05-Sep-2012
14,	65.9,	21.4,	78,	4.1270	,07:58:50 ,05-Sep-2012
15,	63.8,	21.5,	78,	4.1270	,08:02:50 ,05-Sep-2012
16,	60.9,	21.7,	78,	4.1270	,08:06:50 ,05-Sep-2012
17,	57.8,	21.8,	78,	4.1270	,08:10:50 ,05-Sep-2012
18,	56.5,	22.0,	79,	4.1270	,08:14:50 ,05-Sep-2012
19,	59.4,	22.1,	79,	4.1270	,08:18:50 ,05-Sep-2012
20,	58.3,	22.3,	78,	4.1270	,08:22:50 ,05-Sep-2012
21,	74.3,	22.5,	78,	4.1270	,08:26:50 ,05-Sep-2012
22,	76.7,	22.7,	78,	4.1270	,08:30:50 ,05-Sep-2012
23,	59.3,	22.9,	78,	4.1270	,08:34:50 ,05-Sep-2012
24,	56.0,	23.1,	78,	4.1270	,08:38:50 ,05-Sep-2012
25,	53.7,	23.3,	78,	4.1270	,08:42:50 ,05-Sep-2012
26,	46.2,	23.5,	78,	4.1270	,08:46:50 ,05-Sep-2012
27,	47.2,	23.7,	78,	4.1270	,08:50:50 ,05-Sep-2012
28,	47.5,	23.9,	77,	4.1270	,08:54:50 ,05-Sep-2012
29,	46.7,	24.1,	77,	4.1270	,08:58:50 ,05-Sep-2012
30,	46.9,	24.2,	76,	4.1270	,09:02:50 ,05-Sep-2012
31,	43.7,	24.4,	76,	4.1270	,09:06:50 ,05-Sep-2012
32,	42.5,	24.6,	76,	4.1270	,09:10:50 ,05-Sep-2012
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54,	14.7,	30.5,	59,	2.5502	,10:38:50	,05-Sep-2012
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60,	12.4,	32.0,	54,	2.6857	,11:02:50	,05-Sep-2012
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62,	11.1,	32.8,	52,	1.3823	,11:10:50	,05-Sep-2012
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88,	11.1,	36.6,	40,	0.8626	,12:54:50	,05-Sep-2012
89,	10.8,	36.9,	39,	0.9812	,12:58:50	,05-Sep-2012
90,	10.5,	37.3,	39,	0.8846	,13:02:50	,05-Sep-2012
91,	9.8,	37.7,	38,	0.7835	,13:06:50	,05-Sep-2012
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113,       11.3,  40.7,   31,   0.9893  ,14:34:50  ,05-Sep-2012
114,       10.0,  40.9,   30,   0.6920  ,14:38:50  ,05-Sep-2012
115,        9.3,  41.0,   30,   0.6860  ,14:42:50  ,05-Sep-2012
116,       10.6,  41.0,   31,   0.7678  ,14:46:50  ,05-Sep-2012
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"Tag Number ", 4
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"Start Date ", 05-Sep-2012
"Log Period ", 00:04:00
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"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
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"Avg MASS   ", 25.005940
"Max Diam   ", 4.126979
"Max Diam @ ", 2 ,08:01:34 ,05-Sep-2012
"Avg Diam   ", 2.743611
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"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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4,	78.9,	19.1,	71,	4.1270	,08:09:34	,05-Sep-2012
5,	74.3,	19.2,	73,	4.1270	,08:13:34	,05-Sep-2012
6,	69.3,	19.4,	75,	4.1270	,08:17:34	,05-Sep-2012
7,	66.7,	19.6,	76,	4.1270	,08:21:34	,05-Sep-2012
8,	62.1,	19.8,	77,	4.1270	,08:25:34	,05-Sep-2012
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12,	49.3,	20.9,	79,	4.1270	,08:41:34	,05-Sep-2012
13,	48.6,	21.2,	79,	4.1270	,08:45:34	,05-Sep-2012
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16,	50.9,	21.8,	78,	4.1270	,08:57:34	,05-Sep-2012
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28,	14.5,	25.7,	71,	4.1246	,09:45:34	,05-Sep-2012
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30,	17.8,	26.3,	70,	4.1270	,09:53:34	,05-Sep-2012
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56,	9.2,	34.2,	45,	1.0122	,11:37:34	,05-Sep-2012
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58,	10.9,	34.6,	43,	1.2886	,11:45:34	,05-Sep-2012
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78,	10.8,	37.6,	36,	1.2620	,13:05:34	,05-Sep-2012
79,	9.0,	37.9,	35,	0.7880	,13:09:34	,05-Sep-2012
80,	9.9,	38.1,	34,	1.0361	,13:13:34	,05-Sep-2012
81,	9.5,	38.2,	34,	0.9676	,13:17:34	,05-Sep-2012
82,	9.3,	38.4,	34,	0.9712	,13:21:34	,05-Sep-2012
83,	9.8,	38.6,	34,	1.0157	,13:25:34	,05-Sep-2012
84,	8.6,	38.7,	33,	0.7255	,13:29:34	,05-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/6/2012

CLIENT: NL Industries

WEATHER: 85° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI continued excavation at the western end of the site working towards the east. Approximately 2 inches of material was removed from along the curb and along the fence line. Grades adjacent to the cap on the Cascades property are flush with grades outside the fence and so ERI was able to complete Type 1 excavations in this area. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. ERI continued installing pavers in the western portion of the Site working east behind the excavation. Eight inch silt socks were installed along the excavation at the curb.

AGC performed air monitoring during excavation and soil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report. AGC advised ERI as to grading along the fence line per discussion with EPA and the engineer.

Field Representative: David Benson

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/7/2012

CLIENT: NL Industries

WEATHER: 83° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

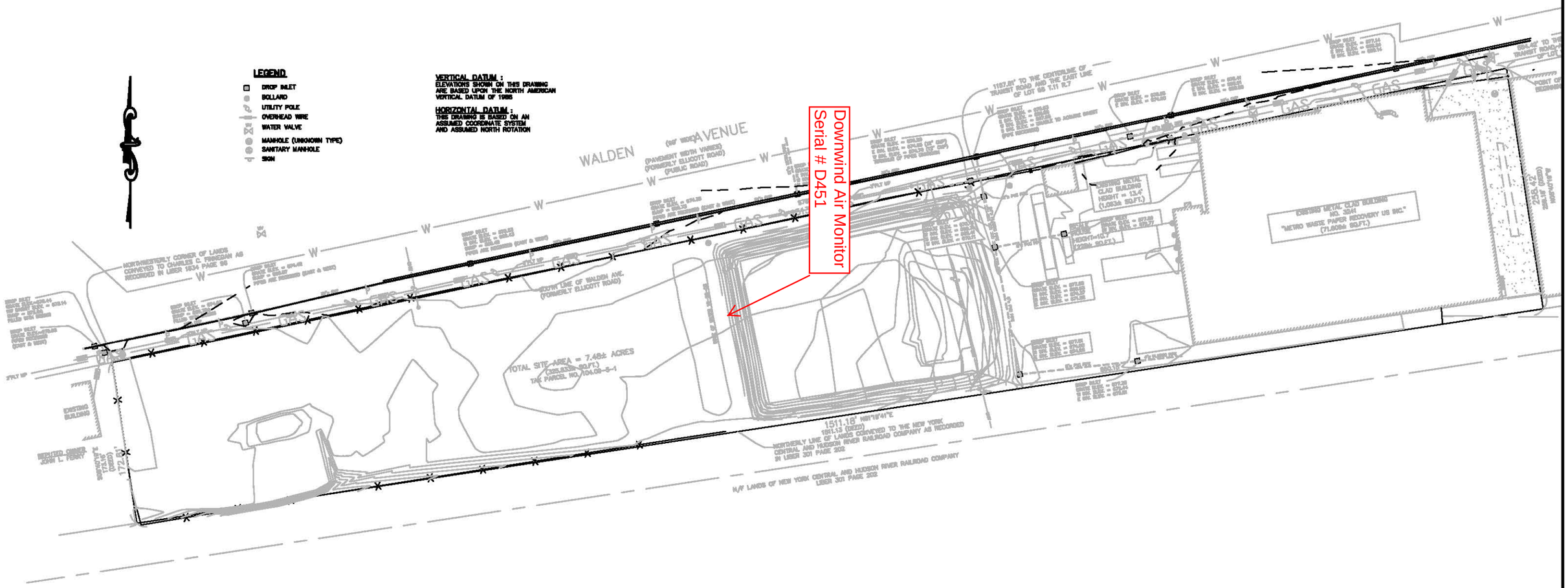
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI continued excavation at the western end of the site working towards the east. Approximately 2 inches of material was removed from along the curb and along the fence line. Grades adjacent to the cap on the Cascades property are flush with grades outside the fence and so ERI was able to complete Type 1 excavations in this area. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. At completion of the excavation Synteen SR-18 was installed over all exposed soils. ERI continued installing pavers in the western portion of the Site working east behind the excavation. Eight inch silt socks were installed along the excavation at the curb.

AGC performed air monitoring during excavation and soil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report. AGC advised ERI as to grading along the fence line per discussion with EPA and the engineer.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 7
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"Start Date ", 07-Sep-2012
"Log Period ", 00:04:00
"Number   ", 98
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"TEMPUNITS   ", C
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"Avg MASS   ", 18.850030
"Max Diam   ", 1.971747
"Max Diam @ ", 7 ,07:44:53 ,07-Sep-2012
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"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

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9,	34.8,	22.3,	68,	1.5873	,07:52:53	,07-Sep-2012
10,	34.4,	22.4,	69,	1.5569	,07:56:53	,07-Sep-2012
11,	33.6,	22.5,	69,	1.6742	,08:00:53	,07-Sep-2012
12,	32.6,	22.6,	70,	1.6316	,08:04:53	,07-Sep-2012
13,	31.0,	22.7,	70,	1.6003	,08:08:53	,07-Sep-2012
14,	29.5,	22.8,	70,	1.4233	,08:12:53	,07-Sep-2012
15,	27.7,	23.0,	70,	1.3465	,08:16:53	,07-Sep-2012
16,	27.9,	23.1,	70,	1.4392	,08:20:53	,07-Sep-2012
17,	26.6,	23.3,	70,	1.3754	,08:24:53	,07-Sep-2012
18,	26.3,	23.5,	69,	1.3691	,08:28:53	,07-Sep-2012
19,	25.4,	23.7,	69,	1.3056	,08:32:53	,07-Sep-2012
20,	24.9,	23.9,	69,	1.4413	,08:36:53	,07-Sep-2012
21,	23.9,	24.2,	68,	1.2126	,08:40:53	,07-Sep-2012
22,	24.0,	24.4,	68,	1.4287	,08:44:53	,07-Sep-2012
23,	23.5,	24.6,	67,	1.3370	,08:48:53	,07-Sep-2012
24,	23.2,	24.9,	67,	1.2463	,08:52:53	,07-Sep-2012
25,	23.0,	25.1,	67,	1.2249	,08:56:53	,07-Sep-2012
26,	22.5,	25.4,	66,	1.2392	,09:00:53	,07-Sep-2012
27,	21.6,	25.7,	65,	1.1867	,09:04:53	,07-Sep-2012
28,	21.6,	26.0,	65,	1.2246	,09:08:53	,07-Sep-2012
29,	24.4,	26.3,	65,	1.3119	,09:12:53	,07-Sep-2012
30,	21.2,	26.6,	64,	1.2505	,09:16:53	,07-Sep-2012
31,	20.8,	26.9,	63,	1.1934	,09:20:53	,07-Sep-2012
32,	19.8,	27.2,	62,	1.0416	,09:24:53	,07-Sep-2012
33,	19.0,	27.5,	61,	1.0864	,09:28:53	,07-Sep-2012
34,	19.2,	27.8,	60,	1.1621	,09:32:53	,07-Sep-2012
35,	17.5,	28.0,	59,	1.0334	,09:36:53	,07-Sep-2012
36,	16.6,	28.3,	58,	1.0309	,09:40:53	,07-Sep-2012
37,	16.6,	28.6,	57,	0.9892	,09:44:53	,07-Sep-2012
38,	15.5,	28.9,	56,	0.8397	,09:48:53	,07-Sep-2012
39,	15.8,	29.2,	55,	0.9255	,09:52:53	,07-Sep-2012
40,	15.6,	29.5,	54,	0.9084	,09:56:53	,07-Sep-2012
41,	15.5,	29.8,	53,	0.8816	,10:00:53	,07-Sep-2012
42,	15.2,	30.1,	53,	0.8689	,10:04:53	,07-Sep-2012

43,	15.4,	30.4,	52,	0.9051	,10:08:53	,07-Sep-2012
44,	14.9,	30.7,	51,	0.9195	,10:12:53	,07-Sep-2012
45,	14.5,	30.9,	51,	0.8753	,10:16:53	,07-Sep-2012
46,	14.2,	31.2,	50,	0.8301	,10:20:53	,07-Sep-2012
47,	14.3,	31.5,	49,	0.8929	,10:24:53	,07-Sep-2012
48,	13.8,	31.7,	48,	0.7961	,10:28:53	,07-Sep-2012
49,	13.2,	32.0,	47,	0.7984	,10:32:53	,07-Sep-2012
50,	13.6,	32.3,	46,	0.8305	,10:36:53	,07-Sep-2012
51,	14.1,	32.6,	46,	0.8662	,10:40:53	,07-Sep-2012
52,	12.9,	32.8,	45,	0.7936	,10:44:53	,07-Sep-2012
53,	12.8,	33.1,	44,	0.7572	,10:48:53	,07-Sep-2012
54,	13.2,	33.2,	43,	0.7938	,10:52:53	,07-Sep-2012
55,	12.5,	33.3,	43,	0.7792	,10:56:53	,07-Sep-2012
56,	11.9,	33.5,	42,	0.8193	,11:00:53	,07-Sep-2012
57,	12.0,	33.6,	41,	0.7198	,11:04:53	,07-Sep-2012
58,	12.0,	33.8,	41,	0.7276	,11:08:53	,07-Sep-2012
59,	11.8,	33.9,	40,	0.7162	,11:12:53	,07-Sep-2012
60,	11.1,	34.0,	40,	0.7203	,11:16:53	,07-Sep-2012
61,	11.3,	34.1,	39,	0.7985	,11:20:53	,07-Sep-2012
62,	13.0,	34.1,	39,	0.8510	,11:24:53	,07-Sep-2012
63,	13.5,	34.2,	39,	0.9735	,11:28:53	,07-Sep-2012
64,	13.2,	34.2,	39,	0.8777	,11:32:53	,07-Sep-2012
65,	12.6,	34.2,	38,	0.7992	,11:36:53	,07-Sep-2012
66,	12.2,	34.2,	38,	0.7482	,11:40:53	,07-Sep-2012
67,	13.2,	34.3,	38,	1.0167	,11:44:53	,07-Sep-2012
68,	13.0,	34.4,	37,	0.8432	,11:48:53	,07-Sep-2012
69,	12.3,	34.5,	37,	0.8556	,11:52:53	,07-Sep-2012
70,	11.3,	34.6,	36,	0.8577	,11:56:53	,07-Sep-2012
71,	13.5,	34.7,	36,	1.0731	,12:00:53	,07-Sep-2012
72,	13.0,	34.8,	35,	0.8816	,12:04:53	,07-Sep-2012
73,	12.5,	34.9,	35,	0.9109	,12:08:53	,07-Sep-2012
74,	11.3,	34.9,	34,	0.8347	,12:12:53	,07-Sep-2012
75,	11.4,	34.9,	34,	0.8472	,12:16:53	,07-Sep-2012
76,	11.8,	34.9,	34,	0.7546	,12:20:53	,07-Sep-2012
77,	12.3,	34.9,	34,	0.8172	,12:24:53	,07-Sep-2012
78,	12.6,	34.9,	34,	0.9472	,12:28:53	,07-Sep-2012
79,	11.5,	34.8,	35,	0.7257	,12:32:53	,07-Sep-2012
80,	11.9,	34.8,	35,	0.7513	,12:36:53	,07-Sep-2012
81,	12.9,	34.8,	35,	0.9391	,12:40:53	,07-Sep-2012
82,	12.8,	34.7,	35,	0.9828	,12:44:53	,07-Sep-2012
83,	12.5,	34.7,	35,	0.7686	,12:48:53	,07-Sep-2012
84,	12.3,	34.7,	35,	0.7459	,12:52:53	,07-Sep-2012
85,	13.3,	34.6,	35,	0.8430	,12:56:53	,07-Sep-2012
86,	13.1,	34.6,	35,	0.9011	,13:00:53	,07-Sep-2012
87,	13.1,	34.5,	35,	0.8248	,13:04:53	,07-Sep-2012
88,	13.8,	34.5,	35,	0.8109	,13:08:53	,07-Sep-2012
89,	14.8,	34.5,	36,	0.7767	,13:12:53	,07-Sep-2012
90,	14.4,	34.5,	36,	0.7874	,13:16:53	,07-Sep-2012
91,	14.5,	34.5,	36,	0.6645	,13:20:53	,07-Sep-2012
92,	16.2,	34.5,	37,	0.8012	,13:24:53	,07-Sep-2012
93,	16.4,	34.5,	37,	0.8012	,13:28:53	,07-Sep-2012
94,	16.2,	34.5,	37,	0.7275	,13:32:53	,07-Sep-2012
95,	15.2,	34.5,	38,	0.7398	,13:36:53	,07-Sep-2012
96,	15.7,	34.5,	38,	0.7033	,13:40:53	,07-Sep-2012
97,	27.0,	34.6,	38,	1.3520	,13:44:53	,07-Sep-2012
98,	32.2,	34.6,	38,	0.9063	,13:48:53	,07-Sep-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 6
"Start Time ", 07:21:40
"Start Date ", 07-Sep-2012
"Log Period ", 00:04:00
"Number   ", 94
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 46.095460
"Max MASS @ ", 6 ,07:45:40 ,07-Sep-2012
"Avg MASS   ", 19.751900
"Max Diam   ", 3.662520
"Max Diam @ ", 6 ,07:45:40 ,07-Sep-2012
"Avg Diam   ", 1.265234
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	33.1,	21.5,	48,	1.3503	,07:25:40 ,07-Sep-2012
2,	34.8,	21.4,	55,	1.7283	,07:29:40 ,07-Sep-2012
3,	35.7,	21.4,	59,	1.6953	,07:33:40 ,07-Sep-2012
4,	35.9,	21.3,	61,	1.9097	,07:37:40 ,07-Sep-2012
5,	41.9,	21.2,	62,	2.8724	,07:41:40 ,07-Sep-2012
6,	46.1,	21.2,	64,	3.6625	,07:45:40 ,07-Sep-2012
7,	41.4,	21.1,	65,	2.7995	,07:49:40 ,07-Sep-2012
8,	35.7,	21.1,	66,	1.8190	,07:53:40 ,07-Sep-2012
9,	41.8,	21.1,	66,	2.8295	,07:57:40 ,07-Sep-2012
10,	43.8,	21.1,	67,	3.4523	,08:01:40 ,07-Sep-2012
11,	36.7,	21.0,	68,	2.1078	,08:05:40 ,07-Sep-2012
12,	32.3,	21.1,	68,	1.6918	,08:09:40 ,07-Sep-2012
13,	28.4,	21.1,	68,	1.4629	,08:13:40 ,07-Sep-2012
14,	28.2,	21.2,	69,	1.4918	,08:17:40 ,07-Sep-2012
15,	28.9,	21.3,	69,	1.3795	,08:21:40 ,07-Sep-2012
16,	28.6,	21.4,	69,	1.5274	,08:25:40 ,07-Sep-2012
17,	27.2,	21.5,	69,	1.4746	,08:29:40 ,07-Sep-2012
18,	27.0,	21.5,	69,	1.4873	,08:33:40 ,07-Sep-2012
19,	29.2,	21.6,	69,	1.7018	,08:37:40 ,07-Sep-2012
20,	26.7,	21.7,	69,	1.5601	,08:41:40 ,07-Sep-2012
21,	28.2,	21.9,	69,	1.4875	,08:45:40 ,07-Sep-2012
22,	26.3,	22.0,	69,	1.4280	,08:49:40 ,07-Sep-2012
23,	25.5,	22.1,	69,	1.3929	,08:53:40 ,07-Sep-2012
24,	25.1,	22.2,	69,	1.2801	,08:57:40 ,07-Sep-2012
25,	24.5,	22.4,	69,	1.3991	,09:01:40 ,07-Sep-2012
26,	24.3,	22.5,	69,	1.3728	,09:05:40 ,07-Sep-2012
27,	22.8,	22.7,	69,	1.1528	,09:09:40 ,07-Sep-2012
28,	22.3,	22.9,	68,	1.2445	,09:13:40 ,07-Sep-2012
29,	22.7,	23.1,	68,	1.2901	,09:17:40 ,07-Sep-2012
30,	20.8,	23.4,	67,	1.1350	,09:21:40 ,07-Sep-2012
31,	20.3,	23.6,	67,	1.2267	,09:25:40 ,07-Sep-2012
32,	19.8,	23.9,	66,	1.1370	,09:29:40 ,07-Sep-2012
33,	19.5,	24.1,	65,	1.0680	,09:33:40 ,07-Sep-2012
34,	18.2,	24.4,	64,	1.1145	,09:37:40 ,07-Sep-2012
35,	17.7,	24.7,	63,	1.0315	,09:41:40 ,07-Sep-2012
36,	16.8,	25.1,	63,	0.9878	,09:45:40 ,07-Sep-2012
37,	16.6,	25.7,	62,	1.0168	,09:49:40 ,07-Sep-2012
38,	16.3,	26.4,	61,	0.9998	,09:53:40 ,07-Sep-2012
39,	16.5,	26.7,	60,	1.0311	,09:57:40 ,07-Sep-2012
40,	16.1,	27.0,	59,	0.9932	,10:01:40 ,07-Sep-2012
41,	16.5,	27.3,	58,	0.9986	,10:05:40 ,07-Sep-2012
42,	16.0,	27.6,	57,	1.0181	,10:09:40 ,07-Sep-2012

