



PREFERRED ENVIRONMENTAL SERVICES

323 Merrick Avenue - North Merrick, New York 11566

Tel: (516) 546-1100

Fax : (516) 213-8156

December 5, 2013

Mr. Ryan Piper, Case Manager
New York State Department of Environmental Conservation, Region 2
47-40 21st Street
Long Island City, New York 11101

Re: **Diesel Fuel Spill Remediation - Spill No. 13-06438**
Industrial Property
57-00 47th Street, Maspeth, New York

Dear Mr. Piper:

This letter summarizes recent spill remediation activities performed by Preferred Environmental Services (Preferred), in concert with Almar Supplies Inc. (Almar), to address a release of diesel fuel associated with New York State Department of Environmental Conservation (NYSDEC) Spill No. 13-06438. Spill No. 13-06438 was assigned on September 19, 2013 due to the identification of diesel fuel-contaminated pea-gravel, surrounding fill piping, during the removal of an out-of-service (OOS) 4,000-gallon single wall fiberglass Underground Storage Tank (UST) at the industrial property located at 57-00 47th Street, Maspeth, New York (Subject Property).

UST removal and subsequent remedial work was performed on September 19, 2013 by Almar, in conjunction with their Fire Department of New York-permitted tank removal contractor AARCO Environmental Services (AARCO), with environmental oversight provided by Preferred. All remedial work was performed in accordance with a verbal work scope provided to the NYSDEC representative (Mr. Ryan Piper) at the time of the UST removal/spill assignment. A photographic log is included as an attachment as well as a detailed Figures (**Figures 1-3**) to document the spill remediation.

Project Background

The former 4,000-gallon single wall fiberglass diesel fuel UST (listed as Tank No. 001 on the Petroleum Bulk Storage Permit 2-318744) had been reportedly out-of-service for approximately one year. The UST was reportedly installed in 1985 and was last successfully integrity tested via a five (5) year precision test on February 14, 2011 by Henrich/Dry As-A-Bone.

On July 30, 2013, the property owner received a violation from the City of New York Fire Department (FDNY) for *"the failure to perform a two (2) year functionality test of the leak detecting system protecting the motor fuel storage system"* of the 4,000 gallon diesel fuel UST. In lieu of re-testing, the leak detection system, the property owner voluntarily decided to remove the UST as it was no longer needed.

UST Removal and Diesel Fuel Spill Remediation

On September 19, 2013, Preferred, in conjunction with Almar and AARCO, removed the out-of-service 4,000-gallon UST from the ground. Prior to its removal, a total 350-gallons of residual diesel fuel and sludge was removed from within the UST, utilizing an NYCRR Part 364-permitted vacuum truck for off-site transport and disposal. During the uncovering of the UST for removal purposes, pea-gravel containing diesel fuel odors, staining and elevated PID readings was noted surrounding former fill piping along the top of the UST. The NYSDEC was subsequently notified and Spill No. 13-06438 was assigned to the property. The UST was observed to be contained within a solid concrete vault.

Upon removal of the UST, no holes or cracks were noted along the UST shell other than those that were created during actual UST removal efforts. Staining was noted along a majority of the UST, likely associated with the limited release associated with the former fill piping along the top of the UST.

Pea-gravel contained within the concrete vault was noted to contain diesel fuel odors, staining and exhibited elevated PID readings. The pea-gravel was subsequently removed from within the vault and placed into a 20-yard roll-off container, awaiting off-site disposal. In addition, trapped water containing diesel fuel odors and sheens within the vault was also removed by a pump truck for proper off-site disposal. A total of 31.07 tons of diesel fuel impacted pea-gravel and 930 gallons of trapped water were removed from within the vault that was measured to extend to twelve (12) feet below grade surface (bgs), at which point the concrete floor of the vault was encountered. The vault was then cleaned and inspected and was noted to be in good condition with no visible holes or direct exposure to adjacent and/or underlying soils.