43,	15.6,	28.0,	56,	0.9609	,10:13:40	,07-Sep-2012
44,	15.0,	28.2,	55,	0.9450	,10:17:40	,07-Sep-2012
45,	14.7,	28.1,	54,	0.9260	,10:21:40	,07-Sep-2012
46,	14.2,	28.4,	53,	0.8922	,10:25:40	,07-Sep-2012
47,	14.4,	28.8,	51,	0.9811	,10:29:40	,07-Sep-2012
48,	14.1,	29.2,	50,	0.8960	,10:33:40	,07-Sep-2012
49,	15.3,	29.6,	50,	0.9770	,10:37:40	,07-Sep-2012
50,	14.6,	30.0,	49,	0.9481	,10:41:40	,07-Sep-2012
51,	13.7,	30.7,	48,	0.9285	,10:45:40	,07-Sep-2012
52,	13.7,	31.0,	47,	0.9235	,10:49:40	,07-Sep-2012
53,	13.6,	31.3,	46,	0.9003	,10:53:40	,07-Sep-2012
54,	13.4,	31.5,	45,	0.9171	,10:57:40	,07-Sep-2012
55,	12.6,	31.8,	44,	0.9306	,11:01:40	,07-Sep-2012
56,	12.8,	32.0,	43,	0.9654	,11:05:40	,07-Sep-2012
57,	12.6,	32.2,	43,	1.0397	,11:09:40	,07-Sep-2012
58,	13.2,	32.5,	42,	1.0370	,11:13:40	,07-Sep-2012
59,	11.5,	32.7,	41,	0.8792	,11:17:40	,07-Sep-2012
60,	11.8,	32.9,	40,	0.9885	,11:21:40	,07-Sep-2012
61,	13.4,	33.1,	40,	0.8713	,11:25:40	,07-Sep-2012
62,	13.9,	33.4,	39,	1.0697	,11:29:40	,07-Sep-2012
63,	12.3,	33.6,	39,	0.8990	,11:33:40	,07-Sep-2012
64,	13.0,	33.8,	39,	1.0088	,11:37:40	,07-Sep-2012
65,	12.9,	34.1,	38,	1.1154	,11:41:40	,07-Sep-2012
66,	14.0,	34.3,	38,	1.1401	,11:45:40	,07-Sep-2012
67,	13.2,	34.6,	37,	1.0506	,11:49:40	,07-Sep-2012
68,	13.4,	34.8,	36,	0.9365	,11:53:40	,07-Sep-2012
69,	12.8,	35.0,	36,	1.0720	,11:57:40	,07-Sep-2012
70,	15.2,	35.3,	35,	1.2889	,12:01:40	,07-Sep-2012
71,	14.9,	35.5,	34,	1.4085	,12:05:40	,07-Sep-2012
72,	13.0,	35.7,	34,	1.1699	,12:09:40	,07-Sep-2012
73,	13.6,	36.0,	33,	1.0667	,12:13:40	,07-Sep-2012
74,	11.9,	36.1,	33,	1.0990	,12:17:40	,07-Sep-2012
75,	13.1,	36.2,	33,	1.0981	,12:21:40	,07-Sep-2012
76,	13.6,	36.4,	32,	1.2637	,12:25:40	,07-Sep-2012
77,	12.6,	36.5,	32,	1.2282	,12:29:40	,07-Sep-2012
78,	13.3,	36.6,	32,	1.2456	,12:33:40	,07-Sep-2012
79,	12.3,	36.6,	32,	0.9865	,12:37:40	,07-Sep-2012
80,	12.3,	36.7,	32,	0.9773	,12:41:40	,07-Sep-2012
81,	13.8,	36.7,	31,	1.1066	,12:45:40	,07-Sep-2012
82,	14.3,	36.8,	32,	1.2108	,12:49:40	,07-Sep-2012
83,	13.5,	36.8,	32,	1.0398	,12:53:40	,07-Sep-2012
84,	13.5,	36.8,	32,	0.9650	,12:57:40	,07-Sep-2012
85,	14.0,	36.8,	32,	1.0327	,13:01:40	,07-Sep-2012
86,	13.5,	36.9,	32,	1.0048	,13:05:40	,07-Sep-2012
87,	14.0,	36.9,	32,	0.9926	,13:09:40	,07-Sep-2012
88,	18.8,	36.9,	32,	1.1498	,13:13:40	,07-Sep-2012
89,	15.0,	36.9,	32,	1.0827	,13:17:40	,07-Sep-2012
90,	15.6,	36.9,	33,	0.9408	,13:21:40	,07-Sep-2012
91,	16.5,	36.9,	33,	0.9881	,13:25:40	,07-Sep-2012
92,	15.7,	36.9,	33,	0.8687	,13:29:40	,07-Sep-2012
93,	15.6,	36.9,	33,	0.8633	,13:33:40	,07-Sep-2012
94,	14.8,	36.8,	33,	0.8453	,13:37:40	,07-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/10/2012

CLIENT: NL Industries

WEATHER: 65° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

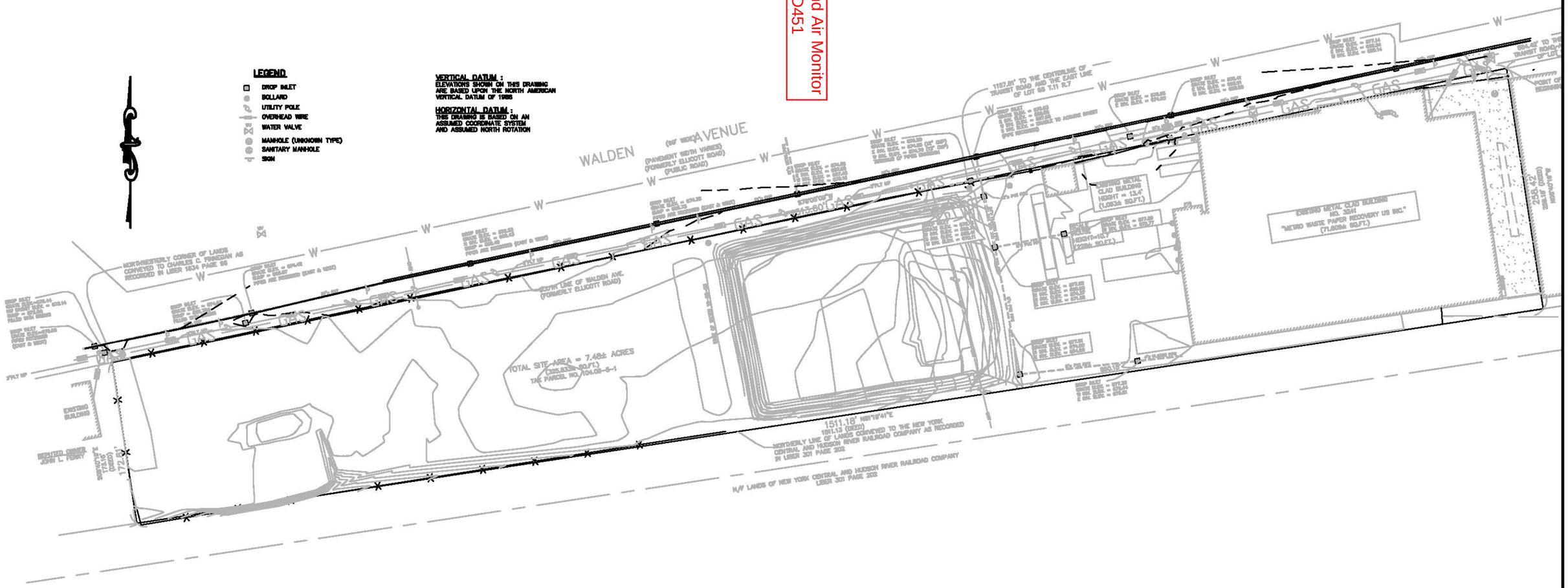
PROGRESS OF WORK:

ERI Began placing topsoil at the western end of the Site. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. ERI continued installing the stakes in the pavers in the western portion of the Site working ahead of topsoil placement.

AGC performed air monitoring during topsoil moving activities. No exceedences to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report. AGC advised ERI as to grading along the fence line per discussion with EPA and the engineer.