As requested by the NYSDEC, two (2) soil borings were advanced through the concrete base of the vault via a decontaminated stainless steel hand auger in order to assess underlying soil conditions. Soils encountered below the concrete vault consisted of dark brown to black silty sands with various fill material. Field screening of soils within the two soil borings (B-1 and B-2) confirmed the absence of petroleum impacted soils (e.g., odors, staining, elevated PID readings, etc) from the directly below the concrete vault located at 12.5 feet bgs to a depth of 13 feet bgs, at which point groundwater was encountered. Subsequently, two (2) soil samples (B-1 (12.5-13 ft bgs) and B-2 (12.5-13 ft bgs)) were collected for laboratory analysis. As verbally agreed upon with the NYSDEC, during a subsequent telephone conversation, sidewall soil samples were not required due to the presence of the concrete vault that was confirmed to possess integrity.

Waste Disposal

A total of 350-gallons of residual diesel fuel and 930-gallons of trapped oily water was transported by AARCO Environmental Services (NYR000107326) to the Advanced Waste and Water Technology, Inc. Facility located at 208 Rt. 109, Farmingdale, NY. A total of 31.07 tons of diesel fuel contaminated pea-gravel was transported by Rizzo Environmental Services, a Part 364 licensed waste transporter, in a 20-yard roll-off container to Clean Earth of Carteret disposal facility located at 24 Middlesex Avenue, Carteret, NJ. All waste manifests are included as **Appendix B**.

Endpoint Sampling Analytical Data

The two (2) soil samples (B-1 (12.5-13 ft bgs) and B-2 (12.5-13 ft bgs)) collected by Preferred's geologist were submitted for laboratory analysis for NYSDEC CP-51 List Volatile Organic Compounds (VOCs) by EPA Method 8260 and NYSDEC CP-51 List Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 to an NYSDOH-ELAP certified Laboratory (American Analytical Laboratories, LLC). Laboratory analytical data are included as **Appendix C**. Analytical results were then compared to Soil Clean-up Objectives (SCOs) for Fuel Oil Contaminated Soil NYSDEC CP-51/Soil Cleanup Guidance issued October 21, 2010.

As summarized in **Table 1**, only one (1) VOC compound (sec-Butylbenzene) was detected above its

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respective laboratory Method Detection Limits (MDLs) in both soil samples. However, sec-Butylbenzene was reported well below its associated NYSDEC CP-51 Soil Cleanup Objective (SCO) within both samples.

A number of SVOC compounds were reported above their respective MDLs within both endpoint soil samples, consistent with the fill like material observed below the concrete vault. Of the detected SVOC compounds, three (3) compounds (Benzo(a)anthracene at 1,100 µg/kg, Chrysene at 1,100 µg/kg and Indeno(1,2,3-c,d)pyrene at 570 µg/kg) were reported slightly above (well within one order of magnitude) their associated NYSDEC SCOs within endpoint soil sample B-2 at 12.5-13 ft bgs. Of the detected SVOC compounds in endpoint sample B-1(12.5-13 ft bgs), all were reported below or at their respective NYSDEC SCOs.

Summary and Conclusions

Spill remediation was conducted at the industrial property located at 57-00 47th Street, Maspeth, New York on September 19, 2013 in order to address NYSDEC Spill 13-06438. Remedial activities included the removal and disposal of 31.07 tons of diesel fuel impacted pea-gravel and 930 gallons of trapped water from within the former concrete vault. Laboratory analysis of one (1) endpoint soil sample (B-1(12.5-13 ft bgs)) collected directly below the concrete vault documented compliant soil conditions underlying the southern portion of the concrete vault. Although slight SVOC exceedances were reported within endpoint soil sample B-2 at 12.5-13 ft bgs, collected below the northern portion of the UST vault, these concentrations are just above their applicable SCOs, and are generally consistent with the fill material observed underlying the vault. Therefore, these marginal concentrations are not considered to be indicative of impacts due to the former UST and storage of diesel fuel.

Based upon the successful removal of diesel fuel impacted pea-gravel and trapped water within a solid concrete vault and the compliant soil conditions documented under the southern portion of the concrete vault and near compliant soil conditions under the northern portion of the concrete vault, as documented by endpoint soil samples, closure of NYSDEC Spill No. 13-06438 is respectfully requested.