Field Representative: David Benson

Downwind Air Monitor
Serial # D451



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 7
"Start Time ", 07:09:36
"Start Date ", 10-Sep-2012
"Log Period ", 00:04:00
"Number   ", 122
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 28.828290
"Max MASS @ ", 1 ,07:13:36 ,10-Sep-2012
"Avg MASS   ", 4.066942
"Max Diam   ", 4.117013
"Max Diam @ ", 6 ,07:33:36 ,10-Sep-2012
"Avg Diam   ", 1.128103
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1	28.8	20.0	50	2.3059	,07:13:36	,10-Sep-2012
2	19.4	19.6	51	2.8874	,07:17:36	,10-Sep-2012
3	7.1	19.3	53	2.5593	,07:21:36	,10-Sep-2012
4	6.7	19.0	53	2.0069	,07:25:36	,10-Sep-2012
5	8.4	18.9	54	3.0496	,07:29:36	,10-Sep-2012
6	11.3	18.7	55	4.1170	,07:33:36	,10-Sep-2012
7	9.6	18.6	56	3.3727	,07:37:36	,10-Sep-2012
8	7.4	18.5	56	3.1969	,07:41:36	,10-Sep-2012
9	6.8	18.5	57	2.3504	,07:45:36	,10-Sep-2012
10	7.1	18.5	57	2.7424	,07:49:36	,10-Sep-2012
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110,        3.9,  27.0,   25,   1.3335  ,15:04:29  ,10-Sep-2012
111,        3.0,  26.9,   25,   1.0085  ,15:08:29  ,10-Sep-2012
```

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/11/2012

CLIENT: NL Industries

WEATHER: 73° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

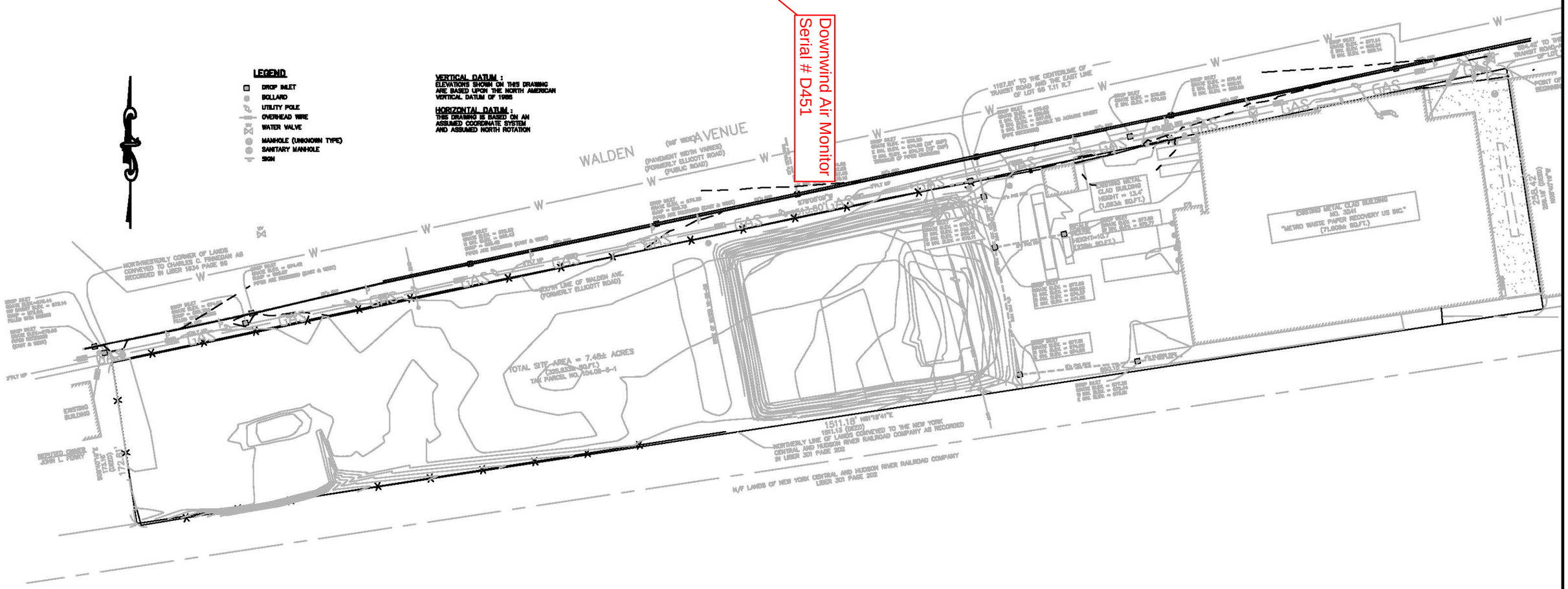
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI continued placing topsoil at the western end of the Site working east. Dust suppression was performed via a water tank and hose throughout soil disturbance activities. ERI continued installing the stakes in the pavers in the western portion of the Site working ahead of topsoil placement.

AGC performed air monitoring during topsoil moving activities. No exceedances to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report. AGC advised ERI as to grading along the fence line per discussion with EPA and the engineer.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D603   "
"Device no. ", 1
"Tag Number ", 7
"Start Time ", 07:57:17
"Start Date ", 11-Sep-2012
"Log Period ", 00:04:00
"Number   ", 37
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 16.072760
"Max MASS @ ", 3 ,08:09:17 ,11-Sep-2012
"Avg MASS   ", 7.514888
"Max Diam   ", 2.033172
"Max Diam @ ", 3 ,08:09:17 ,11-Sep-2012
"Avg Diam   ", 1.097144
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	11.4,	11.7,	34,	1.2689	,08:01:17	,11-Sep-2012
2,	11.6,	11.9,	45,	1.4294	,08:05:17	,11-Sep-2012
3,	16.1,	12.1,	52,	2.0332	,08:09:17	,11-Sep-2012
4,	9.7,	12.3,	56,	1.7352	,08:13:17	,11-Sep-2012
5,	8.6,	12.6,	59,	1.1281	,08:17:17	,11-Sep-2012
6,	9.1,	12.9,	61,	1.6645	,08:21:17	,11-Sep-2012
7,	8.0,	13.3,	63,	1.1434	,08:25:17	,11-Sep-2012
8,	7.5,	13.6,	64,	1.2485	,08:29:17	,11-Sep-2012
9,	7.1,	14.1,	65,	1.3628	,08:33:17	,11-Sep-2012
10,	7.2,	14.5,	65,	1.3166	,08:37:17	,11-Sep-2012
11,	7.2,	15.0,	65,	1.3243	,08:41:17	,11-Sep-2012
12,	7.0,	15.5,	65,	1.0998	,08:45:17	,11-Sep-2012
13,	7.8,	16.0,	65,	1.5312	,08:49:17	,11-Sep-2012
14,	6.6,	16.4,	64,	1.0946	,08:53:17	,11-Sep-2012
15,	6.6,	16.8,	64,	0.8533	,08:57:17	,11-Sep-2012
16,	6.0,	17.1,	64,	0.7178	,09:01:17	,11-Sep-2012
17,	6.7,	17.5,	63,	0.7774	,09:05:17	,11-Sep-2012
18,	8.0,	17.7,	63,	1.1292	,09:09:17	,11-Sep-2012
19,	6.8,	18.0,	62,	0.9798	,09:13:17	,11-Sep-2012
20,	6.6,	18.2,	62,	1.0318	,09:17:17	,11-Sep-2012
21,	7.9,	18.4,	62,	1.4526	,09:21:17	,11-Sep-2012
22,	6.6,	18.6,	62,	0.8445	,09:25:17	,11-Sep-2012
23,	6.7,	18.8,	61,	0.8208	,09:29:17	,11-Sep-2012
24,	8.9,	19.1,	61,	0.9300	,09:33:17	,11-Sep-2012
25,	6.3,	19.4,	60,	0.7252	,09:37:17	,11-Sep-2012
26,	6.4,	19.6,	60,	0.7756	,09:41:17	,11-Sep-2012
27,	8.4,	19.9,	59,	1.7075	,09:45:17	,11-Sep-2012
28,	6.6,	20.1,	59,	0.9566	,09:49:17	,11-Sep-2012
29,	5.6,	20.4,	59,	0.6850	,09:53:17	,11-Sep-2012
30,	5.3,	20.6,	58,	0.6229	,09:57:17	,11-Sep-2012
31,	5.4,	20.8,	58,	0.7632	,10:01:17	,11-Sep-2012
32,	5.7,	21.1,	57,	0.7173	,10:05:17	,11-Sep-2012
33,	5.7,	21.2,	56,	0.7856	,10:09:17	,11-Sep-2012
34,	6.2,	21.5,	56,	0.8691	,10:13:17	,11-Sep-2012
35,	6.1,	21.7,	56,	0.8493	,10:17:17	,11-Sep-2012
36,	6.2,	22.0,	55,	0.7730	,10:21:17	,11-Sep-2012
37,	8.5,	22.2,	54,	1.4465	,10:25:17	,11-Sep-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 6
"Start Time ", 08:02:05
"Start Date ", 11-Sep-2012
"Log Period ", 00:04:00
"Number   ", 100
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 13.600250
"Max MASS @ ", 2 ,08:10:05 ,11-Sep-2012
"Avg MASS   ", 6.091656
"Max Diam   ", 2.391423
"Max Diam @ ", 2 ,08:10:05 ,11-Sep-2012
"Avg Diam   ", 0.807664
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	12.1,	10.8,	32,	1.7368	,08:06:05	,11-Sep-2012
2,	13.6,	11.0,	43,	2.3914	,08:10:05	,11-Sep-2012
3,	11.4,	11.2,	50,	1.7261	,08:14:05	,11-Sep-2012
4,	9.9,	11.4,	55,	1.1725	,08:18:05	,11-Sep-2012
5,	10.4,	11.6,	58,	1.2690	,08:22:05	,11-Sep-2012
6,	8.4,	11.8,	61,	0.9229	,08:26:05	,11-Sep-2012
7,	7.8,	12.1,	63,	0.8280	,08:30:05	,11-Sep-2012
8,	7.8,	12.3,	64,	0.7791	,08:34:05	,11-Sep-2012
9,	6.5,	12.7,	66,	0.7157	,08:38:05	,11-Sep-2012
10,	7.4,	13.0,	66,	0.8443	,08:42:05	,11-Sep-2012
11,	9.3,	13.4,	67,	1.1871	,08:46:05	,11-Sep-2012
12,	7.1,	13.7,	67,	0.8102	,08:50:05	,11-Sep-2012
13,	7.2,	14.0,	67,	0.9091	,08:54:05	,11-Sep-2012
14,	7.1,	14.3,	67,	0.9140	,08:58:05	,11-Sep-2012
15,	6.9,	14.6,	68,	0.9305	,09:02:05	,11-Sep-2012
16,	6.6,	14.8,	68,	0.7809	,09:06:05	,11-Sep-2012
17,	7.0,	15.0,	67,	0.7746	,09:10:05	,11-Sep-2012
18,	6.8,	15.2,	67,	0.7786	,09:14:05	,11-Sep-2012
19,	7.6,	15.5,	67,	1.1302	,09:18:05	,11-Sep-2012
20,	7.3,	15.6,	67,	0.9996	,09:22:05	,11-Sep-2012
21,	6.8,	15.9,	67,	0.8596	,09:26:05	,11-Sep-2012
22,	7.4,	16.1,	67,	0.9521	,09:30:05	,11-Sep-2012
23,	6.2,	16.3,	67,	0.7276	,09:34:05	,11-Sep-2012
24,	6.2,	16.6,	67,	0.7526	,09:38:05	,11-Sep-2012
25,	6.4,	16.8,	66,	0.8337	,09:42:05	,11-Sep-2012
26,	8.5,	17.0,	66,	1.5652	,09:46:05	,11-Sep-2012
27,	6.1,	17.3,	66,	0.7737	,09:50:05	,11-Sep-2012
28,	5.8,	17.5,	66,	0.6953	,09:54:05	,11-Sep-2012
29,	5.4,	17.7,	65,	0.6490	,09:58:05	,11-Sep-2012
30,	5.9,	17.9,	65,	0.7249	,10:02:05	,11-Sep-2012
31,	6.9,	18.1,	64,	0.8660	,10:06:05	,11-Sep-2012
32,	5.5,	18.3,	64,	0.6204	,10:10:05	,11-Sep-2012
33,	5.9,	18.5,	64,	0.7136	,10:14:05	,11-Sep-2012
34,	5.1,	18.7,	63,	0.6421	,10:18:05	,11-Sep-2012
35,	5.8,	19.0,	63,	0.6971	,10:22:05	,11-Sep-2012
36,	7.7,	19.2,	62,	1.1512	,10:26:05	,11-Sep-2012
37,	7.8,	19.4,	61,	1.0845	,10:30:05	,11-Sep-2012
38,	5.4,	19.7,	61,	0.7079	,10:34:05	,11-Sep-2012
39,	5.3,	19.9,	60,	0.6284	,10:38:05	,11-Sep-2012
40,	5.2,	20.1,	60,	0.6265	,10:42:05	,11-Sep-2012
41,	8.5,	20.4,	59,	0.8869	,10:46:05	,11-Sep-2012
42,	6.3,	20.6,	58,	0.8261	,10:50:05	,11-Sep-2012

43,	5.5,	20.8,	58,	0.7023	,10:54:05	,11-Sep-2012
44,	6.4,	21.1,	58,	0.9445	,10:58:05	,11-Sep-2012
45,	6.8,	21.3,	58,	0.7829	,11:02:05	,11-Sep-2012
46,	5.1,	21.6,	57,	0.6956	,11:06:05	,11-Sep-2012
47,	5.1,	21.9,	56,	0.7120	,11:10:05	,11-Sep-2012
48,	4.8,	22.2,	56,	0.6358	,11:14:05	,11-Sep-2012
49,	5.1,	22.5,	55,	0.9337	,11:18:05	,11-Sep-2012
50,	4.7,	22.8,	54,	0.6145	,11:22:05	,11-Sep-2012
51,	4.7,	23.1,	54,	0.5919	,11:26:05	,11-Sep-2012
52,	5.6,	23.4,	53,	0.6477	,11:30:05	,11-Sep-2012
53,	5.6,	23.7,	52,	0.5795	,11:34:05	,11-Sep-2012
54,	5.3,	23.9,	52,	0.7002	,11:38:05	,11-Sep-2012
55,	5.0,	24.1,	51,	0.6367	,11:42:05	,11-Sep-2012
56,	6.0,	24.4,	50,	0.7724	,11:46:05	,11-Sep-2012
57,	7.6,	24.6,	49,	1.5322	,11:50:05	,11-Sep-2012
58,	9.0,	24.6,	48,	1.5675	,11:54:05	,11-Sep-2012
59,	8.1,	24.7,	48,	1.2700	,11:58:05	,11-Sep-2012
60,	5.9,	24.8,	48,	0.7618	,12:02:05	,11-Sep-2012
61,	4.4,	24.9,	47,	0.5442	,12:06:05	,11-Sep-2012
62,	4.6,	25.0,	47,	0.6612	,12:10:05	,11-Sep-2012
63,	3.7,	25.0,	47,	0.5033	,12:14:05	,11-Sep-2012
64,	4.2,	25.0,	47,	0.6392	,12:18:05	,11-Sep-2012
65,	4.1,	25.1,	47,	0.5807	,12:22:05	,11-Sep-2012
66,	5.0,	25.1,	46,	0.7335	,12:26:05	,11-Sep-2012
67,	4.9,	25.2,	46,	0.5778	,12:30:05	,11-Sep-2012
68,	4.5,	25.3,	46,	0.5815	,12:34:05	,11-Sep-2012
69,	3.9,	25.4,	46,	0.6127	,12:38:05	,11-Sep-2012
70,	3.8,	25.4,	45,	0.5390	,12:42:05	,11-Sep-2012
71,	4.6,	25.5,	45,	0.7255	,12:46:05	,11-Sep-2012
72,	4.5,	25.6,	45,	0.7536	,12:50:05	,11-Sep-2012
73,	6.4,	25.7,	44,	0.8766	,12:54:05	,11-Sep-2012
74,	5.1,	25.8,	44,	0.6672	,12:58:05	,11-Sep-2012
75,	4.6,	25.8,	43,	0.6112	,13:02:05	,11-Sep-2012
76,	4.0,	25.8,	43,	0.5940	,13:06:05	,11-Sep-2012
77,	6.0,	25.8,	43,	1.0084	,13:10:05	,11-Sep-2012
78,	4.2,	25.9,	43,	0.5446	,13:14:05	,11-Sep-2012
79,	10.4,	26.0,	42,	0.6811	,13:18:05	,11-Sep-2012
80,	3.9,	26.0,	42,	0.4955	,13:22:05	,11-Sep-2012
81,	3.9,	26.1,	42,	0.4439	,13:26:05	,11-Sep-2012
82,	4.5,	26.2,	41,	0.5487	,13:30:05	,11-Sep-2012
83,	4.3,	26.3,	41,	0.5292	,13:34:05	,11-Sep-2012
84,	4.8,	26.4,	40,	0.6073	,13:38:05	,11-Sep-2012
85,	5.5,	26.4,	39,	0.9041	,13:42:05	,11-Sep-2012
86,	4.9,	26.4,	40,	0.6037	,13:46:05	,11-Sep-2012
87,	5.1,	26.4,	39,	0.7435	,13:50:05	,11-Sep-2012
88,	4.5,	26.5,	39,	0.5819	,13:54:05	,11-Sep-2012
89,	4.0,	26.5,	39,	0.5326	,13:58:05	,11-Sep-2012
90,	4.2,	26.6,	39,	0.6481	,14:02:05	,11-Sep-2012
91,	4.2,	26.7,	39,	0.5314	,14:06:05	,11-Sep-2012
92,	4.4,	26.7,	38,	0.5881	,14:10:05	,11-Sep-2012
93,	5.1,	26.8,	38,	0.6838	,14:14:05	,11-Sep-2012
94,	6.3,	26.9,	38,	0.9855	,14:18:05	,11-Sep-2012
95,	7.3,	27.0,	37,	1.0469	,14:22:05	,11-Sep-2012
96,	5.1,	27.0,	37,	0.5428	,14:26:05	,11-Sep-2012
97,	4.8,	27.1,	37,	0.6997	,14:30:05	,11-Sep-2012
98,	5.9,	27.1,	37,	0.8146	,14:34:05	,11-Sep-2012
99,	4.9,	27.2,	37,	0.6356	,14:38:05	,11-Sep-2012
100,	4.0,	27.2,	36,	0.4978	,14:42:05	,11-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/12/2012

CLIENT: NL Industries

WEATHER: 79° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

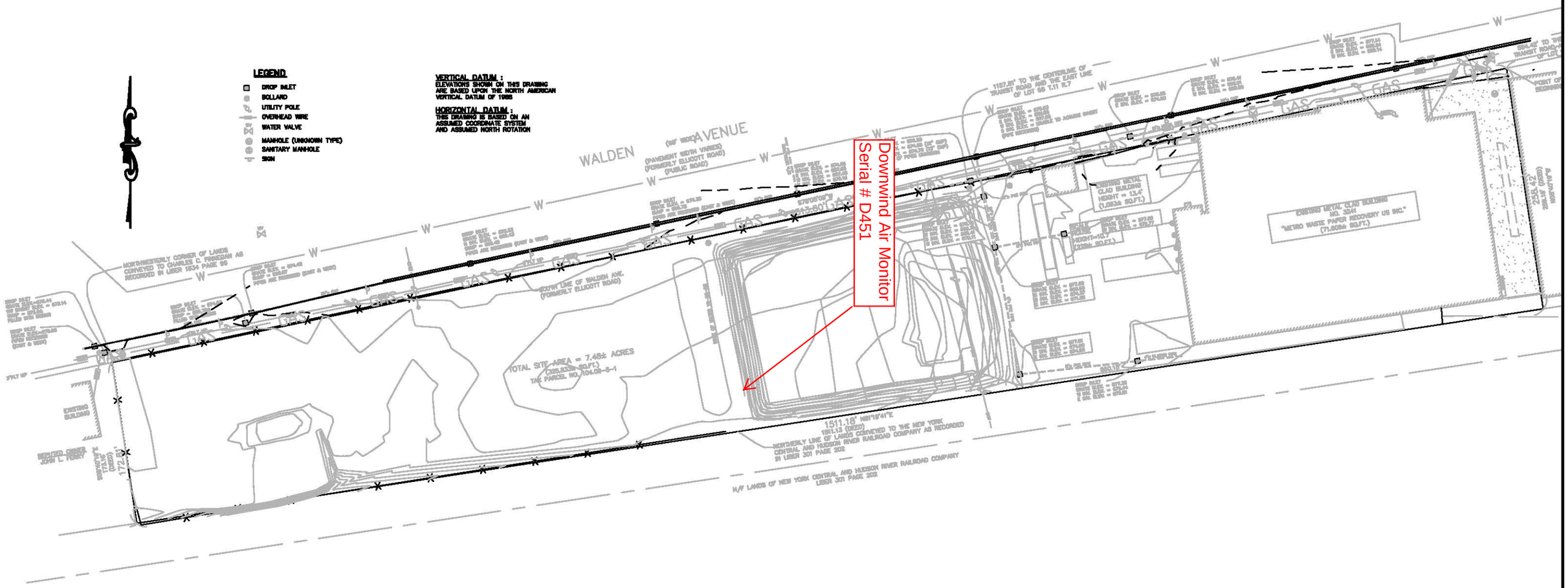
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI prepared and hydro-seeded the topsoil at the western end of the Site working east approximately half the distance to the truck entrances. ERI completed excavation at the truck entrance. The excavation allowed for approximately two inches of stone to be placed under the pavers for additional strength. ERI continued installing the stakes in the pavers in the western portion of the Site working ahead of topsoil placement.

AGC performed air monitoring during excavation activities. No exceedances to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.
Chris Reitman was onsite.

Field Representative: David Benson



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WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D563   "
"Device no. ", 1
"Tag Number ", 0
"Start Time ", 07:14:28
"Start Date ", 12-Sep-2012
"Log Period ", 00:04:00
"Number   ", 132
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 10.363760
"Max MASS @ ", 3 ,07:26:28 ,12-Sep-2012
"Avg MASS   ", 4.419176
"Max Diam   ", 1.562419
"Max Diam @ ", 36 ,09:38:28 ,12-Sep-2012
"Avg Diam   ", 0.511748
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter		
1,	8.0,	12.6,	52,	0.5003	,07:18:28	,12-Sep-2012
2,	9.0,	12.6,	55,	0.6253	,07:22:28	,12-Sep-2012
3,	10.4,	12.6,	57,	0.8275	,07:26:28	,12-Sep-2012
4,	9.0,	12.6,	58,	0.6982	,07:30:28	,12-Sep-2012
5,	8.3,	12.6,	59,	0.6335	,07:34:28	,12-Sep-2012
6,	7.9,	12.6,	60,	0.5573	,07:38:28	,12-Sep-2012
7,	9.7,	12.7,	61,	0.6658	,07:42:28	,12-Sep-2012
8,	9.5,	12.7,	61,	0.6729	,07:46:28	,12-Sep-2012
9,	9.1,	12.8,	62,	0.6784	,07:50:28	,12-Sep-2012
10,	8.7,	12.9,	62,	0.5916	,07:54:28	,12-Sep-2012
11,	8.5,	13.0,	63,	0.5852	,07:58:28	,12-Sep-2012
12,	9.5,	13.1,	63,	0.6697	,08:02:28	,12-Sep-2012
13,	8.7,	13.3,	63,	0.5889	,08:06:28	,12-Sep-2012
14,	8.8,	13.5,	64,	0.6416	,08:10:28	,12-Sep-2012
15,	9.3,	13.6,	63,	0.7720	,08:14:28	,12-Sep-2012
16,	9.2,	13.9,	63,	0.7392	,08:18:28	,12-Sep-2012
17,	8.0,	14.1,	63,	0.6918	,08:22:28	,12-Sep-2012
18,	7.1,	14.3,	63,	0.6345	,08:26:28	,12-Sep-2012
19,	6.8,	14.6,	62,	0.5673	,08:30:28	,12-Sep-2012
20,	6.2,	14.9,	62,	0.4983	,08:34:28	,12-Sep-2012
21,	5.8,	15.2,	62,	0.4955	,08:38:28	,12-Sep-2012
22,	5.9,	15.5,	61,	0.5206	,08:42:28	,12-Sep-2012
23,	5.3,	15.8,	60,	0.4552	,08:46:28	,12-Sep-2012
24,	5.4,	16.2,	60,	0.4575	,08:50:28	,12-Sep-2012
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26,	5.2,	16.9,	59,	0.4912	,08:58:28	,12-Sep-2012
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28,	4.9,	17.6,	57,	0.4487	,09:06:28	,12-Sep-2012
29,	4.8,	18.0,	57,	0.4596	,09:10:28	,12-Sep-2012
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37,	3.9,	21.4,	51,	0.5139	,09:42:28	,12-Sep-2012
38,	3.6,	21.8,	50,	0.5134	,09:46:28	,12-Sep-2012
39,	3.8,	22.2,	49,	0.5404	,09:50:28	,12-Sep-2012
40,	3.7,	22.6,	48,	0.4879	,09:54:28	,12-Sep-2012
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44,	3.6,	24.0,	44,	0.5481	,10:10:28	,12-Sep-2012
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74,	3.0,	30.9,	30,	0.4541	,12:10:28	,12-Sep-2012
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105,	3.1,	32.6,	26,	0.4718	,14:14:28	,12-Sep-2012
106,	3.1,	32.7,	26,	0.4613	,14:18:28	,12-Sep-2012
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108,	3.0,	32.9,	26,	0.4646	,14:26:28	,12-Sep-2012
109,	3.3,	33.0,	26,	0.4985	,14:30:28	,12-Sep-2012

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118,	3.6,	33.1,	25,	0.4602	,15:06:28	,12-Sep-2012
119,	2.9,	33.0,	25,	0.4643	,15:10:28	,12-Sep-2012
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122,	3.4,	33.0,	25,	0.4789	,15:22:28	,12-Sep-2012
123,	3.0,	33.0,	26,	0.4125	,15:26:28	,12-Sep-2012
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126,	2.7,	33.0,	26,	0.3672	,15:38:28	,12-Sep-2012
127,	3.2,	33.0,	26,	0.4114	,15:42:28	,12-Sep-2012
128,	3.4,	33.0,	26,	0.4987	,15:46:28	,12-Sep-2012
129,	3.0,	33.0,	26,	0.4270	,15:50:28	,12-Sep-2012
130,	3.3,	33.0,	26,	0.4558	,15:54:28	,12-Sep-2012
131,	2.8,	33.0,	26,	0.4170	,15:58:28	,12-Sep-2012
132,	3.1,	33.0,	26,	0.4222	,16:02:28	,12-Sep-2012

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"Avg Diam   ", 1.382333
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2,	9.9,	17.3,	47,	0.9716	,07:09:35 ,12-Sep-2012
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4,	12.1,	16.8,	50,	1.5285	,07:17:35 ,12-Sep-2012
5,	13.9,	16.6,	52,	1.8411	,07:21:35 ,12-Sep-2012
6,	13.1,	16.5,	53,	1.5620	,07:25:35 ,12-Sep-2012
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8,	14.8,	16.1,	54,	2.0140	,07:33:35 ,12-Sep-2012
9,	13.4,	16.0,	55,	1.6748	,07:37:35 ,12-Sep-2012
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11,	12.7,	15.7,	56,	1.2331	,07:45:35 ,12-Sep-2012
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109,	6.5,	33.1,	27,	0.5609	,14:17:35	,12-Sep-2012

110,	6.9,	33.0,	28,	0.6067	,14:21:35	,12-Sep-2012
111,	7.8,	32.8,	28,	0.8070	,14:25:35	,12-Sep-2012
112,	8.0,	32.7,	28,	1.0071	,14:29:35	,12-Sep-2012
113,	11.3,	32.6,	29,	1.9289	,14:33:35	,12-Sep-2012
114,	9.4,	32.4,	29,	1.4522	,14:37:35	,12-Sep-2012
115,	7.8,	32.2,	29,	0.9726	,14:41:35	,12-Sep-2012
116,	10.7,	32.1,	29,	1.6555	,14:45:35	,12-Sep-2012
117,	15.5,	32.0,	29,	3.3951	,14:49:35	,12-Sep-2012
118,	22.1,	31.8,	29,	2.7114	,14:53:35	,12-Sep-2012
119,	10.7,	31.7,	29,	1.3583	,14:57:35	,12-Sep-2012
120,	12.3,	31.7,	30,	2.1495	,15:01:35	,12-Sep-2012
121,	10.4,	31.7,	30,	1.2414	,15:05:35	,12-Sep-2012
122,	8.0,	31.7,	30,	1.0016	,15:09:35	,12-Sep-2012
123,	10.8,	31.7,	30,	1.0982	,15:13:35	,12-Sep-2012
124,	10.1,	31.7,	30,	1.4184	,15:17:35	,12-Sep-2012
125,	12.5,	31.8,	30,	1.8060	,15:21:35	,12-Sep-2012
126,	8.5,	31.9,	30,	1.0711	,15:25:35	,12-Sep-2012
127,	8.4,	32.1,	30,	1.0963	,15:29:35	,12-Sep-2012
128,	7.3,	32.3,	30,	0.7551	,15:33:35	,12-Sep-2012
129,	7.0,	32.5,	29,	0.5905	,15:37:35	,12-Sep-2012
130,	9.9,	32.6,	29,	1.2775	,15:41:35	,12-Sep-2012
131,	13.1,	32.7,	29,	1.4892	,15:45:35	,12-Sep-2012
132,	10.4,	32.9,	29,	1.5888	,15:49:35	,12-Sep-2012
133,	10.1,	33.1,	29,	1.3152	,15:53:35	,12-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/13/2012

CLIENT: NL Industries

WEATHER: 82° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

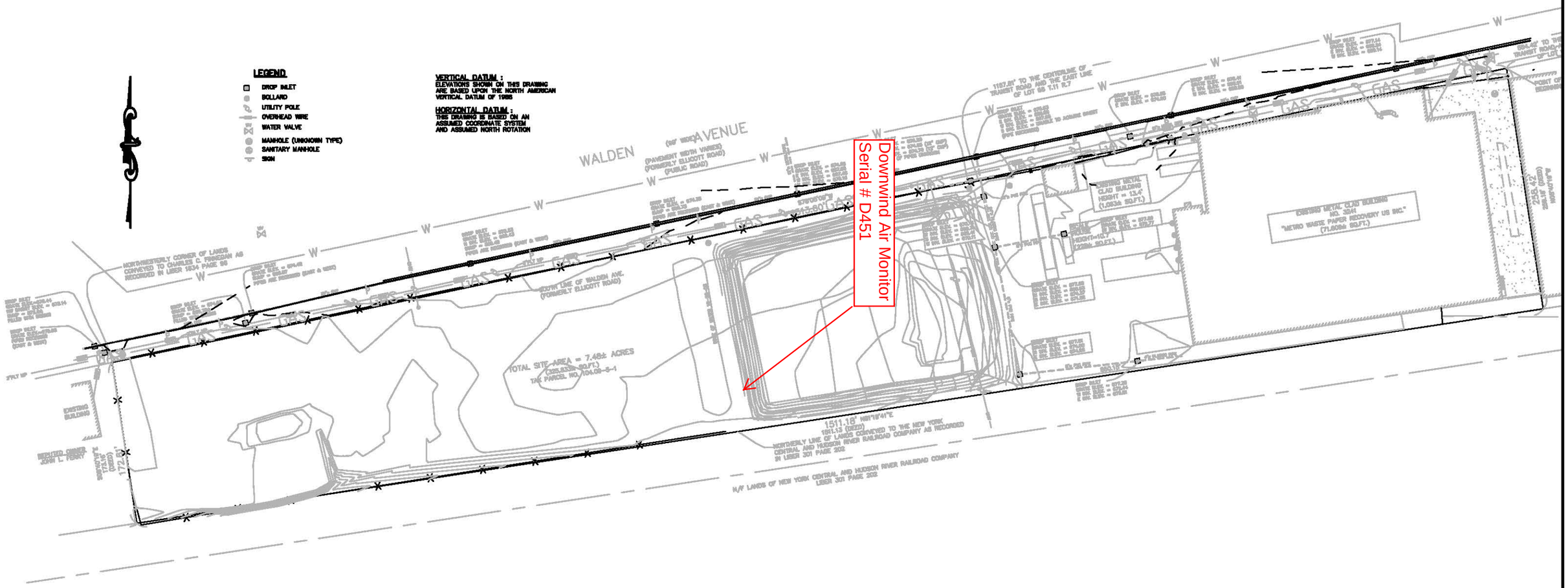
SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed installing Synteen SR18 and the pavers on the western portion of the Site. ERI completed placing topsoil on the remaining portions of the Site, and prepared and hydro-seeded the topsoil. ERI placed erosion control mat on the portions of the Site that were Hydro-seeded on 9-12-2012.

AGC performed air monitoring during topsoil placement activities. No exceedances to the action limit were observed. No visible dust was observed. Air monitoring data is attached to this report.
Chris Reitman was onsite. EPA was onsite. NYSDOT was onsite.

Field Representative: David Benson



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ADVANCED Geoservices Engineering P.C.
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tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com

WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D563   "
"Device no. ", 1
"Tag Number ", 1
"Start Time ", 07:20:20
"Start Date ", 13-Sep-2012
"Log Period ", 00:04:00
"Number   ", 109
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 34.387100
"Max MASS @ ", 2 ,07:28:20 ,13-Sep-2012
"Avg MASS   ", 10.443820
"Max Diam   ", 1.583355
"Max Diam @ ", 67 ,11:48:20 ,13-Sep-2012
"Avg Diam   ", 0.484162
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	29.7,	12.5,	36,	0.6690	,07:24:20 ,13-Sep-2012
2,	34.4,	12.6,	46,	0.7883	,07:28:20 ,13-Sep-2012
3,	32.5,	12.7,	51,	0.7032	,07:32:20 ,13-Sep-2012
4,	29.6,	12.8,	54,	0.6125	,07:36:20 ,13-Sep-2012
5,	30.1,	13.0,	56,	0.6288	,07:40:20 ,13-Sep-2012
6,	28.8,	13.1,	58,	0.6192	,07:44:20 ,13-Sep-2012
7,	27.9,	13.1,	59,	0.6176	,07:48:20 ,13-Sep-2012
8,	26.3,	13.2,	60,	0.6327	,07:52:20 ,13-Sep-2012
9,	25.3,	13.4,	61,	0.6197	,07:56:20 ,13-Sep-2012
10,	24.0,	13.5,	61,	0.6404	,08:00:20 ,13-Sep-2012
11,	23.8,	13.6,	62,	0.6845	,08:04:20 ,13-Sep-2012
12,	20.8,	13.8,	62,	0.5988	,08:08:20 ,13-Sep-2012
13,	16.6,	14.0,	63,	0.5318	,08:12:20 ,13-Sep-2012
14,	15.9,	14.2,	63,	0.5098	,08:16:20 ,13-Sep-2012
15,	13.8,	14.5,	64,	0.4896	,08:20:20 ,13-Sep-2012
16,	12.9,	14.8,	64,	0.4684	,08:24:20 ,13-Sep-2012
17,	13.6,	15.2,	64,	0.5561	,08:28:20 ,13-Sep-2012
18,	11.9,	15.5,	63,	0.4930	,08:32:20 ,13-Sep-2012
19,	12.4,	15.9,	63,	0.5223	,08:36:20 ,13-Sep-2012
20,	11.1,	16.3,	63,	0.5241	,08:40:20 ,13-Sep-2012
21,	11.4,	16.7,	62,	0.5672	,08:44:20 ,13-Sep-2012
22,	8.7,	17.1,	62,	0.4539	,08:48:20 ,13-Sep-2012
23,	8.7,	17.6,	62,	0.4597	,08:52:20 ,13-Sep-2012
24,	9.4,	18.0,	61,	0.5337	,08:56:20 ,13-Sep-2012
25,	8.5,	18.5,	60,	0.4797	,09:00:20 ,13-Sep-2012
26,	10.7,	18.9,	60,	0.4608	,09:04:20 ,13-Sep-2012
27,	9.8,	19.4,	59,	0.5786	,09:08:20 ,13-Sep-2012
28,	6.9,	19.9,	58,	0.4188	,09:12:20 ,13-Sep-2012
29,	7.5,	20.3,	57,	0.4699	,09:16:20 ,13-Sep-2012
30,	7.0,	20.8,	56,	0.4545	,09:20:20 ,13-Sep-2012
31,	6.3,	21.3,	55,	0.4027	,09:24:20 ,13-Sep-2012
32,	6.6,	21.8,	54,	0.4266	,09:28:20 ,13-Sep-2012
33,	5.9,	22.3,	53,	0.3985	,09:32:20 ,13-Sep-2012
34,	6.4,	22.7,	53,	0.4121	,09:36:20 ,13-Sep-2012
35,	5.9,	23.2,	52,	0.4127	,09:40:20 ,13-Sep-2012
36,	5.5,	23.6,	51,	0.3835	,09:44:20 ,13-Sep-2012
37,	6.0,	24.1,	50,	0.4120	,09:48:20 ,13-Sep-2012
38,	6.2,	24.5,	49,	0.4045	,09:52:20 ,13-Sep-2012
39,	6.7,	25.0,	48,	0.4513	,09:56:20 ,13-Sep-2012
40,	5.7,	25.4,	48,	0.3972	,10:00:20 ,13-Sep-2012
41,	6.4,	25.9,	47,	0.4568	,10:04:20 ,13-Sep-2012
42,	12.0,	26.4,	46,	0.8642	,10:08:20 ,13-Sep-2012

43,	6.3,	26.9,	45,	0.4676	,10:12:20	,13-Sep-2012
44,	5.4,	27.3,	44,	0.4070	,10:16:20	,13-Sep-2012
45,	5.4,	27.7,	43,	0.4135	,10:20:20	,13-Sep-2012
46,	6.9,	28.1,	42,	0.5224	,10:24:20	,13-Sep-2012
47,	6.8,	28.5,	41,	0.4620	,10:28:20	,13-Sep-2012
48,	7.4,	28.9,	40,	0.4943	,10:32:20	,13-Sep-2012
49,	6.3,	29.2,	40,	0.4298	,10:36:20	,13-Sep-2012
50,	7.9,	29.6,	39,	0.6191	,10:40:20	,13-Sep-2012
51,	5.2,	30.0,	38,	0.3847	,10:44:20	,13-Sep-2012
52,	5.7,	30.3,	38,	0.3986	,10:48:20	,13-Sep-2012
53,	6.8,	30.7,	37,	0.5130	,10:52:20	,13-Sep-2012
54,	5.4,	31.0,	36,	0.4003	,10:56:20	,13-Sep-2012
55,	5.5,	31.3,	36,	0.4177	,11:00:20	,13-Sep-2012
56,	7.5,	31.7,	35,	0.6028	,11:04:20	,13-Sep-2012
57,	7.6,	32.0,	34,	0.4956	,11:08:20	,13-Sep-2012
58,	5.8,	32.4,	34,	0.4006	,11:12:20	,13-Sep-2012
59,	5.5,	32.7,	33,	0.3876	,11:16:20	,13-Sep-2012
60,	5.2,	33.0,	33,	0.3768	,11:20:20	,13-Sep-2012
61,	4.9,	33.2,	32,	0.3757	,11:24:20	,13-Sep-2012
62,	5.5,	33.4,	32,	0.3909	,11:28:20	,13-Sep-2012
63,	5.7,	33.7,	32,	0.3767	,11:32:20	,13-Sep-2012
64,	5.1,	33.9,	31,	0.3885	,11:36:20	,13-Sep-2012
65,	5.3,	34.1,	31,	0.3647	,11:40:20	,13-Sep-2012
66,	6.1,	34.3,	31,	0.4180	,11:44:20	,13-Sep-2012
67,	21.4,	34.6,	30,	1.5834	,11:48:20	,13-Sep-2012
68,	12.8,	34.8,	30,	1.1582	,11:52:20	,13-Sep-2012
69,	9.8,	35.0,	30,	0.7074	,11:56:20	,13-Sep-2012
70,	8.0,	35.1,	29,	0.4194	,12:00:20	,13-Sep-2012
71,	5.5,	35.3,	29,	0.3226	,12:04:20	,13-Sep-2012
72,	6.1,	35.5,	29,	0.3598	,12:08:20	,13-Sep-2012
73,	11.9,	35.6,	29,	0.4904	,12:12:20	,13-Sep-2012
74,	6.5,	35.7,	28,	0.3537	,12:16:20	,13-Sep-2012
75,	8.9,	35.8,	28,	0.4941	,12:20:20	,13-Sep-2012
76,	6.7,	35.9,	28,	0.3693	,12:24:20	,13-Sep-2012
77,	6.4,	36.0,	28,	0.3422	,12:28:20	,13-Sep-2012
78,	7.2,	36.2,	28,	0.4077	,12:32:20	,13-Sep-2012
79,	10.7,	36.3,	27,	0.6735	,12:36:20	,13-Sep-2012
80,	6.8,	36.4,	27,	0.3379	,12:40:20	,13-Sep-2012
81,	8.2,	36.5,	27,	0.3907	,12:44:20	,13-Sep-2012
82,	7.1,	36.5,	27,	0.3383	,12:48:20	,13-Sep-2012
83,	9.6,	36.6,	27,	0.4754	,12:52:20	,13-Sep-2012
84,	7.1,	36.6,	27,	0.3377	,12:56:20	,13-Sep-2012
85,	7.0,	36.6,	27,	0.3238	,13:00:20	,13-Sep-2012
86,	7.1,	36.6,	27,	0.3382	,13:04:20	,13-Sep-2012
87,	7.4,	36.6,	27,	0.3389	,13:08:20	,13-Sep-2012
88,	7.0,	36.7,	26,	0.3211	,13:12:20	,13-Sep-2012
89,	10.1,	36.7,	26,	0.4746	,13:16:20	,13-Sep-2012
90,	8.1,	36.8,	26,	0.3694	,13:20:20	,13-Sep-2012
91,	7.3,	36.8,	26,	0.3515	,13:24:20	,13-Sep-2012
92,	6.8,	36.9,	26,	0.3035	,13:28:20	,13-Sep-2012
93,	7.0,	37.0,	26,	0.2954	,13:32:20	,13-Sep-2012
94,	7.7,	37.1,	26,	0.3432	,13:36:20	,13-Sep-2012
95,	7.2,	37.2,	26,	0.3150	,13:40:20	,13-Sep-2012
96,	9.4,	37.3,	26,	0.4630	,13:44:20	,13-Sep-2012
97,	16.9,	37.4,	26,	1.1317	,13:48:20	,13-Sep-2012
98,	12.3,	37.5,	26,	0.7737	,13:52:20	,13-Sep-2012
99,	10.2,	37.5,	25,	0.4819	,13:56:20	,13-Sep-2012
100,	11.4,	37.6,	25,	0.5336	,14:00:20	,13-Sep-2012
101,	10.7,	37.7,	25,	0.4361	,14:04:20	,13-Sep-2012
102,	9.8,	37.8,	25,	0.4325	,14:08:20	,13-Sep-2012
103,	8.1,	37.9,	25,	0.3702	,14:12:20	,13-Sep-2012
104,	13.5,	37.9,	24,	0.4622	,14:16:20	,13-Sep-2012
105,	7.7,	38.0,	24,	0.3313	,14:20:20	,13-Sep-2012
106,	7.5,	38.1,	24,	0.3271	,14:24:20	,13-Sep-2012
107,	7.4,	38.1,	24,	0.3085	,14:28:20	,13-Sep-2012
108,	7.7,	38.2,	24,	0.3433	,14:32:20	,13-Sep-2012
109,	7.5,	38.2,	24,	0.3257	,14:36:20	,13-Sep-2012

"Model Number", "DataRAM 4 ", 104
"Serial no. ", "D451   "
"Device no. ", 1
"Tag Number ", 8
"Start Time ", 07:24:28
"Start Date ", 13-Sep-2012
"Log Period ", 00:04:00
"Number   ", 94
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 48.732500
"Max MASS @ ", 4 ,07:40:28 ,13-Sep-2012
"Avg MASS   ", 16.183910
"Max Diam   ", 1.141659
"Max Diam @ ", 67 ,11:52:28 ,13-Sep-2012
"Avg Diam   ", 0.716636
"ALARM   ", "ENABLED"
"ALARM_LEVEL ", 70.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	38.6,	12.1,	35,	0.6941	,07:28:28 ,13-Sep-2012
2,	47.4,	12.2,	47,	0.7786	,07:32:28 ,13-Sep-2012
3,	48.6,	12.4,	54,	0.8304	,07:36:28 ,13-Sep-2012
4,	48.7,	12.5,	59,	0.8477	,07:40:28 ,13-Sep-2012
5,	45.8,	12.7,	62,	0.8193	,07:44:28 ,13-Sep-2012
6,	41.1,	12.9,	64,	0.7592	,07:48:28 ,13-Sep-2012
7,	38.9,	13.1,	66,	0.7526	,07:52:28 ,13-Sep-2012
8,	40.9,	13.3,	67,	0.7359	,07:56:28 ,13-Sep-2012
9,	35.8,	13.5,	69,	0.7434	,08:00:28 ,13-Sep-2012
10,	37.4,	13.8,	70,	0.8975	,08:04:28 ,13-Sep-2012
11,	30.4,	14.1,	71,	0.7977	,08:08:28 ,13-Sep-2012
12,	25.9,	14.4,	72,	0.6875	,08:12:28 ,13-Sep-2012
13,	21.6,	14.7,	72,	0.6580	,08:16:28 ,13-Sep-2012
14,	20.1,	15.0,	72,	0.6798	,08:20:28 ,13-Sep-2012
15,	18.5,	15.4,	72,	0.6612	,08:24:28 ,13-Sep-2012
16,	18.4,	15.7,	72,	0.7038	,08:28:28 ,13-Sep-2012
17,	18.8,	16.1,	72,	0.7419	,08:32:28 ,13-Sep-2012
18,	17.3,	16.5,	71,	0.6835	,08:36:28 ,13-Sep-2012
19,	16.0,	16.9,	71,	0.6730	,08:40:28 ,13-Sep-2012
20,	15.5,	17.3,	70,	0.7156	,08:44:28 ,13-Sep-2012
21,	14.5,	17.7,	70,	0.7308	,08:48:28 ,13-Sep-2012
22,	13.7,	18.1,	69,	0.7042	,08:52:28 ,13-Sep-2012
23,	14.8,	18.5,	68,	0.8186	,08:56:28 ,13-Sep-2012
24,	12.5,	18.9,	67,	0.6806	,09:00:28 ,13-Sep-2012
25,	12.3,	19.4,	67,	0.6583	,09:04:28 ,13-Sep-2012
26,	11.9,	19.8,	66,	0.7176	,09:08:28 ,13-Sep-2012
27,	11.4,	20.2,	65,	0.6249	,09:12:28 ,13-Sep-2012
28,	12.0,	20.7,	64,	0.6894	,09:16:28 ,13-Sep-2012
29,	10.6,	21.1,	63,	0.6354	,09:20:28 ,13-Sep-2012
30,	10.2,	21.5,	62,	0.6320	,09:24:28 ,13-Sep-2012
31,	10.2,	22.0,	60,	0.6661	,09:28:28 ,13-Sep-2012
32,	10.0,	22.4,	59,	0.6267	,09:32:28 ,13-Sep-2012
33,	9.7,	22.8,	58,	0.5755	,09:36:28 ,13-Sep-2012
34,	9.8,	23.2,	57,	0.6579	,09:40:28 ,13-Sep-2012
35,	10.1,	23.6,	56,	0.6379	,09:44:28 ,13-Sep-2012
36,	10.7,	24.0,	55,	0.7526	,09:48:28 ,13-Sep-2012
37,	10.6,	24.4,	54,	0.6821	,09:52:28 ,13-Sep-2012
38,	10.0,	24.7,	53,	0.6345	,09:56:28 ,13-Sep-2012
39,	10.5,	25.1,	52,	0.7244	,10:00:28 ,13-Sep-2012
40,	9.8,	25.4,	51,	0.6719	,10:04:28 ,13-Sep-2012
41,	10.4,	25.8,	50,	0.7075	,10:08:28 ,13-Sep-2012
42,	10.2,	26.1,	49,	0.7176	,10:12:28 ,13-Sep-2012

43,	10.2,	26.3,	48,	0.7119	,10:16:28	,13-Sep-2012
44,	10.2,	26.5,	47,	0.7694	,10:20:28	,13-Sep-2012
45,	10.5,	26.8,	47,	0.7706	,10:24:28	,13-Sep-2012
46,	10.4,	27.0,	46,	0.6742	,10:28:28	,13-Sep-2012
47,	10.8,	27.2,	45,	0.8387	,10:32:28	,13-Sep-2012
48,	10.3,	27.5,	45,	0.7084	,10:36:28	,13-Sep-2012
49,	10.5,	27.8,	44,	0.7349	,10:40:28	,13-Sep-2012
50,	10.2,	28.5,	44,	0.6631	,10:44:28	,13-Sep-2012
51,	10.5,	28.8,	44,	0.7434	,10:48:28	,13-Sep-2012
52,	10.4,	29.0,	43,	0.7113	,10:52:28	,13-Sep-2012
53,	10.9,	29.2,	43,	0.6927	,10:56:28	,13-Sep-2012
54,	11.9,	29.4,	42,	0.9436	,11:00:28	,13-Sep-2012
55,	10.2,	29.7,	42,	0.7324	,11:04:28	,13-Sep-2012
56,	10.5,	29.9,	41,	0.7607	,11:08:28	,13-Sep-2012
57,	11.1,	30.1,	41,	0.7413	,11:12:28	,13-Sep-2012
58,	10.8,	30.4,	40,	0.8072	,11:16:28	,13-Sep-2012
59,	10.3,	30.6,	40,	0.6653	,11:20:28	,13-Sep-2012
60,	11.0,	30.8,	40,	0.7479	,11:24:28	,13-Sep-2012
61,	10.5,	31.0,	39,	0.7467	,11:28:28	,13-Sep-2012
62,	11.0,	31.2,	39,	0.7773	,11:32:28	,13-Sep-2012
63,	10.8,	31.5,	38,	0.7094	,11:36:28	,13-Sep-2012
64,	12.4,	31.7,	38,	0.8170	,11:40:28	,13-Sep-2012
65,	11.2,	31.8,	38,	0.7162	,11:44:28	,13-Sep-2012
66,	11.6,	32.0,	37,	0.7259	,11:48:28	,13-Sep-2012
67,	14.3,	32.1,	37,	1.1417	,11:52:28	,13-Sep-2012
68,	13.6,	32.1,	37,	0.8475	,11:56:28	,13-Sep-2012
69,	11.8,	32.2,	36,	0.7729	,12:00:28	,13-Sep-2012
70,	11.9,	32.4,	36,	0.6363	,12:04:28	,13-Sep-2012
71,	12.9,	32.5,	36,	0.7292	,12:08:28	,13-Sep-2012
72,	13.1,	32.6,	36,	0.7120	,12:12:28	,13-Sep-2012
73,	13.7,	32.6,	36,	0.8342	,12:16:28	,13-Sep-2012
74,	12.5,	32.7,	35,	0.6922	,12:20:28	,13-Sep-2012
75,	14.5,	32.7,	35,	0.8008	,12:24:28	,13-Sep-2012
76,	13.1,	32.8,	35,	0.6696	,12:28:28	,13-Sep-2012
77,	12.8,	32.8,	35,	0.6934	,12:32:28	,13-Sep-2012
78,	13.7,	32.9,	35,	0.7773	,12:36:28	,13-Sep-2012
79,	13.2,	32.9,	35,	0.6384	,12:40:28	,13-Sep-2012
80,	14.7,	33.0,	35,	0.7321	,12:44:28	,13-Sep-2012
81,	13.7,	33.0,	35,	0.7023	,12:48:28	,13-Sep-2012
82,	13.6,	33.0,	35,	0.6492	,12:52:28	,13-Sep-2012
83,	13.4,	33.0,	35,	0.5743	,12:56:28	,13-Sep-2012
84,	13.4,	33.0,	35,	0.5733	,13:00:28	,13-Sep-2012
85,	13.9,	33.0,	35,	0.5919	,13:04:28	,13-Sep-2012
86,	13.9,	33.1,	34,	0.5949	,13:08:28	,13-Sep-2012
87,	14.6,	33.1,	34,	0.6249	,13:12:28	,13-Sep-2012
88,	14.7,	33.1,	34,	0.5928	,13:16:28	,13-Sep-2012
89,	14.4,	33.1,	34,	0.6183	,13:20:28	,13-Sep-2012
90,	14.8,	33.1,	34,	0.6053	,13:24:28	,13-Sep-2012
91,	15.2,	33.2,	35,	0.6415	,13:28:28	,13-Sep-2012
92,	16.0,	33.2,	34,	0.6755	,13:32:28	,13-Sep-2012
93,	15.9,	33.2,	34,	0.6898	,13:36:28	,13-Sep-2012
94,	17.8,	33.2,	34,	0.8356	,13:40:28	,13-Sep-2012

DAILY FIELD REPORT

PROJECT: Walden Ave ROW

PROJECT NO: NY02027-10

LOCATION: Depew, NY

DATE: 9/14/2012

CLIENT: NL Industries

WEATHER: 77° Sunny

CLIENT'S REPRESENTATIVE: Kevin Lombardozzi

CONTRACTOR: ERI

CONTRACTOR'S REPRESENTATIVE: Mike Dominic

SHEET: _1_ OF _1_

PROGRESS OF WORK:

ERI completed placed erosion control mat on the portions of the Site that were Hydro-seeded on 9-13-2012. ERI completed removing all trash from the Site. ERI placed signs to deter pedestrians from walking on the grass.

Advanced GeoServices was onsite to approve the final conditions of the Site. No outstanding issues were noted.

EPA was onsite. NYSDOT was onsite.

Field Representative: David Benson

APPENDIX E

Topsoil

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-24091-1
Client Project/Site: Depew ROW

For:
Environmental Restoration, Inc.
191 Courtdale Avenue
Courtdale, Pennsylvania 18704

Attn: Mr. Michael P Domenick

Melissa Deyo

Authorized for release by:
8/24/2012 1:49:59 PM

Melissa Deyo
Project Manager I
melissa.deyo@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-24091-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-24091-1

Receipt
The sample was received on 8/17/2012 2:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 17.0º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The following sample was diluted due to the nature of the sample matrix: Topsoil #2 (480-24091-1). Elevated reporting limits (RLs) are provided..

No other analytical or quality issues were noted.

GC Semi VOA
Method 8081A: The following sample was diluted due to the color of the sample: Topsoil #2 (480-24091-1). As such, surrogate recoveries are not representative and elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The method blank for preparation batch 77341 contained Lead and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 77341 was outside control limits for Manganese. Non-homogeneity of the sample matrix was suspected. The associated laboratory control sample (LCSSRM) met acceptance criteria; therefore, no corrective action was necessary.

No other analytical or quality issues were noted.

General Chemistry
Method 9012A: The matrix spike (MS) recovery for batch 77598 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
Method 3550B: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences prior to analysis method 8081A: Topsoil #2 (480-24091-1).

No other analytical or quality issues were noted.

Detection Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2 — Lab Sample ID: 480-24091-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	92	J	970	25	ug/Kg	5	☼	8270C	Total/NA
Benzo(a)anthracene	480	J	970	17	ug/Kg	5	☼	8270C	Total/NA
Benzo(a)pyrene	520	J	970	23	ug/Kg	5	☼	8270C	Total/NA
Benzo(b)fluoranthene	630	J	970	19	ug/Kg	5	☼	8270C	Total/NA
Benzo(g,h,i)perylene	280	J	970	12	ug/Kg	5	☼	8270C	Total/NA
Benzo(k)fluoranthene	360	J	970	11	ug/Kg	5	☼	8270C	Total/NA
Chrysene	560	J	970	9.6	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	78	J	970	11	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	1000		970	14	ug/Kg	5	☼	8270C	Total/NA
Indeno(1,2,3-cd)pyrene	240	J	970	27	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	430	J	970	20	ug/Kg	5	☼	8270C	Total/NA
Pyrene	760	J	970	6.2	ug/Kg	5	☼	8270C	Total/NA
Arsenic	6.6		2.5	0.50	mg/Kg	1	☼	6010B	Total/NA