Sincerely,

PREFERRED ENVIRONMENTAL SERVICES

Jill S. Haimson

Jill S. Haimson, CGWP, PG
Principal

Marc C. Morgenstern

Marc C. Morgenstern
Hydrogeologist/Project Manager

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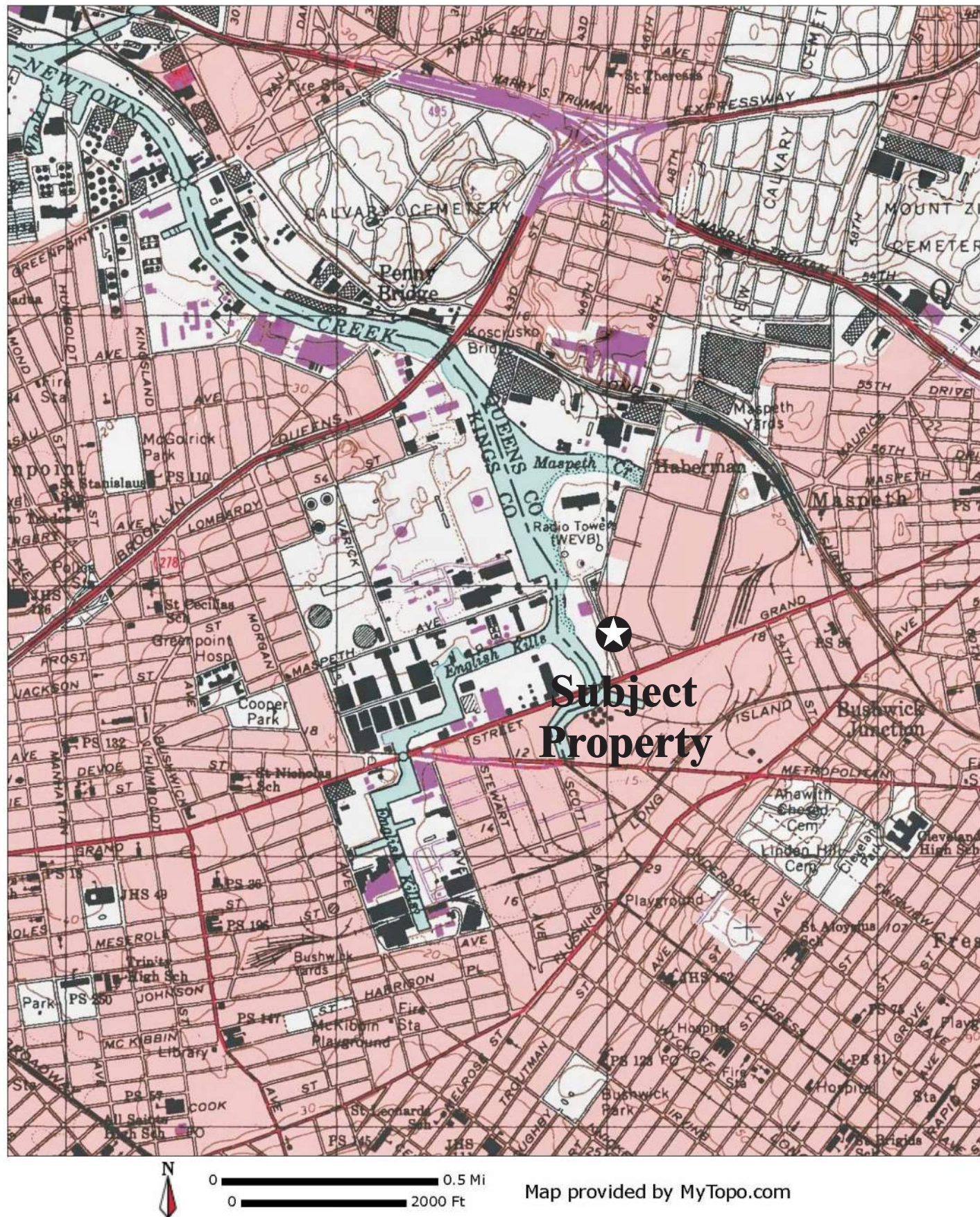