Barium	72.5		0.63	0.14	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.54		0.25	0.035	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.42		0.25	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	14.7		0.63	0.25	mg/Kg	1	☼	6010B	Total/NA
Copper	19.9		1.3	0.26	mg/Kg	1	☼	6010B	Total/NA
Lead	37.9	B	1.3	0.30	mg/Kg	1	☼	6010B	Total/NA
Manganese	420		0.25	0.040	mg/Kg	1	☼	6010B	Total/NA
Nickel	17.2		6.3	0.29	mg/Kg	1	☼	6010B	Total/NA
Zinc	80.9	B	2.5	0.19	mg/Kg	1	☼	6010B	Total/NA
Total Mercury	0.051		0.022	0.0091	mg/Kg	1	☼	7471A	Total/NA
% Organic Matter	92.5		0.020	0.010	%	1		SM 2540G	Total/NA
Loss on Ignition (LOI)	7.5		0.020	0.010	%	1		SM 2540G	Total/NA
Phosphorus	383		20.0	8.0	mg/Kg	50	☼	SM 4500 P E	Total/NA
Ammonia	9.6		4.0	2.0	mg/Kg	1		350.1	ASTM
Nitrate Nitrite as N	34.8		1.0	0.0060	mg/Kg	1		353.2	ASTM

Client Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Lab Sample ID: 480-24091-1

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.8	0.42	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,1-Dichloroethane	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,1-Dichloroethene	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2,4-Trimethylbenzene	ND		5.8	1.1	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2-Dichlorobenzene	ND		5.8	0.45	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,2-Dichloroethane	ND		5.8	0.29	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,3,5-Trimethylbenzene	ND		5.8	0.37	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,3-Dichlorobenzene	ND		5.8	0.30	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,4-Dichlorobenzene	ND		5.8	0.81	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
1,4-Dioxane	ND		230	28	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Acetone	ND		29	4.9	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Benzene	ND		5.8	0.28	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Carbon tetrachloride	ND		5.8	0.56	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Chlorobenzene	ND		5.8	0.77	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Chloroform	ND		5.8	0.36	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
cis-1,2-Dichloroethene	ND		5.8	0.74	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Ethylbenzene	ND		5.8	0.40	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methyl Ethyl Ketone	ND		29	2.1	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methyl tert-butyl ether	ND		5.8	0.57	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Methylene Chloride	ND		5.8	2.7	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
n-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
n-Propylbenzene	ND		5.8	0.46	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
sec-Butylbenzene	ND		5.8	0.50	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
tert-Butylbenzene	ND		5.8	0.60	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Tetrachloroethene	ND		5.8	0.78	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Toluene	ND		5.8	0.44	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
trans-1,2-Dichloroethene	ND		5.8	0.60	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Trichloroethene	ND		5.8	1.3	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Vinyl chloride	ND		5.8	0.71	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1
Xylenes, Total	ND		12	0.97	ug/Kg	☼	08/20/12 10:22	08/20/12 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*	*08/20/12 10:22*	*08/20/12 20:40*	*1*
Toluene-d8 (Surr)	*87*		*71 - 125*	*08/20/12 10:22*	*08/20/12 20:40*	*1*
4-Bromofluorobenzene (Surr)	*84*		*72 - 126*	*08/20/12 10:22*	*08/20/12 20:40*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Acenaphthylene	ND		970	7.8	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Anthracene	**92**	**J**	970	25	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(a)anthracene	**480**	**J**	970	17	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(a)pyrene	**520**	**J**	970	23	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(b)fluoranthene	**630**	**J**	970	19	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(g,h,i)perylene	**280**	**J**	970	12	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Benzo(k)fluoranthene	**360**	**J**	970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Chrysene	**560**	**J**	970	9.6	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Dibenz(a,h)anthracene	**78**	**J**	970	11	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Dibenzofuran	ND		970	10	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Fluoranthene	**1000**		970	14	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Fluorene	ND		970	22	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5

Client Sample ID: Topsoil #2

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Lab Sample ID: 480-24091-1

Matrix: Solid
Percent Solids: 86.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		970	48	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Indeno(1,2,3-cd)pyrene	**240**	**J**	970	27	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
m-Cresol	ND		1900	53	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Naphthalene	ND		970	16	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
o-Cresol	ND		970	29	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
p-Cresol	ND		1900	53	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Pentachlorophenol	ND		1900	330	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Phenanthrene	**430**	**J**	970	20	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Phenol	ND		970	100	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5
Pyrene	**760**	**J**	970	6.2	ug/Kg	☼	08/23/12 08:42	08/24/12 11:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*39 - 146*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
2-Fluorobiphenyl	*97*		*37 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
2-Fluorophenol	*75*		*18 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
Nitrobenzene-d5	*85*		*34 - 132*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
Phenol-d5	*86*		*11 - 120*	*08/23/12 08:42*	*08/24/12 11:40*	*5*
p-Terphenyl-d14	*113*		*65 - 153*	*08/23/12 08:42*	*08/24/12 11:40*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		96	19	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
4,4'-DDE	ND		96	14	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
4,4'-DDT	ND		96	9.8	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Aldrin	ND		96	24	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
alpha-BHC	ND		96	17	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
alpha-Chlordane	ND		96	48	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
beta-BHC	ND		96	10	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
delta-BHC	ND		96	13	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Dieldrin	ND		96	23	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan I	ND		96	12	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan II	ND		96	17	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endosulfan sulfate	ND		96	18	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Endrin	ND		96	13	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Heptachlor	ND		96	15	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50
Lindane	ND		96	69	ug/Kg	☼	08/20/12 08:36	08/21/12 12:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*X*	*62 - 137*	*08/20/12 08:36*	*08/21/12 12:32*	*50*
Tetrachloro-m-xylene	*0*	*X*	*30 - 124*	*08/20/12 08:36*	*08/21/12 12:32*	*50*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1221	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1232	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1242	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1248	ND		230	45	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1254	ND		230	110	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1
Aroclor 1260	ND		230	110	ug/Kg	☼	08/20/12 16:13	08/22/12 10:12	1

Client Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Date Collected: 08/17/12 14:45
Date Received: 08/17/12 14:45

Lab Sample ID: 480-24091-1

Matrix: Solid
Percent Solids: 86.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*163*		*36 - 182*	*08/20/12 16:13*	*08/22/12 10:12*	*1*
Tetrachloro-m-xylene	*146*		*24 - 172*	*08/20/12 16:13*	*08/22/12 10:12*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		19	6.8	ug/Kg	☼	08/20/12 08:20	08/21/12 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*39 - 120*	*08/20/12 08:20*	*08/21/12 17:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		2.5	0.50	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Barium	**72.5**		0.63	0.14	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Beryllium	**0.54**		0.25	0.035	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Cadmium	**0.42**		0.25	0.038	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Chromium	**14.7**		0.63	0.25	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Copper	**19.9**		1.3	0.26	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Lead	**37.9**	**B**	1.3	0.30	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Manganese	**420**		0.25	0.040	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Nickel	**17.2**		6.3	0.29	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Selenium	ND		5.0	0.71	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Silver	ND		0.63	0.25	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1
Zinc	**80.9**	**B**	2.5	0.19	mg/Kg	☼	08/20/12 14:10	08/20/12 22:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	**0.051**		0.022	0.0091	mg/Kg	☼	08/21/12 10:00	08/21/12 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.1	0.55	mg/Kg	☼	08/21/12 11:12	08/22/12 03:15	1
% Organic Matter	**92.5**		0.020	0.010	%			08/23/12 15:28	1
Loss on Ignition (LOI)	**7.5**		0.020	0.010	%			08/23/12 15:28	1
Phosphorus	**383**		20.0	8.0	mg/Kg	☼	08/22/12 11:00	08/22/12 11:08	50

General Chemistry - ASTM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**9.6**		4.0	2.0	mg/Kg		08/22/12 09:22	08/22/12 15:00	1
Nitrate Nitrite as N	**34.8**		1.0	0.0060	mg/Kg			08/22/12 17:46	1

Surrogate Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-24091-1	Topsoil #2	92	87	84
LCS 480-77262/5	Lab Control Sample	89	90	87
MB 480-77262/6	Method Blank	77	89	83

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(39-146)	(37-120)	(18-120)	(34-132)	(11-120)	(65-153)
480-24091-1	Topsoil #2	93	97	75	85	86	113
LCS 480-77840/2-A	Lab Control Sample	96	85	79	88	83	106
MB 480-77840/1-A	Method Blank	85	72	61	70	67	96

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(62-137)	(30-124)
480-24091-1	Topsoil #2	0 X	0 X
LCS 480-77256/2-A	Lab Control Sample	87	69
LCSD 480-77256/3-A	Lab Control Sample Dup	96	80
MB 480-77256/1-A	Method Blank	88	72

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(36-182)	(24-172)
480-24091-1	Topsoil #2	163	146
LCS 480-77388/2-A	Lab Control Sample	157	159
MB 480-77388/1-A	Method Blank	143	122

Surrogate Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCPA1 (39-120)**							
480-24091-1	Topsoil #2	83							
LCS 480-77250/2-A	Lab Control Sample	97							
LCSD 480-77250/3-A	Lab Control Sample Dup	84							
MB 480-77250/1-A	Method Blank	92							

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-77262/6
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			08/20/12 12:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg			08/20/12 12:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg			08/20/12 12:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg			08/20/12 12:55	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg			08/20/12 12:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg			08/20/12 12:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg			08/20/12 12:55	1
1,4-Dioxane	ND		200	24	ug/Kg			08/20/12 12:55	1
Acetone	ND		25	4.2	ug/Kg			08/20/12 12:55	1
Benzene	ND		5.0	0.25	ug/Kg			08/20/12 12:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg			08/20/12 12:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg			08/20/12 12:55	1
Chloroform	ND		5.0	0.31	ug/Kg			08/20/12 12:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg			08/20/12 12:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg			08/20/12 12:55	1
Methyl Ethyl Ketone	ND		25	1.8	ug/Kg			08/20/12 12:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg			08/20/12 12:55	1
Methylene Chloride	ND		5.0	2.3	ug/Kg			08/20/12 12:55	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg			08/20/12 12:55	1
n-Propylbenzene	ND		5.0	0.40	ug/Kg			08/20/12 12:55	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg			08/20/12 12:55	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg			08/20/12 12:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			08/20/12 12:55	1
Toluene	ND		5.0	0.38	ug/Kg			08/20/12 12:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg			08/20/12 12:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg			08/20/12 12:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg			08/20/12 12:55	1
Xylenes, Total	ND		10	0.84	ug/Kg			08/20/12 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*64 - 126*		*08/20/12 12:55*	*1*
Toluene-d8 (Surr)	*89*		*71 - 125*		*08/20/12 12:55*	*1*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*		*08/20/12 12:55*	*1*

Lab Sample ID: LCS 480-77262/5
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	79 - 126
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	65 - 153
1,2,4-Trimethylbenzene	50.0	42.6		ug/Kg		85	74 - 120
1,2-Dichlorobenzene	50.0	46.0		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	50.8		ug/Kg		102	77 - 122
Benzene	50.0	47.2		ug/Kg		94	79 - 127
Chlorobenzene	50.0	46.0		ug/Kg		92	76 - 124
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	81 - 117

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-77262/5
Matrix: Solid
Analysis Batch: 77262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	45.3		ug/Kg		91	80 - 120
Methyl tert-butyl ether	50.0	51.2		ug/Kg		102	63 - 125
Tetrachloroethene	50.0	44.2		ug/Kg		88	74 - 122
Toluene	50.0	44.5		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	78 - 126
Trichloroethene	50.0	46.9		ug/Kg		94	77 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
Toluene-d8 (Surr)	*90*		*71 - 125*
4-Bromofluorobenzene (Surr)	*87*		*72 - 126*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-77840/1-A
Matrix: Solid
Analysis Batch: 78042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Acenaphthylene	ND		170	1.4	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Anthracene	ND		170	4.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(a)anthracene	ND		170	2.9	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(a)pyrene	ND		170	4.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(b)fluoranthene	ND		170	3.2	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(g,h,i)perylene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Benzo(k)fluoranthene	ND		170	1.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Chrysene	ND		170	1.7	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Dibenz(a,h)anthracene	ND		170	2.0	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Dibenzofuran	ND		170	1.7	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Fluoranthene	ND		170	2.4	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Fluorene	ND		170	3.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Hexachlorobenzene	ND		170	8.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Indeno(1,2,3-cd)pyrene	ND		170	4.6	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
m-Cresol	ND		330	9.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Naphthalene	ND		170	2.8	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
o-Cresol	ND		170	5.1	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
p-Cresol	ND		330	9.3	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Pentachlorophenol	ND		330	57	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Phenanthrene	ND		170	3.5	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Phenol	ND		170	18	ug/Kg		08/23/12 08:42	08/24/12 10:52	1
Pyrene	ND		170	1.1	ug/Kg		08/23/12 08:42	08/24/12 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*39 - 146*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
2-Fluorobiphenyl	*72*		*37 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
2-Fluorophenol	*61*		*18 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
Nitrobenzene-d5	*70*		*34 - 132*	*08/23/12 08:42*	*08/24/12 10:52*	*1*
Phenol-d5	*67*		*11 - 120*	*08/23/12 08:42*	*08/24/12 10:52*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-77840/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 78042 — **Prep Batch: 77840**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14	96		65 - 153	08/23/12 08:42	08/24/12 10:52	1

Lab Sample ID: LCS 480-77840/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 78042 — **Prep Batch: 77840**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	3280	2870		ug/Kg		87	53 - 120
Fluorene	3280	2880		ug/Kg		88	63 - 126
Pentachlorophenol	3280	3030		ug/Kg		92	33 - 136
Phenol	3280	2880		ug/Kg		88	36 - 120
Pyrene	3280	3050		ug/Kg		93	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	96		39 - 146
2-Fluorobiphenyl	85		37 - 120
2-Fluorophenol	79		18 - 120
Nitrobenzene-d5	88		34 - 132
Phenol-d5	83		11 - 120
p-Terphenyl-d14	106		65 - 153

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-77256/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77463 — **Prep Batch: 77256**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
4,4'-DDE	ND		1.6	0.24	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
4,4'-DDT	ND		1.6	0.17	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Aldrin	ND		1.6	0.40	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
alpha-BHC	ND		1.6	0.29	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
beta-BHC	ND		1.6	0.18	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
delta-BHC	ND		1.6	0.22	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Dieldrin	ND		1.6	0.39	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan I	ND		1.6	0.21	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan II	ND		1.6	0.29	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Endrin	ND		1.6	0.23	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Heptachlor	ND		1.6	0.26	ug/Kg		08/20/12 08:36	08/21/12 10:29	1
Lindane	ND		1.6	1.2	ug/Kg		08/20/12 08:36	08/21/12 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		62 - 137	08/20/12 08:36	08/21/12 10:29	1
Tetrachloro-m-xylene	72		30 - 124	08/20/12 08:36	08/21/12 10:29	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-77256/2-A
Matrix: Solid
Analysis Batch: 77463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	12.5		ug/Kg		76	45 - 129
4,4'-DDE	16.4	12.3		ug/Kg		75	49 - 120
4,4'-DDT	16.4	12.4		ug/Kg		75	47 - 145
Aldrin	16.4	11.5		ug/Kg		70	35 - 120
alpha-BHC	16.4	10.9		ug/Kg		67	49 - 120
alpha-Chlordane	16.4	12.3		ug/Kg		75	44 - 127
beta-BHC	16.4	11.8		ug/Kg		72	58 - 123
delta-BHC	16.4	11.7		ug/Kg		71	45 - 123
Dieldrin	16.4	12.5		ug/Kg		76	53 - 128
Endosulfan I	16.4	12.0		ug/Kg		73	29 - 125
Endosulfan II	16.4	12.9		ug/Kg		79	56 - 127
Endosulfan sulfate	16.4	12.8		ug/Kg		78	53 - 135
Endrin	16.4	13.1		ug/Kg		80	58 - 129
Heptachlor	16.4	12.2		ug/Kg		74	49 - 122
Lindane	16.4	11.5		ug/Kg		70	50 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*87*		*62 - 137*
Tetrachloro-m-xylene	*69*		*30 - 124*

Lab Sample ID: LCSD 480-77256/3-A
Matrix: Solid
Analysis Batch: 77463

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77256

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	16.3	11.5		ug/Kg		70	45 - 129	8	18
4,4'-DDE	16.3	11.4		ug/Kg		70	49 - 120	7	16
4,4'-DDT	16.3	11.4		ug/Kg		70	47 - 145	9	17
Aldrin	16.3	10.8		ug/Kg		66	35 - 120	6	24
alpha-BHC	16.3	10.3		ug/Kg		63	49 - 120	6	19
alpha-Chlordane	16.3	11.5		ug/Kg		71	44 - 127	7	13
beta-BHC	16.3	10.9		ug/Kg		67	58 - 123	8	17
delta-BHC	16.3	10.9		ug/Kg		67	45 - 123	7	14
Dieldrin	16.3	11.5		ug/Kg		71	53 - 128	8	13
Endosulfan I	16.3	11.1		ug/Kg		68	29 - 125	8	16
Endosulfan II	16.3	11.9		ug/Kg		73	56 - 127	8	17
Endosulfan sulfate	16.3	11.8		ug/Kg		73	53 - 135	8	14
Endrin	16.3	12.1		ug/Kg		74	58 - 129	8	19
Heptachlor	16.3	11.2		ug/Kg		69	49 - 122	8	16
Lindane	16.3	10.9		ug/Kg		67	50 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*62 - 137*
Tetrachloro-m-xylene	*80*		*30 - 124*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-77388/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77605 — **Prep Batch: 77388**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1221	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1232	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1242	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1248	ND		230	45	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1254	ND		230	110	ug/Kg		08/20/12 16:13	08/22/12 08:13	1
Aroclor 1260	ND		230	110	ug/Kg		08/20/12 16:13	08/22/12 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*143*		*36 - 182*	*08/20/12 16:13*	*08/22/12 08:13*	*1*
Tetrachloro-m-xylene	*122*		*24 - 172*	*08/20/12 16:13*	*08/22/12 08:13*	*1*

Lab Sample ID: LCS 480-77388/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77605 — **Prep Batch: 77388**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	2350	3010		ug/Kg		128	51 - 185
Aroclor 1260	2350	3330		ug/Kg		142	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*157*		*36 - 182*
Tetrachloro-m-xylene	*159*		*24 - 172*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-77250/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		16	5.9	ug/Kg		08/20/12 08:20	08/21/12 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*92*		*39 - 120*	*08/20/12 08:20*	*08/21/12 15:47*	*1*

Lab Sample ID: LCS 480-77250/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silvex (2,4,5-TP)	65.8	55.9		ug/Kg		85	54 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*97*		*39 - 120*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 480-77250/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77481 — **Prep Batch: 77250**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	66.6	48.0		ug/Kg		72	54 - 121	15	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*39 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-77341/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.8	0.37	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Barium	ND		0.46	0.10	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Beryllium	ND		0.18	0.026	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Cadmium	ND		0.18	0.028	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Chromium	ND		0.46	0.18	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Copper	ND		0.92	0.19	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Lead	0.244	J	0.92	0.22	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Manganese	ND		0.18	0.029	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Nickel	ND		4.6	0.21	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Selenium	ND		3.7	0.53	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Silver	ND		0.46	0.18	mg/Kg		08/20/12 14:10	08/20/12 22:08	1
Zinc	0.273	J	1.8	0.14	mg/Kg		08/20/12 14:10	08/20/12 22:08	1

Lab Sample ID: LCSSRM 480-77341/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	94.4	88.28		mg/Kg		93.5	69.2 - 131.2
Barium	167	151.8		mg/Kg		91.0	72.5 - 126.9
Beryllium	57.6	56.66		mg/Kg		98.5	73.3 - 126.7
Cadmium	60.5	56.24		mg/Kg		93.0	73.2 - 126.8
Chromium	70.3	64.95		mg/Kg		92.3	68.5 - 131.5
Copper	79.5	76.85		mg/Kg		96.6	73.6 - 125.6
Lead	91.7	87.27		mg/Kg		95.1	70.3 - 129.6
Manganese	283	265.9		mg/Kg		94.0	73.9 - 125.4
Nickel	57.6	54.02		mg/Kg		93.9	70.0 - 130.2
Selenium	86.3	81.79		mg/Kg		94.7	64.0 - 136.6
Silver	34.4	33.92		mg/Kg		98.7	65.7 - 134.6

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-77341/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	140	131.4		mg/Kg		93.9	67.4 - 132.9

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		47.4	47.31		mg/Kg	☼	86	75 - 125
Barium	72.5		47.4	116.8		mg/Kg	☼	94	75 - 125
Beryllium	0.54		47.4	42.61		mg/Kg	☼	89	75 - 125
Cadmium	0.42		47.4	41.50		mg/Kg	☼	87	75 - 125
Chromium	14.7		47.4	60.26		mg/Kg	☼	96	75 - 125
Copper	19.9		47.4	65.21		mg/Kg	☼	96	75 - 125
Lead	37.9	B	47.4	84.29		mg/Kg	☼	98	75 - 125
Manganese	420		47.4	802.0	4	mg/Kg	☼	807	75 - 125
Nickel	17.2		47.4	62.36		mg/Kg	☼	95	75 - 125
Selenium	ND		47.4	40.01		mg/Kg	☼	84	75 - 125
Silver	ND		11.8	11.24		mg/Kg	☼	95	75 - 125
Zinc	80.9	B	47.4	135.2		mg/Kg	☼	115	75 - 125

Lab Sample ID: 480-24091-1 MSD — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77454 — **Prep Batch: 77341**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		43.9	45.18		mg/Kg	☼	88	75 - 125	5	20
Barium	72.5		43.9	110.8		mg/Kg	☼	87	75 - 125	5	20
Beryllium	0.54		43.9	40.41		mg/Kg	☼	91	75 - 125	5	20
Cadmium	0.42		43.9	40.16		mg/Kg	☼	90	75 - 125	3	20
Chromium	14.7		43.9	56.33		mg/Kg	☼	95	75 - 125	7	20
Copper	19.9		43.9	64.96		mg/Kg	☼	103	75 - 125	0	20
Lead	37.9	B	43.9	84.80		mg/Kg	☼	107	75 - 125	1	20
Manganese	420		43.9	469.6	4 F	mg/Kg	☼	113	75 - 125	52	20
Nickel	17.2		43.9	61.08		mg/Kg	☼	100	75 - 125	2	20
Selenium	ND		43.9	39.50		mg/Kg	☼	90	75 - 125	1	20
Silver	ND		11.0	10.53		mg/Kg	☼	96	75 - 125	7	20
Zinc	80.9	B	43.9	129.3		mg/Kg	☼	110	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 480-77468/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77527 — **Prep Batch: 77468**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.020	0.0082	mg/Kg		08/21/12 10:00	08/21/12 11:52	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-77468/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77527 — **Prep Batch: 77468**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Total Mercury	3.77	3.06		mg/Kg		81.1	71.6 - 128.4

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-77698/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77745 — **Prep Batch: 77698**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20	0.10	mg/Kg		08/22/12 09:22	08/22/12 14:40	1

Lab Sample ID: LCS 480-77698/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77745 — **Prep Batch: 77698**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.904		mg/Kg		90	90 - 110

Lab Sample ID: MB 480-77575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		4.0	2.0	mg/Kg			08/22/12 15:04	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 480-77768/21 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.48		mg/Kg		99	90 - 110

Lab Sample ID: MB 480-77575/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		1.0	0.0060	mg/Kg			08/22/12 17:44	1

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	34.8		20.0	54.75		mg/Kg		100	77 - 123

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: ASTM**
Analysis Batch: 77768

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	34.8			34.57		mg/Kg				0.6	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-77499/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		1.0	0.48	mg/Kg		08/21/12 11:12	08/22/12 03:12	1

Lab Sample ID: LCS 480-77499/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			25.6	25.56		mg/Kg		100	29 - 122		

Lab Sample ID: 480-24091-1 MS — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND		11.2	13.77	F	mg/Kg	☼	123	85 - 115		

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77598 — **Prep Batch: 77499**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND			ND		mg/Kg	☼			NC	15

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 480-77942/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Organic Matter	ND		0.020	0.010	%			08/23/12 15:24	1
Loss on Ignition (LOI)	ND		0.020	0.010	%			08/23/12 15:24	1

Lab Sample ID: 480-24091-1 DU — **Client Sample ID: Topsoil #2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77942

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
% Organic Matter	92.5			92.65		%				0.1	20
Loss on Ignition (LOI)	7.5			7.35		%				2	20

QC Sample Results

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-77687/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77689 — **Prep Batch: 77687**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.011	0.0042	mg/Kg		08/22/12 11:00	08/22/12 11:08	1

Lab Sample ID: LCS 480-77687/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77689 — **Prep Batch: 77687**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phosphorus			597	390.7		mg/Kg		65	55 - 144		

QC Association Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

GC/MS VOA

Analysis Batch: 77262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8260B	77288
LCS 480-77262/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-77262/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 77288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 77840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77840/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-77840/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 78042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8270C	77840
LCS 480-77840/2-A	Lab Control Sample	Total/NA	Solid	8270C	77840
MB 480-77840/1-A	Method Blank	Total/NA	Solid	8270C	77840

GC Semi VOA

Prep Batch: 77250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8151A	
LCS 480-77250/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 480-77250/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	
MB 480-77250/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 77256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77256/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 480-77256/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 480-77256/1-A	Method Blank	Total/NA	Solid	3550B	

Prep Batch: 77388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3550B	
LCS 480-77388/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-77388/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 77463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8081A	77256
LCS 480-77256/2-A	Lab Control Sample	Total/NA	Solid	8081A	77256
LCSD 480-77256/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	77256
MB 480-77256/1-A	Method Blank	Total/NA	Solid	8081A	77256

GC Semi VOA (Continued)

Analysis Batch: 77481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8151A	77250
LCS 480-77250/2-A	Lab Control Sample	Total/NA	Solid	8151A	77250
LCSD 480-77250/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	77250
MB 480-77250/1-A	Method Blank	Total/NA	Solid	8151A	77250

Analysis Batch: 77605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	8082	77388
LCS 480-77388/2-A	Lab Control Sample	Total/NA	Solid	8082	77388
MB 480-77388/1-A	Method Blank	Total/NA	Solid	8082	77388

Metals

Prep Batch: 77341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	3050B	
480-24091-1 MS	Topsoil #2	Total/NA	Solid	3050B	
480-24091-1 MSD	Topsoil #2	Total/NA	Solid	3050B	
LCSSRM 480-77341/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-77341/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 77454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	6010B	77341
480-24091-1 MS	Topsoil #2	Total/NA	Solid	6010B	77341
480-24091-1 MSD	Topsoil #2	Total/NA	Solid	6010B	77341
LCSSRM 480-77341/2-A	Lab Control Sample	Total/NA	Solid	6010B	77341
MB 480-77341/1-A	Method Blank	Total/NA	Solid	6010B	77341

Prep Batch: 77468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	7471A	
LCSSRM 480-77468/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 480-77468/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 77527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	7471A	77468