Figure 1 - Topographic Map

-Approximate Location
of Subject Property

Site: 57-00 47th Street
Maspeth, New York

Date: October 2, 2013

Source: United States Geologic Survey
Brooklyn, New York Quadrangle



Figure 2 - Aerial Photograph



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-Approximate
Location of
Property Line

Source: Google Maps

Site: 57-00 47th Street
Maspeth, New York

Date: 10/2/2013

Scale (ft): 0 100

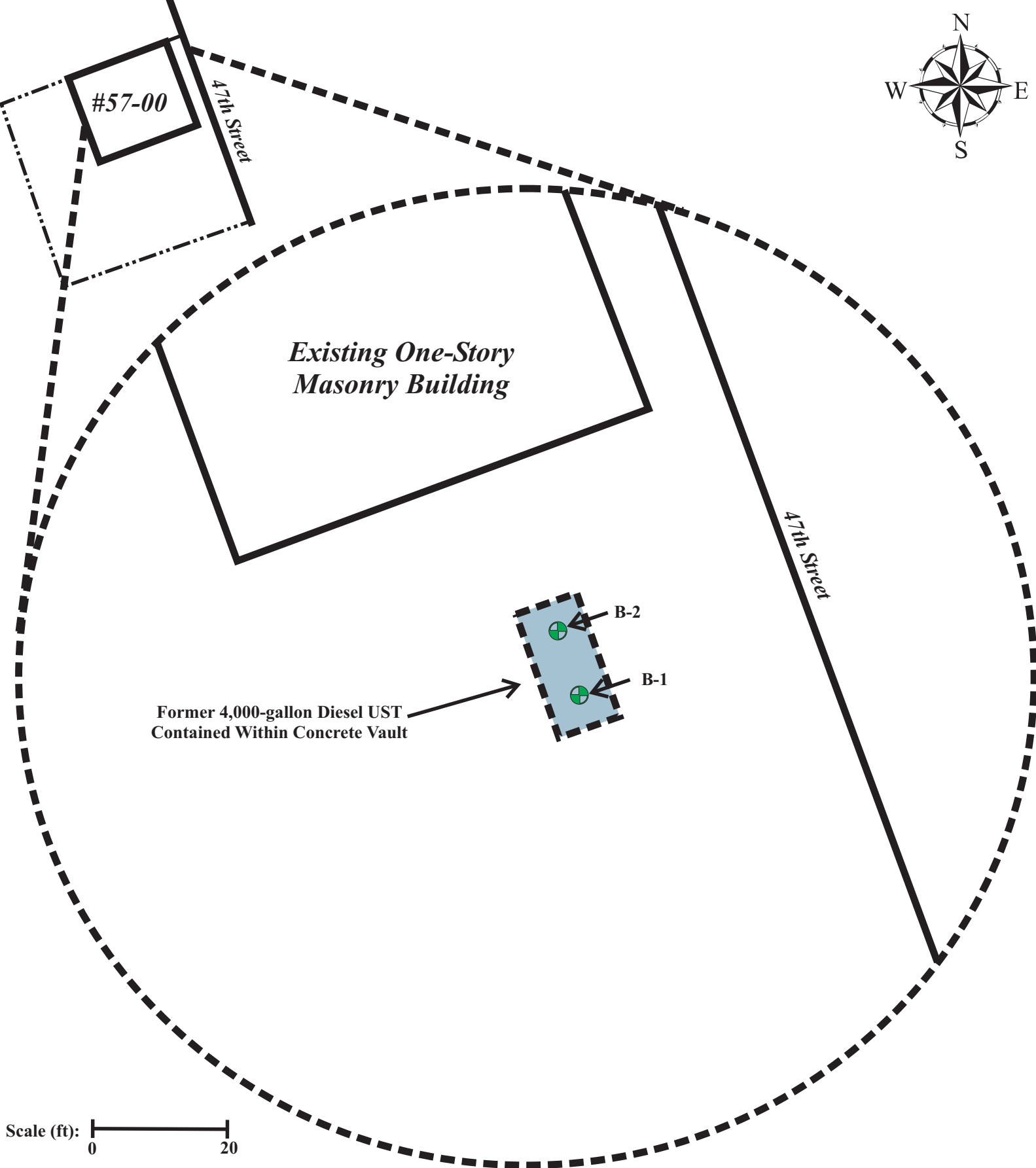
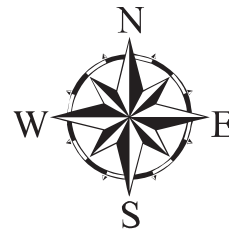