LCSSRM 480-77468/2-A	Lab Control Sample	Total/NA	Solid	7471A	77468
MB 480-77468/1-A	Method Blank	Total/NA	Solid	7471A	77468

General Chemistry

Prep Batch: 77499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	9012A	
480-24091-1 DU	Topsoil #2	Total/NA	Solid	9012A	
480-24091-1 MS	Topsoil #2	Total/NA	Solid	9012A	
LCS 480-77499/2-A	Lab Control Sample	Total/NA	Solid	9012A	
MB 480-77499/1-A	Method Blank	Total/NA	Solid	9012A	

General Chemistry (Continued)

Analysis Batch: 77519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	Moisture	

Leach Batch: 77575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	D3987-85	
480-24091-1 DU	Topsoil #2	ASTM	Solid	D3987-85	
480-24091-1 MS	Topsoil #2	ASTM	Solid	D3987-85	
MB 480-77575/1-A	Method Blank	ASTM	Solid	D3987-85	

Analysis Batch: 77598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	9012A	77499
480-24091-1 DU	Topsoil #2	Total/NA	Solid	9012A	77499
480-24091-1 MS	Topsoil #2	Total/NA	Solid	9012A	77499
LCS 480-77499/2-A	Lab Control Sample	Total/NA	Solid	9012A	77499
MB 480-77499/1-A	Method Blank	Total/NA	Solid	9012A	77499

Prep Batch: 77687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 4500 P B	
LCS 480-77687/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	
MB 480-77687/1-A	Method Blank	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 77689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 4500 P E	77687
LCS 480-77687/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	77687
MB 480-77687/1-A	Method Blank	Total/NA	Solid	SM 4500 P E	77687

Prep Batch: 77698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	Distill/Ammonia	77575
LCS 480-77698/1-A	Lab Control Sample	Total/NA	Solid	Distill/Ammonia	
MB 480-77698/2-A	Method Blank	Total/NA	Solid	Distill/Ammonia	

Analysis Batch: 77745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	350.1	77698
LCS 480-77698/1-A	Lab Control Sample	Total/NA	Solid	350.1	77698
MB 480-77575/1-A	Method Blank	ASTM	Solid	350.1	77575
MB 480-77698/2-A	Method Blank	Total/NA	Solid	350.1	77698

Analysis Batch: 77768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	ASTM	Solid	353.2	77575
480-24091-1 DU	Topsoil #2	ASTM	Solid	353.2	77575
480-24091-1 MS	Topsoil #2	ASTM	Solid	353.2	77575
LCS 480-77768/21	Lab Control Sample	Total/NA	Solid	353.2	
MB 480-77575/1-A	Method Blank	ASTM	Solid	353.2	77575

QC Association Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

General Chemistry (Continued)

Analysis Batch: 77942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-24091-1	Topsoil #2	Total/NA	Solid	SM 2540G	
480-24091-1 DU	Topsoil #2	Total/NA	Solid	SM 2540G	
MB 480-77942/1	Method Blank	Total/NA	Solid	SM 2540G	

Lab Chronicle

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Client Sample ID: Topsoil #2

Lab Sample ID: 480-24091-1

Date Collected: 08/17/12 14:45

Matrix: Solid

Date Received: 08/17/12 14:45

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			77288	08/20/12 10:22	JMB	TAL BUF
Total/NA	Analysis	8260B		1	77262	08/20/12 20:40	CDC	TAL BUF
Total/NA	Prep	3550B			77840	08/23/12 08:42	CM	TAL BUF
Total/NA	Analysis	8270C		5	78042	08/24/12 11:40	AM	TAL BUF
Total/NA	Prep	3550B			77256	08/20/12 08:36	CM	TAL BUF
Total/NA	Analysis	8081A		50	77463	08/21/12 12:32	LW	TAL BUF
Total/NA	Prep	8151A			77250	08/20/12 08:20	CM	TAL BUF
Total/NA	Analysis	8151A		1	77481	08/21/12 17:15	MN	TAL BUF
Total/NA	Prep	3550B			77388	08/20/12 16:13	DE	TAL BUF
Total/NA	Analysis	8082		1	77605	08/22/12 10:12	JM	TAL BUF
Total/NA	Prep	3050B			77341	08/20/12 14:10	SS	TAL BUF
Total/NA	Analysis	6010B		1	77454	08/20/12 22:15	MM	TAL BUF
Total/NA	Prep	7471A			77468	08/21/12 10:00	JRK	TAL BUF
Total/NA	Analysis	7471A		1	77527	08/21/12 12:43	JRK	TAL BUF
Total/NA	Analysis	Moisture		1	77519	08/21/12 12:06	ZLR	TAL BUF
Total/NA	Prep	9012A			77499	08/21/12 11:12	EGN	TAL BUF
Total/NA	Analysis	9012A		1	77598	08/22/12 03:15	PJQ	TAL BUF
Total/NA	Prep	SM 4500 P B			77687	08/22/12 11:00	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		50	77689	08/22/12 11:08	KS	TAL BUF
ASTM	Leach	D3987-85			77575	08/21/12 19:47	KS	TAL BUF
ASTM	Prep	Distill/Ammonia			77698	08/22/12 09:22	KS	TAL BUF
ASTM	Analysis	350.1		1	77745	08/22/12 15:00	KS	TAL BUF
ASTM	Analysis	353.2		1	77768	08/22/12 17:46	KS	TAL BUF
Total/NA	Analysis	SM 2540G		1	77942	08/23/12 15:28	KS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-12
Connecticut	State Program	1	PH-0568	09-30-12
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	03-31-12
Illinois	NELAC	5	200003	09-30-12
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-12
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-12
New Hampshire	NELAC	1	2337	11-17-12
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-12
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-12
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-12
Wisconsin	State Program	5	998310390	08-31-12

Method Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081A	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
8151A	Herbicides (GC)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7471A	Mercury (CVAA)	SW846	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Environmental Restoration, Inc.
Project/Site: Depew ROW

TestAmerica Job ID: 480-24091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-24091-1	Topsoil #2	Solid	08/17/12 14:45	08/17/12 14:45

[redacted]

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

#6381

Client: Environmental Restoration INC	Project Manager: Mike Domenick	Date: 8-17-12	Chain of Custody Number: 208800
Address: 191 Courtdale AVE	Telephone Number (Area Code)/Fax Number: 570 331-8191	Lab Number	Page 1 of 1
City: Courtdale; State: PA; Zip Code: 18704	Site Contact: Mike Domenick	Lab Contact	
Project Name and Location (State): DePew Row	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

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 (Attach list if more space is needed): See Attach	Special Instructions/ Conditions of Receipt
TopSoil #2	8-17-12	2:45													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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Michael Domenick	8-17-12	2:45	1. Received By: Tony Bozzel — TAL-BUFFALO	8-17-12	14:45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 17.0°C NO ICE #2

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

Login Sample Receipt Checklist

Client: Environmental Restoration, Inc.

Job Number: 480-24091-1

Login Number: 24091
List Number: 1
Creator: Kinecki, Kenneth

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	17.0 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Env Restoration Inc
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

§375-6.8 Soil cleanup objective tables.

(a) Unrestricted use soil cleanup objectives.

Table 375-6.8(a):Unrestricted Use Soil Cleanup Objectives		
Contaminant	**CAS Number**	**Unrestricted Use**
Metals		
Arsenic	7440-38-2	13 [c]
Barium	7440-39-3	350 [c]
Beryllium	7440-41-7	7.2
Cadmium	7440-43-9	2.5 [c]
Chromium, hexavalent [e]	18540-29-9	1[b]
Chromium, trivalent [e]	16065-83-1	30 [c]
Copper	7440-50-8	50
Total Cyanide [e, f]		27
Lead	7439-92-1	63 [c]
Manganese	7439-96-5	1600 [c]
Total Mercury		0.18 [c]
Nickel	7440-02-0	30
Selenium	7782-49-2	3.9[c]
Silver	7440-22-4	2
Zinc	7440-66-6	109 [c]
PCBs/Pesticides		
2,4,5-TP Acid (Silvex)[f]	93-72-1	3.8
4,4'-DDE	72-55-9	0.0033 [b]
4,4'-DDT	50-29-3	0.0033 [b]

4,4'-DDD	72-54-8	0.0033 [b]
Aldrin	309-00-2	0.005 [c]
alpha-BHC	319-84-6	0.02
beta-BHC	319-85-7	0.036
Chlordane (alpha)	5103-71-9	0.094
delta-BHC [g]	319-86-8	0.04
Dibenzofuran [f]	132-64-9	7
Dieldrin	60-57-1	0.005[c]
Endosulfan I[d, f]	959-98-8	2.4
Endosulfan II[d, f]	33213-65-9	2.4
Endosulfan sulfate[d, f]	1031-07-8	2.4
Endrin	72-20-8	0.014
Heptachlor	76-44-8	0.042
Lindane	58-89-9	0.1
Polychlorinated biphenyls	1336-36-3	0.1
Semivolatile organic compounds		
Acenaphthene	83-32-9	20
Acenapthylene [f]	208-96-8	100 [a]
Anthracene [f]	120-12-7	100 [a]
Benz(a)anthracene [f]	56-55-3	1[c]
Benzo(a)pyrene	50-32-8	1[c]
Benzo(b)fluoranthene[f]	205-99-2	1[c]
Benzo(g,h,i)perylene [f]	191-24-2	100
Benzo(k)fluoranthene[f]	207-08-9	0.8 [c]

Chrysene [f]	218-01-9	1[c]
Dibenz(a,h)anthracene[f]	53-70-3	0.33 [b]
Fluoranthene [f]	206-44-0	100 [a]
Fluorene	86-73-7	30
Indeno(1,2,3-cd)pyrene [f]	193-39-5	0.5 [c]
m-Cresol [f]	108-39-4	0.33 [b]
Naphthalene [f]	91-20-3	12
o-Cresol [f]	95-48-7	0.33 [b]
p-Cresol [f]	106-44-5	0.33 [b]
Pentachlorophenol	87-86-5	0.8[b]
Phenanthrene [f]	85-01-8	100
Phenol	108-95-2	0.33[b]
Pyrene[f]	129-00-0	100
Volatile organic compounds		
1,1,1-Trichloroethane [f]	71-55-6	0.68
1,1-Dichloroethane [f]	75-34-3	0.27
1,1-Dichloroethene[f]	75-35-4	0.33
1,2-Dichlorobenzene[f]	95-50-1	1.1
1,2-Dichloroethane	107-06-2	0.02[c]
cis -1,2-Dichloroethene [f]	156-59-2	0.25
trans-1,2-Dichloroethene [f]	156-60-5	0.19
1,3-Dichlorobenzene[f]	541-73-1	2.4
1,4-Dichlorobenzene	106-46-7	1.8
1,4-Dioxane	123-91-1	0.1 [b]

Acetone	67-64-1	0.05
Benzene	71-43-2	0.06
n-Butylbenzene [f]	104-51-8	12
Carbon tetrachloride [f]	56-23-5	0.76
Chlorobenzene	108-90-7	1.1
Chloroform	67-66-3	0.37
Ethylbenzene[f]	100-41-4	1
Hexachlorobenzene [f]	118-74-1	0.33[b]
Methyl ethyl ketone	78-93-3	0.12
Methyl tert-butyl ether [f]	1634-04-4	0.93
Methylene chloride	75-09-2	0.05
n - Propylbenzene [f]	103-65-1	3.9
sec-Butylbenzene [f]	135-98-8	11
tert-Butylbenzene[f]	98-06-6	5.9
Tetrachloroethene	127-18-4	1.3
Toluene	108-88-3	0.7
Trichloroethene	79-01-6	0.47
1,2,4-Trimethylbenzene [f]	95-63-6	3.6
1,3,5-Trimethylbenzene[f]	108-67-8	8.4
Vinyl chloride[f]	75-01-4	0.02
Xylene (mixed)	1330-20-7	0.26

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Footnotes

[a] The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See Technical Support Document (TSD), section 9.3.

[b] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[c] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[d] SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

[e] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[f] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

APPENDIX F

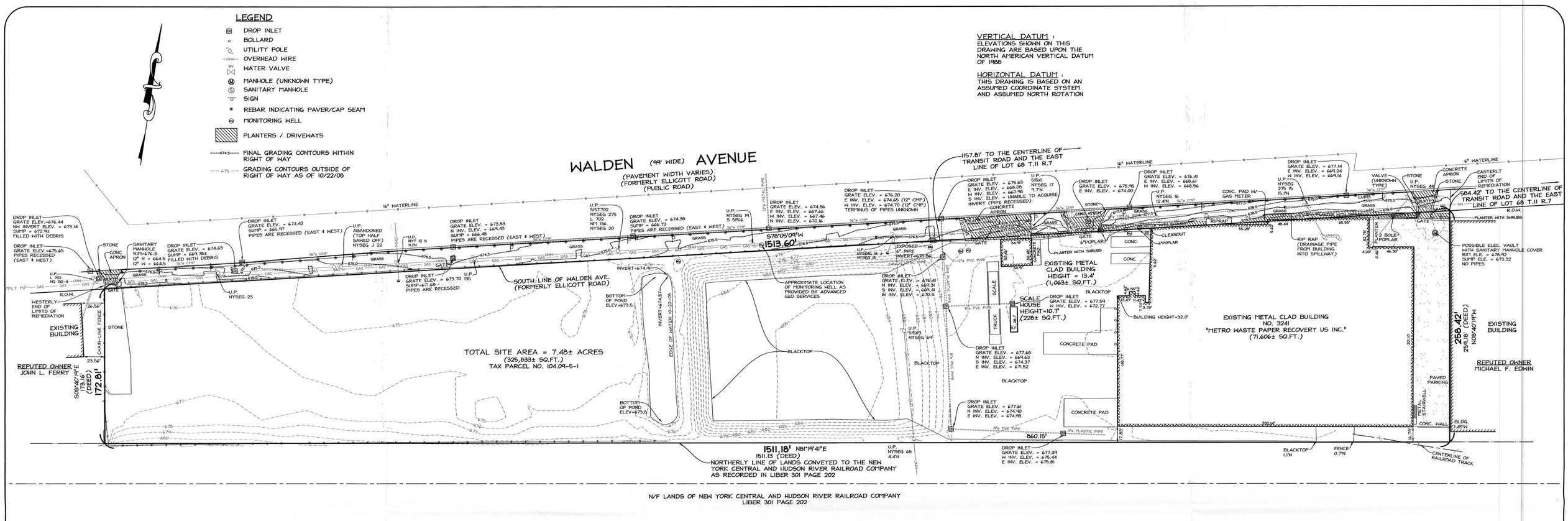
Topographic Survey and Multi-Layer Permeable Cap As-Built Drawing

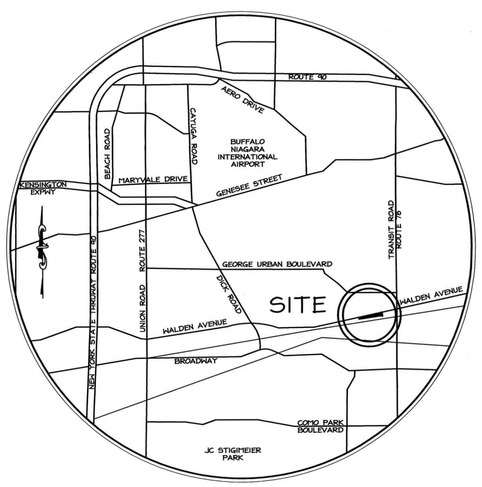
LEGEND

- DROP INLET
- BOLLARD
- UTILITY POLE
- OVERHEAD WIRE
- WATER VALVE
- MANHOLE (UNKNOWN TYPE)
- SANITARY MANHOLE
- SIGN
- REBAR INDICATING PAVER/CAP SEAM
- MONITORING WELL
- PLANTERS / DRIVEWAYS
- 674.5 FINAL GRADING CONTOURS WITHIN RIGHT OF WAY
- 675 GRADING CONTOURS OUTSIDE OF RIGHT OF WAY AS OF 10/22/08

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

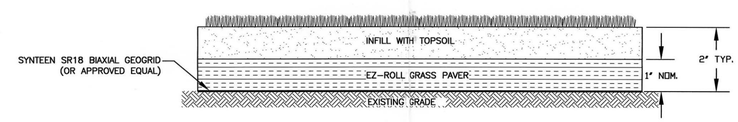




VICINITY MAP
(NOT TO SCALE)

NOTES:

1. ANY PLANNED DISTURBANCE TO THE MULTI-LAYER PERMEABLE CAP SHOULD BE COMPLETED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN DATED JULY 2012.
2. REBAR LOCATIONS SHOW 20 FOOT CAP SECTIONS
3. TOTAL AREA OF MULTI-LAYER PERMEABLE CAP = 29,069 SQ.FT.
4. UTILITY INFORMATION SHOWN HEREON IS FROM A SURVEY DONE BY NUSSBAUMER & CLARKE ON SEPTEMBER 11, 20011. IT HAS NOT BEEN UPDATED OR VERIFIED WITH THE UTILITY COMPANIES.
5. THIS SURVEY IS TO SHOW THE INFORMATION WITHIN THE RIGHT OF WAY AREA OF WALDEN AVENUE. THE INFORMATION SHOWN WITHIN THE PROPERTY WAS SURVEYED ON OCTOBER 22, 2008.



MULTI-LAYER PERMEABLE CAP CROSS SECTION

NOTES:

1. REGRADED MATERIAL TO BE SPREAD OVER REMAINING WORK AREA PRIOR TO PLACEMENT OF MULTI-LAYER PERMEABLE CAP.
2. ALL DISTURBED AREAS ARE TO BE RESTORED TO A PERMANENT VEGETATIVE COVER CONDITION. WORK AREA MUST BE FULLY STABILIZED UPON COMPLETION.
3. PROVIDE POSITIVE DRAINAGE WITHIN WORK AREA AND MAINTAIN EXISTING DRAINAGE PATTERNS.

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.

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TOPOGRAPHIC SURVEY & MULTI-LAYER PERMEABLE CAP AS-BUILT DRAWING OF 3241 WALDEN AVENUE RIGHT OF WAY

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.	SHEET NO. 1 OF 1
DATE: 09/21/12	JOBNO. 07J2-0481C-BG2	
SCALE: 1"=50'	DWG. NO. SC-3517-C	

NEW YORK STATE FRONTIER LAND SURVEYORS ASSOCIATION INC. 1960
MEMBER

APPENDIX G

Operation and Maintenance Plan

Operations and Maintenance Plan
Walden Street Right-of-Way
Depew, New York

Site Background

The Right-of-Way (ROW) in front of 3241 Walden Avenue, Depew, New York, is on the south side of road. It is approximately 25 feet wide and approximately 1,500 feet long, as shown on Figure 1. The ROW is managed by the New York Department of Transportation and is currently vacant and primarily covered by grass. Portions of the ROW are paved with asphalt and are used by Metro-Waste Paper Recovery US Inc. as a driveway/entranceway. Sampling of soil within the ROW by others indicates the soil contains elevated concentrations of metals.

In order to prevent contact with the metal-impacted soil, a Multi-Layer Permeable Cap was installed over the grass portions between the curbing on Walden Avenue and the fence/building located to the south of the ROW.

This Operations and Maintenance Plan briefly describes procedures to access the underground utilities or other subsurface work and then restore the Multi-layer Permeable Cap following any work completed.

Construction Materials and Specifications

Synthetic Materials used to construct the Multi-Layer Cap are described below. A detail illustrating the cross-section of the Multi-Layer Cap is provided as Figure 2.

- NDS EZ Roll™ Grassroad Pavers®: installed in sections of 150 ft. in length and 4 ft. in width.
- Synteen SR18 biaxial geogrid: installed in sections 150 ft. in length and 8 ft. in width.

Specification sheets are provided for each material as Attachment A.

Existing Utilities

Utilities exist on all or part of the ROW including gas, water, stormwater, sanitary sewer, overhead electric, and underground electric. A gas line runs the length of the ROW and it is typically located approximately 4-6 ft. from the existing chain link fence and building. Stormwater inlets are typically located within the roadway north of the curbing; however, there are multiple stormwater inlets located between the curb and fence. Figure 1 provides the existing features of the ROW and approximate locations of the utilities based on the Design Dig Safely New York information provided to Nussbaumer and Clarke, Inc. for their survey of site conditions provided on Figure-1. Special care is necessary to access these utilities for minor repairs and to maintain the integrity of the Multi-Layer Cap. These special management and maintenance features are described below.

Procedures for Utility Repair/Subsurface Work

A copy of this Operation and Maintenance Plan shall be provided to each party who will perform subsurface work in the ROW.

Prior to any earth disturbance the work party shall notify Dig Safely New York to request a utility stakeout by calling 1-800-962-7962 or 811. A minimum of two working days is required prior to excavation. As part of the Dig Safe process, a copy of this Operation and Maintenance Plan will be provided to the work party.

The Multi-Layer Permeable Cap may be removed in sections to access the utilities or subsurface of the ROW using the mandatory procedures described below. Figure 3 provides the typical layout of the Grass Pavers and the alignment within the ROW. It may be noted the Grass Pavers are 4’ wide.

In order to access the subsurface a sequence of construction is provided below. The work party should note that the soils below the geogrid are impacted with metals. Caution should be taken when disturbing these soils and it is recommended that dust suppression (water spray) be performed during subsurface soil disturbance activities.

Accessing Utility Procedures:

1. Layout work area needed to access underground utility.
2. Carefully remove top one inch of topsoil in work area with low-ground pressure equipment (e.g., rubber tracked skidsteer) and stockpile topsoil adjacent to work area.
3. Locate the E-Z Roll Grass Paver and cut connections as needed with power saw (e.g., a black-top saw).
4. Remove the Grass Paver and geogrid to access the impacted soils and the utility where work is to be performed.
5. Excavate impacted soils as necessary to access utility and stockpile impacted soils on polyethylene sheeting and cover (impacted soils will be used as backfill following utility repair).

Management of Impacted Soils

If subsurface work is anticipated to last multiple days, the work party should provide high-visual safety fencing around stockpiles and open excavations. Stockpiles should remain covered with polyethylene sheeting and ballast applied to prevent wind uplift.

Restoration:

1. Backfill areas of repair below the geogrid/Grass Pavers to pre-excavation subgrade with impacted soils removed and compact with hand compactor (jumping jack) or remote roller as access allows.

2. Inspect both the geogrid and Grass Paver for damage and replace as necessary.
3. Replace geogrid over compacted subgrade completely covering disturbed areas. Replace grass pavers to cover geogrid below.
4. Place clean stockpiled topsoil from the top 1" of the excavation in the Grass Paver cells. Once paver cells are completely filled, place an additional one-inch of topsoil over cells.
5. Rake topsoil to provide seed to soil contact. Apply seeding and a slow–release fertilizer over topsoil. Seeding should consist of a combination of temporary grass seed (e.g., annual rye) and local varieties of perennial vegetation for long term turf establishment.
6. Apply straw mulch to completely cover disturbed areas to provide erosion control and organic material.
7. Periodically water seeded areas as weather conditions dictate.

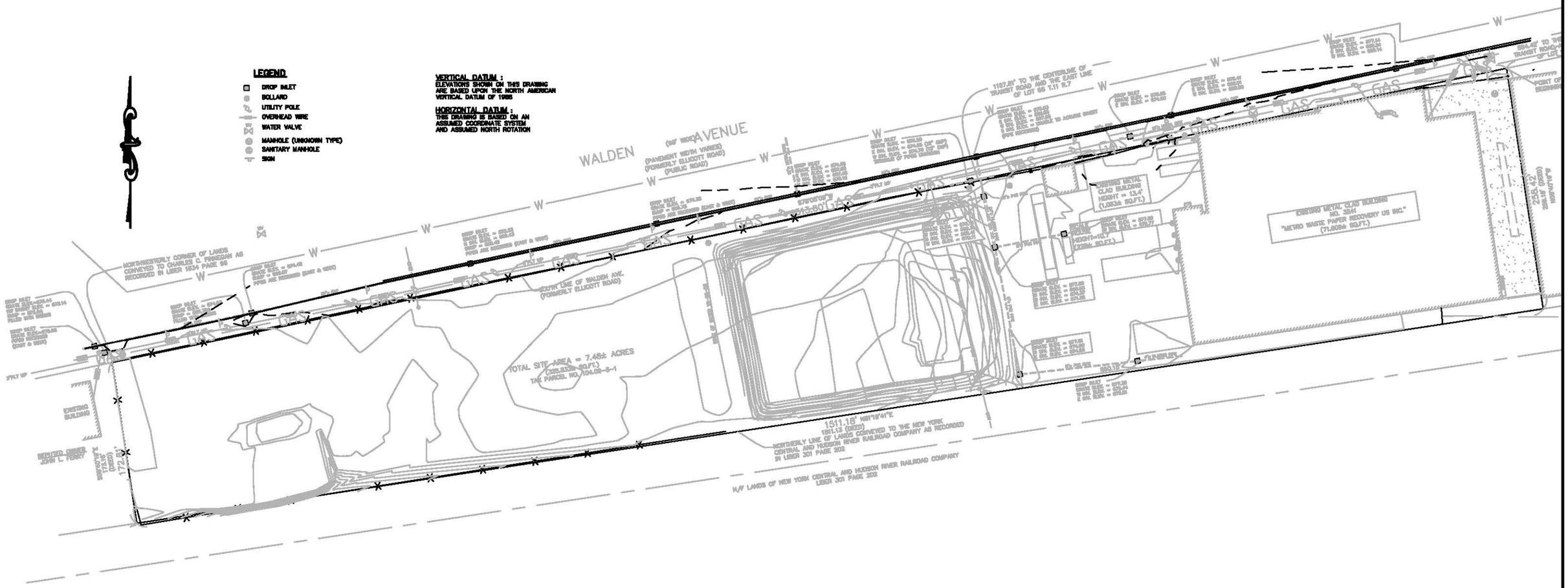
Mowing

Periodically, the ROW should be mowed to conform to local ordinances at a biannual minimum to prevent woody vegetation from developing and interfering with the pavers and geogrid.

Contact

Additional questions or concerns on the impacted soils below the Multi-Layer Permeable Cap are to be directed to the New York Department of Transportation.

FIGURES



NOTE:
SURVEY INFORMATION PROVIDED BY NUSSBAUMER AND CLARKE, INC.

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

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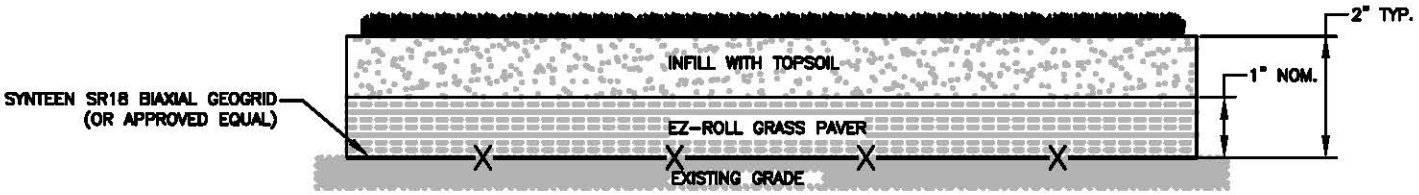
WALDEN AVENUE RIGHT-OF-WAY
EXISTING FEATURES PLAN

DEPEW, NY

SCALE:	1" = 1250'
PROJECT NUMBER:	NY02-927
DATE:	

Figure-1



MULTI-LAYER PERMEABLE CAP CROSS SECTION

NOTES:

1. REGRADED MATERIAL TO BE SPREAD OVER REMAINING WORK AREA PRIOR TO PLACEMENT OF MULTI-LAYER PERMEABLE CAP.
2. ALL DISTURBED AREAS ARE TO BE RESTORED TO A PERMANENT VEGETATIVE COVER CONDITION. WORK AREA MUST BE FULLY STABILIZED UPON COMPLETION.
3. PROVIDE POSITIVE DRAINAGE WITHIN WORK AREA AND MAINTAIN EXISTING DRAINAGE PATTERNS.

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WALDEN AVENUE RIGHT-OF-WAY CROSS-SECTION DETAIL

DEPEW, NY

PROJECT ENGINEER: B.L.F.		SCALE:	NO SCALE
CHECKED BY: C.T.R.		PROJECT NUMBER:	NY02-927
DRAWN BY: K.O.		DATE:	FIGURE: 2

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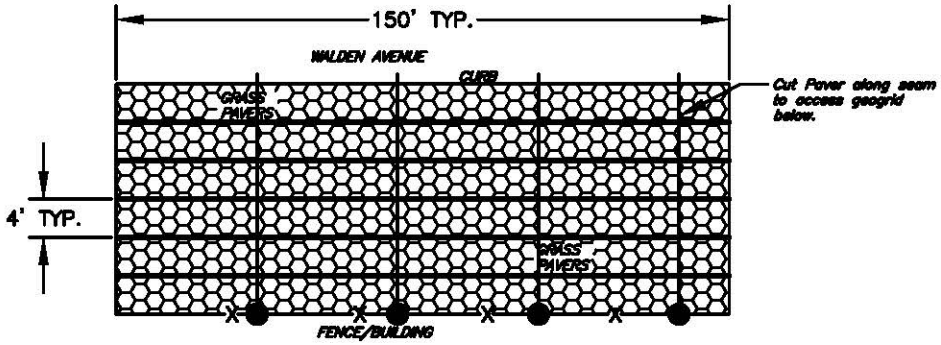

MULTI-LAYER PERMEABLE CAP PLAN VIEW

Accessing Utility Procedures:

1. Layout work area needed to access underground utility.
2. Carefully remove top one inch of topsoil in work area with low-ground pressure equipment (e.g., rubber tracked skidsteer) and stockpile topsoil adjacent to work area.
3. Locate the E-Z Roll Grass Paver and cut connections as needed with power saw (e.g., a black-top saw).
4. Remove the Grass Paver and geogrid to access the impacted soils and the utility where work is to be performed.
5. Excavate impacted soils as necessary to access utility and stockpile impacted soils on polyethylene sheeting and cover (impacted soils will be used as backfill following utility repair).

Management of Impacted Soils

If repair is anticipated to last multiple days, the contractor should provide high-visual safety fencing around stockpiles and open excavations. Stockpiles should remain covered with polyethylene sheeting and ballast applied to prevent wind uplift.

Restoration:

1. Backfill areas of repair below the geogrid/Grass Pavers to pre-excavation subgrade with impacted soils removed and compact with hand compactor (jumping jack) or remote roller as access allows.
2. Inspect both the geogrid and Grass Paver for damage and replace as necessary.
3. Replace geogrid over compacted subgrade completely covering disturbed areas. Replace grass pavers to cover geogrid below.
4. Place clean stockpiled topsoil, from the top 1" of the excavation in the Grass Paver cells. Once paver cells are completely filled, place an additional one-inch of topsoil over cells.
5. Rake topsoil to provide seed to soil contact. Apply seeding and a slow-release fertilizer over topsoil. Seeding should consist of a combination of temporary grass seed (e.g., annual rye) and local varieties of perennial vegetation for long term turf establishment.
6. Apply straw mulch or erosion control matting to completely cover disturbed areas to provide erosion control and organic material.
7. Periodically water seeded areas as weather conditions dictate.

Notes:

1. Prior to any earth disturbance the contractor should notify Dig Safely New York to request a utility stakeout by calling 1-800-962-7962 or 811. A minimum of two working days is required prior to excavation.
2. Dimensions of Grass Pavers and Geogrid may vary but generally be placed in 4' x 20' sections. .
3. Grass Paver is NDS EZRoll™ or equivalent.
4. Geogrid is Synteen SR18 or equivalent.
5. Existing gas line located 4-6 feet from fence/building (see Existing Features Plan)
6. Existing stormwater sewer located along Walden Avenue curb. Additional inlets are located between curb and fence/building

Figure 3

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WALDEN AVENUE RIGHT-OF-WAY UTILITY REPAIR DETAIL DEPEW, NY

PROJECT ENGINEER: B.L.F.	SCALE: NO SCALE
CHECKED BY: C.T.R.	PROJECT NUMBER: NY02-927
DRAWN BY: K.O.	DATE:

It is a violation of the New York Education Article 145 - Engineering and Land Surveying, Section 7209 (2) law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration.

ATTACHMENT A

MATERIAL SPECIFICATION SHEETS

SYNTEEN SR18

The Green Secondary Reinforcement and Soil Retention Biaxial Geogrid for Stabilized Earth Retaining Wall and Geogrid Reinforced Slopes.

SR18 is composed of GREEN PVC Coated high molecular weight, high tenacity multifilament polyester yarns that are woven into a stable network placed under tension. SR18 geogrid is a bi-directional geogrid with strength in both the machine (MD) and cross-machine direction (XMD).

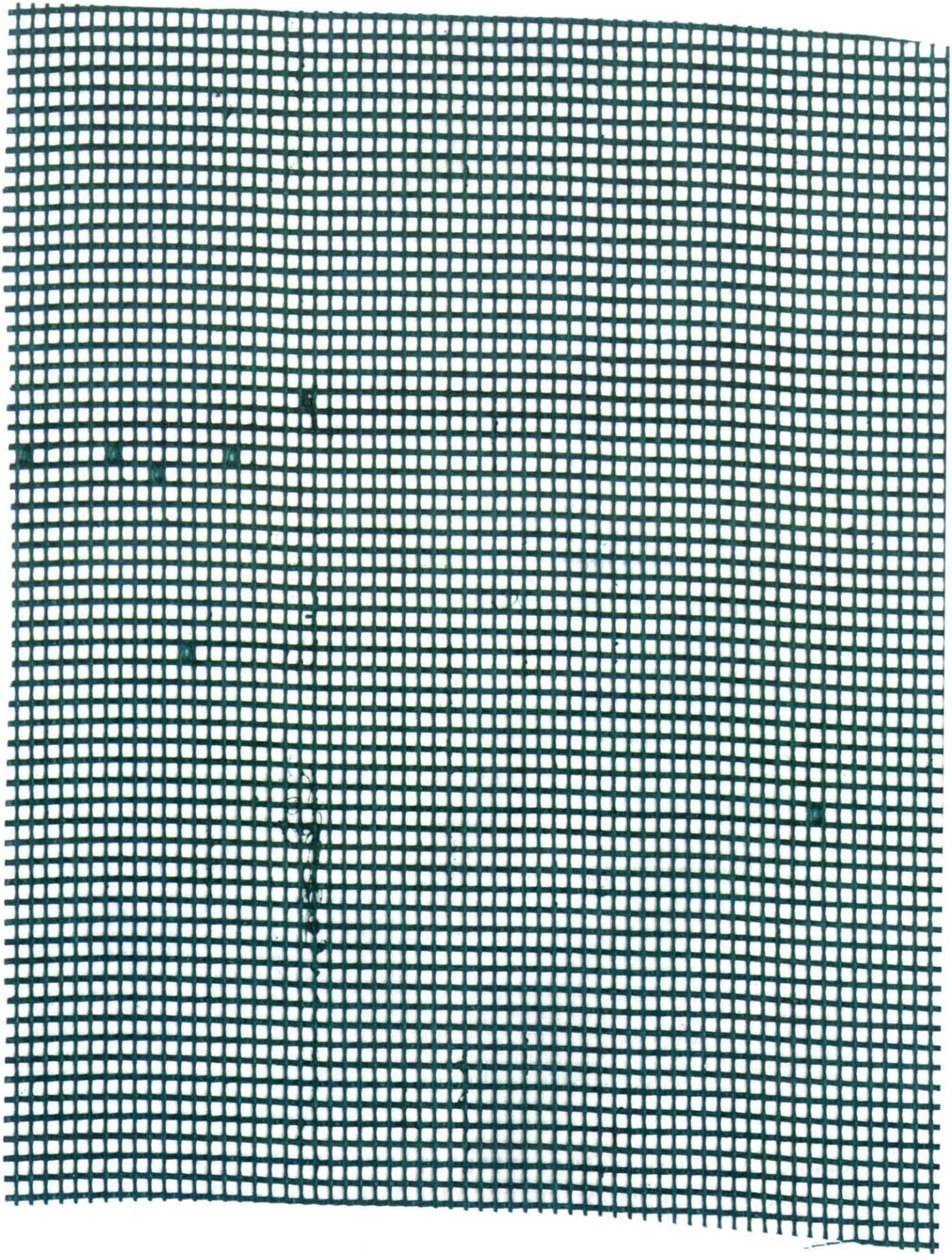
Synteen SR18 is utilized in a variety of soil reinforcement applications such as:

- Secondary reinforcement layer in reinforced soil embankments.
- Face wrap behind welded wire or wire basket faced retaining walls.
- Reinforcement in non-critical segmental block (SRW) and natural stone (rockery) retaining walls.
- Reinforcement under pavers, unpaved trails and paths. SR18 provides increased stabilization, reduces rutting, and decreases the costs associated with maintenance
- SR18 provides exceptional strength, creep resistance and soil/aggregate retention properties.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES (lbs./ft.)
• **Ultimate Strength**	**ASTM D 6637**	
o Machine Direction		**1700**
o Cross Machine Direction		**1400**
• **Long Term Design Strength**	**NCMA 97**	
o Machine Direction		**912**
o Cross Machine Direction		**826**
• **Roll Size**	**Measured**	**8' x 150'**
• **Aperture Size (in.)**	**Measured**	**0.08 x 0.08**

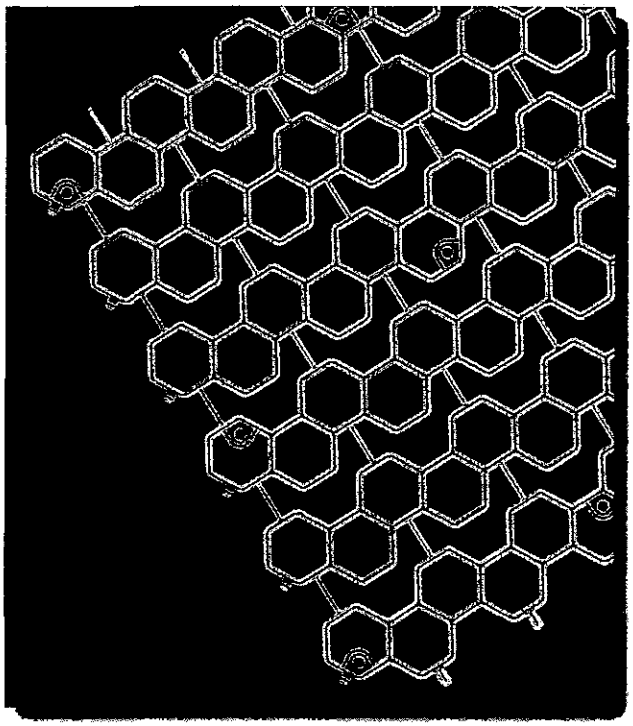
PROUDLY MADE IN THE USA by Synteen
Lancaster, South Carolina

Phone: (800) 796-8336
Website:www.synteen.com



TECHNICAL SPECIFICATION GUIDE

EZ ROLL™ GRASS PAVERS



Model Numbers:
EZ4X24 and EZ4X150

NDS Customer Service 851 N. Harvard Avenue, Lindsay, CA 93247
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NDS
WE PUT WATER IN ITS PLACE

EZ ROLL™ GRASS PAVERS

Product Specifications

Material	**EZ Roll™** Grass Pavers are molded from 100% HDPE.
Recyclability	**EZ Roll™** Grass Pavers are 100% recyclable. Please recycle whenever possible.
Paver Size	Rolls (comprised of 24" x 24" panels). Part number EZ4X24 has dimensions of 4' x 24' per roll, and part number EZ4X150 has dimensions of 4' x 150' per roll.
Paver Details	Each paver panel shall contain 72, 21/4 inch hexagonal cells in a nested honeycomb form with integrated cross links that allow easy rollout installation.
Paver Top Surface	The top surface of the hexagonal cell walls of the EZ Roll™ Grass Pavers is smooth and devoid of notches or groves.
Assembly Mechanism	12 lateral snap locks per panel.
Paver Bottom Open Area	The **EZ Roll™** Grass Pavers structure has over 80% open area on the bottom surface, an area equal to 478 square inches per paver section.
Paver Color	Black with ultraviolet inhibitors.
Compressive Strength	The compressive strength of the **EZ Roll™** Grass Pavers is 50,400 lbs. (psf.) which is equal to 350 lbs. (psi.), bare product (empty cells); independent laboratory tests conducted at Smith Emery Laboratories.* This load capability is in excess of H20 loading requirements.
Chemical Resistance	**EZ Roll™** Grass Pavers have superior chemical resistance and are totally inert.
Weight Per Unit	2.31 pounds per 24"x 24" section.
Unique Product Features	The **EZ Roll™** Grass Pavers system combines the load carrying durability of a nested honeycomb system with connecting integrated cross links to allow easy roll out installations.

* Please see page 15 for test results.

TECHNICAL SPECIFICATION GUIDE

EZ ROLL™ GRASS PAVERS

Paver Installation Guidelines

Architectural and Engineering "Base" Determination

The first decision in project planning must address the correct base construction that will support the traffic load weight anticipated on the site. i.e. fire lane, overflow parking, light utility access road, R.V. access lane, etc. There are three base options to choose from:

1. Light load / High traffic – base shall be min. 4" of compacted coarse aggregate to architects' specification and local code.
2. Heavy load — base shall be a min. 6" class II road base of compacted coarse aggregate to architects' specification and local code.
3. Heavy load / Fire lane – base shall be a min. 6" class II road base of compacted coarse aggregate to architects' specification, local code, and fire authority's requirements.

Site Preparation

1. Remove all foreign top grade structures or objects and excavate existing site soil to accommodate the base specified.
2. Install the base per architectural and/or engineering drawings and written specifications describing depth, load rating, construction materials, and required compaction.

Paver Assembly & Installation (Overview)

1. Choose a starting point adjacent to a straight run if possible. Unroll product onto the prepared base, giving a 1" clearance to fixed objects or structures (eg: utility poles, valve boxes, sprinkler heads, drainage grates, curbs, etc).
2. Add next course of EZ Roll™ Grass Pavers (either roll or individual pieces) as needed to completely cover specified coverage area. Connect the side-to-side or end-to-end clips of the paver to form an integrated mat layer.
3. After assembling the paver network, re-examine all paver fittings around surface utilities and bordering structures to assure 1" clearance. Do this prior to soil fill or planting.

Planting – Sod, Seed, or Hydro-seeding

The primary methods of planting are:

1. Sod: a) **Top dressing with sod:** (Most popular) The paver grid is filled with soil or sandy loam, back raked to top of cell walls and watered moderately. If the cells fill settles below the top of the paver cells after watering, should be back-filled with additional soil or sandy loam to provide an even surface. The surface is now ready for sod to be laid in a staggered pattern on top of the planting surface. Water the sod and set a watering schedule.

b) **Recessed sod planting:** (Typical for high traffic areas) Using 3/4" or 1" sod, (do not add soil to paver grid) lay sod in staggered pattern over the paver grid. Water the sod (saturate) in preparation for compression into the paver cells. Use a hand or power driven water roller to compress the sod and root system into the cell structure of the paver mat. Set a watering schedule. When using a roller, follow all manufacturer's operating, maintenance, and safety instructions.

2. Seeding or hydro-seeding: Fill the paver grid with soil or sandy loam, back-rake to top of cell walls, and water generously. If fill settles below the top of the paver cells after watering, back-fill with additional soil or sandy loam to provide an even planting surface. The surface is now ready for seed and fertilizer to be broadcast or hydro-seeded over the paver grid work. Water the area and set a watering schedule.

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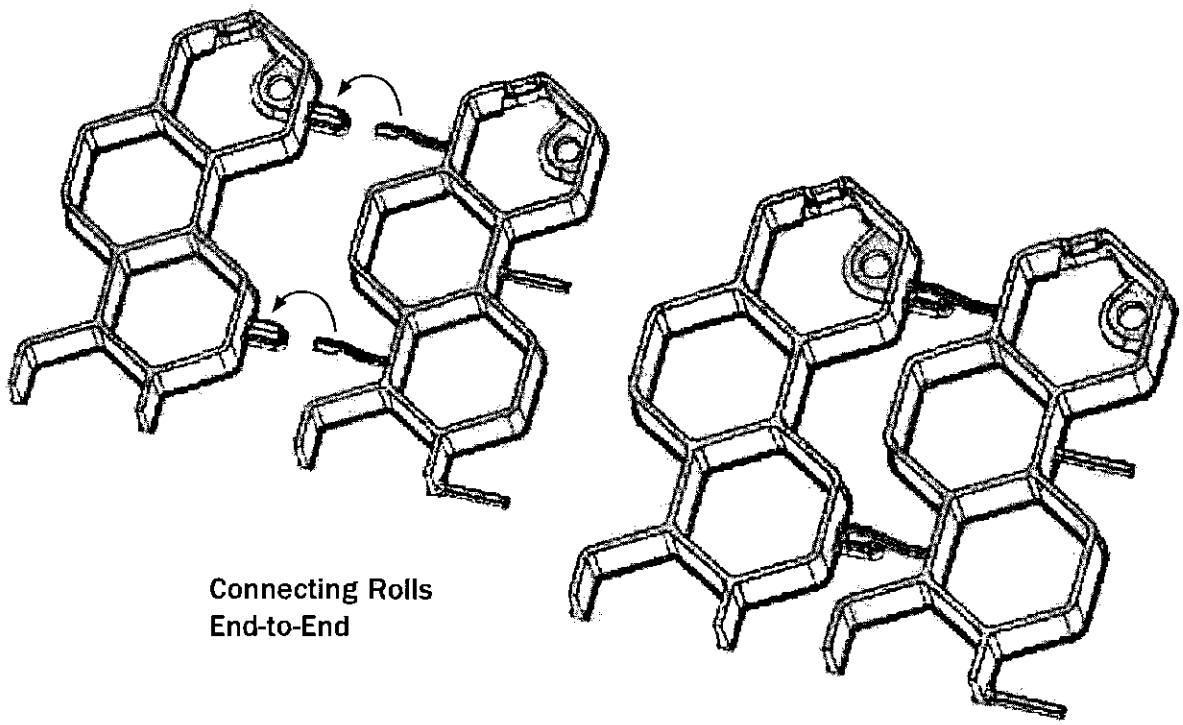
EZ ROLL™ GRASS PAVERS



3. Select a turf variety well suited to the anticipated traffic frequency and local growing conditions.
   a) For example, faster growing varieties are preferred for light traffic applications (quickly regenerates blades bent by traffic). Seasonal rye grass and tall fescues may be preferred over slower growing blue grass turf varieties.
   b) Resistance to thatch build-up, drought and disease resistance should be considered too.
4. Seeded or Sodded areas should be protected from non-emergency traffic for 4 to 6 weeks or until the grass is sufficiently established to handle traffic.
5. Planting type for load applications:
   a) Seeded grass pavers should be filled to the top of the cell wall.
   Seeding is recommended for light to moderate traffic applications.
   b) Sodded grass pavers should be filled with soil to the top of the cell walls (for top planting method). Sodding is recommended for emergency traffic applications.
6. Grass paved areas must have irrigation systems sufficient to maintain year-round healthy turf.
7. When planting trees nearby a grass paver surface, it is advisable to install a root barrier product around the root ball to prevent shallow roots from interfering with surface integrity or the road base. ShawtownTM root barrier products are recommended.
8. When **EZ Roll**™ Grass Pavers are installed bisecting a large lawn or grass field to provide a service road, it is recommended to plant shrubs or trees to mark the ends and edges of the grass paved strip. This guides service vehicle drivers to stay on the grass paved strip whenever they have to traverse the large lawn or grass field.

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Email: nds@ndspro.com • Website: www.ndspro.com

EZ ROLL™ GRAVEL PAVERS

STAKE Specifications

Description	GPSTAKE
Length	12"
Diameter	3/8"
Headsize	3/4"
Point	Diamond
Shank	Smooth/Ring
Steel	C1004-C1008
Coating	Bright Dipped Galvanized
ASTM Specifications	GPSTAKE conforms to ASTM F1667

TECHNICAL SPECIFICATION GU