Figure 3 - Site Features and Sampling Locations



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- Location of Former 4,000-gallon UST and Associated Concrete Vault



- Endpoint Soil Sampling Location Through Bottom of Vault

Site: 57-00 47th Street
Maspeth, New York

Date: 10/9/2013

Table 1

NYSDEC CP-51 VOCs and SVOCs Detected In Endpoint Soil Samples

57-00 47th Street

Maspeth, New York

September 19, 2013

CP-51 Diesel Fuel Compounds VOCs (ug/kg) 8260	B-1 (12.5-13ft bgs)		B-2 (12.5-13ft bgs)		NYSDEC CP-51 SCO Guidance Value
	Result	Q	Result	Q	
1,2,4-Trimethylbenzene	ND		ND		3,600
1,3,5-Trimethylbenzene	ND		ND		8,400
4-Isopropyltoluene	ND		ND		10,000
Benzene	ND		ND		60
Ethylbenzene	ND		ND		1,000
Isopropylbenzene	ND		ND		2,300
m,p-Xylene	ND		ND		260
Methyl tert-butyl ether	ND		ND		NA
Naphthalene	ND		ND		12,000
n-Butylbenzene	ND		ND		12,000
n-Propylbenzene	ND		ND		3,900
o-Xylene	ND		ND		260
sec-Butylbenzene	1.1	J	1.5	J	11,000
tert-Butylbenzene	ND		ND		5,900
Toluene	ND		ND		700
CP-51 Diesel Fuel Compounds SVOCs (ug/kg) 8270	B-1 (12.5-13ft bgs)		B-2 (12.5-13ft bgs)		NYSDEC CP-51 SCO Guidance Value
	Result	Q	Result	Q	
Acenaphthene	ND		ND		20,000
Acenaphthylene	ND		ND		100,000
Anthracene	300		360		100,000
Benzo(a)anthracene	640		1,100		1,000
Benzo(a)pyrene	650		870		1,000
Benzo(b)fluoranthene	650		830		1,000
Benzo(g,h,i)perylene	470		520		100,000
Benzo(k)fluoranthene	480		660		800
Chrysene	750		1,100		1,000
Dibenzo(a,h)anthracene	120	J	140	J	330
Fluoranthene	1,600		2,300		100,000
Fluorene	ND		ND		30,000
Indeno(1,2,3-c,d)pyrene	500		570		500
Phenanthrene	920		1,100		100,000
Pyrene	1,400		2,300		100,000

Notes:

NYSDEC Standard CP-51 Soil Cleanup Objectives Guidance Issued October 21, 2010

Q- Qualifier for analyte

J- Analyte Detected Below Quantitation Limits

NA - Not Available

ND- Not Detected

VOCs - Volatile Organic Compounds

SVOCs - Semi-Volatile Organic Compounds

Bolded and highlighted values indicate detected above NYSDEC Standard CP-51 Soil Cleanup Objectives Guidance Value

APPENDIX A

Photographic Log

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Photograph No. 1- Front view of the industrial property located at 57-00 47th Street, Maspeth, New York.



Photograph No. 2 – Prior to the removal of the 4,000-gallon Diesel UST, approximately 350 gallons of residual diesel and sludge was removed from within UST via a pump truck for proper disposal.



Photograph No. 3 – While uncovering the UST, stained pea-gravel exhibiting diesel fuel odors and elevated PID readings were observed surrounding the former fill piping. The NYSDEC was notified and Spill No. 13-06438 was assigned to the property.



Photograph No. 4 – Upon completion of the removal of all liquids from within the UST, the UST subsequently removed from the ground.



Photograph Nos. 5 & 6- Inspection of the 4,000-gallon single-wall fiberglass UST noted the absence of any holes or cracks that did not appear to be sustained during the removal efforts.





Photograph No. 7 – The UST was contained within a solid concrete vault extending to twelve (12) feet below grade surface (bgs). Pea-gravel and trapped water contained within the vault was noted to contain diesel fuel odors, staining and exhibited elevated Photoionization Detector (PID) responses.



Photograph Nos. 8 & 9 - Both the pea-gravel and trapped water were removed from within the vault for off-site disposal.



Photograph Nos. 10 & 11 - As discussed with the NYSDEC, two (2) bottom samples were collected through the concrete floor of the vault in order to determine the environmental condition of underlying soils.



Photograph No. 12- Field screening of soils underlying the concrete vault noted the presence of fill material absent of diesel odors and elevated PID responses.

APPENDIX B

Waste Manifests, Weight Tickets and Liquid Tickets

Preferred Environmental Services

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Manifest # 728429

GLOBAL JOB NUMBER: 131647

FACILITY APPROVAL NUMBER: 133071578

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633☐ Other

_____☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: 5700 MacArthur Ave LLC 57-00 47th Street Hempstead, NY 11378	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards 99,640
GENERATOR'S PHONE: 718-456-8636	TARE WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards 37,500
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards 31.07

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Diesel Fuel Contaminated Rec Gravel

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: R. J. Rizzo

Title: V.P.

Signature: [Signature]

Date and Time: 10/8/13

TRANSPORTER

Company: Rizzo Environmental Service

Phone Number: 800-835-1445

Address: 5700 47th Street Hempstead

Truck # and License Plate: X 24-20098-PB

Driver: X Enrique Cedeno

SW Haulers Permit #: 1A-997

(Type or Print Clearly)

(applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: X Enrique Cedeno

Date and Time: X 10-14-13 7:00 AM

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Enrique Cedeno

Date and Time: 10-14-13 7:00 AM

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature]

Date and Time: 10/14/13

TRANSPORTER

Clean Earth of Carteret

24 Middlesex Avenue

Carteret, NJ 07006

Ph: (732) 541-8909 Fax: (732) 541-8165

Ticket: 567600599114

Date

Time

Scale

In: 10/14/2013 07:14:55 Manual 0

Out: 10/14/2013 07:15:55 P.T.

Manifest: 720429

Vehicle ID: R122024

Lbs

Tns

Gross: 59640 49.62

Tare: 37500 18.75

Net: 62140 31.67

Customer: RIZZO ENVIRONMENTAL SERV

Facility Approval#: 133071570

Generator: 5700 Haspath Ave LLC

Job Name: 5700 Haspath Ave LLC 47th St

Gen Address: 57-00 47th Street

Job Address: 57-00 47th Street

Haspath, NJ 11378

Haspath, NY 11378

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Queens	Soil Treatment Type 11	31.67	Tns
--------	------------------------	-------	-----

Contaminate Type: 2 Oil

Treatment Type: Bio

Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: _____

Enrique

Facility: _____

Lukasz Ceglarek

13-20038 2nd trip

NON-HAZARDOUS WATER MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	
3. Generator's Name and Mailing Address Almar Materials 57-00 47th St Maspeth NY					
4. Generator's Phone ()		10-727			
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N.Y.R. 0,0,0,1,0,7,3,2,6	A. Transporter's Phone 631-586-5900		
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address AWWT 208 Rte 109 Farmville NY		10. US EPA ID Number	C. Facility's Phone		
11. Waste Shipping Name and Description a. water contaminated with Petroleum NO18 b. c. d.			12. Containers	13. Total Quantity	14. Unit Wt/Vol
			No.	Type	
D. Additional Descriptions for Materials Listed Above V503			E. Handling Codes for Wastes Listed Above S14		
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name		Signature		Month Day Year	
X		X		10.9.11.8113	
17. Transporter 1 Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
Dave Schandboom		D Schandboom		10.9.11.8113	
18. Transporter 2 Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.					
Printed/Typed Name		Signature		Month Day Year	
Chris Brown		CB		10.9.11.8113	

ORIGINAL - RETURN TO GENERATOR

13-20038 1ST Trip

NON-HAZARDOUS WATER MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
3. Generator's Name and Mailing Address Almar Materials 67-00 47th St Massena NY				
4. Generator's Phone ()		1A-727		
5. Transporter 1 Company Name AARCO ENVIRONMENTAL SERVICES CORP.		6. US EPA ID Number N.Y.R. 0.0.0.1.0.7.3.2.6		A. Transporter's Phone 631-586-5900
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Site Address AWMT 208 Rte 109 Farmingdale NY 11735		10. US EPA ID Number		C. Facility's Phone
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity 14. Unit Wt/Vol
a. water contaminated with Petroleum No 18			0.01 TT	3.50 G
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above V503			E. Handling Codes for Wastes Listed Above S14	
15. Special Handling Instructions and Additional Information EMERGENCY PHONE # 631-586-5900				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year 10/9/13
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Month Day Year 10/9/13
Printed/Typed Name Dave Schauborn		Signature [Signature]		Month Day Year 10/9/13
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.				
Printed/Typed Name Chris Brown		Signature [Signature]		Month Day Year 10/9/13

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

APPENDIX C

Confirmatory Endpoint Soil Sample Data

Preferred Environmental Services

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Thursday, September 26, 2013

Bill Schlageter
Preferred Environmental Services
323 Merrick Avenue
North Merrick, NY 11566

TEL: (516) 546-1100

FAX (516) 213-8213

RE: 57-00 47th St., Maspeth, NY

Order No.: 1309098

Dear Bill Schlageter:

American Analytical Laboratories, LLC. received 2 sample(s) on 9/20/2013 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report.

The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. This report consists of 11 pages.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,


Lori Beyer
Lab Director

American Analytical Laboratories, LLC.**Date:** 26-Sep-13

CLIENT: Preferred Environmental Services
Project: 57-00 47th St., Maspeth, NY
Lab Order: 1309098

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date Collected	Date Received
1309098-01A	B-1 (12.5-13ft bgs)	9/19/2013 3:00:00 PM	9/20/2013
1309098-01B	B-1 (12.5-13ft bgs)	9/19/2013 3:00:00 PM	9/20/2013
1309098-02A	B-2 (12.5-13ft bgs)	9/19/2013 3:15:00 PM	9/20/2013
1309098-02B	B-2 (12.5-13ft bgs)	9/19/2013 3:15:00 PM	9/20/2013

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

[illegible]

American Analytical Laboratories, LLC.

Sample Receipt Checklist

Client Name **PREFERRED**

Date and Time Receive **9/20/2013 3:34:27 PM**

Work Order Numbe **1309098**

RcptNo: **1**

Received by **CF**

COC_ID:

CoolerID:

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name Courier

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Presen ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Presen ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Presen ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☐

Adjusted? _____

Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments:

Corrective Action

CLIENT: Preferred Environmental Services
Project: 57-00 47th St., Maspeth, NY
Lab Order: 1309098

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers.

Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Volatile LCS are analyzed with preservatives - HCL/NaHSO₄/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical reports is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. American Analytical is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt for those samples that were not collected by NYS ELAP certified laboratory personnel. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



Lori Beyer
Laboratory Director

American Analytical Laboratories, LLC.

Date: 26-Sep-13

ELAP ID : 11418

CLIENT: Preferred Environmental Services

Client Sample ID: B-1 (12.5-13ft bgs)

Lab Order: 1309098

Collection Date: 9/19/2013 3:00:00 PM

Project: 57-00 47th St., Maspeth, NY

Matrix: SOIL

Lab ID: 1309098-01A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 8260 (GASOLINE)			SW8260C		SW5035A		Analyst: LA
1,2,4-Trimethylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
1,3,5-Trimethylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
4-Isopropyltoluene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Benzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Ethylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Isopropylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
m,p-Xylene	U	1.77	8.9		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Methyl tert-butyl ether	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Naphthalene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
n-Butylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
n-Propylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
o-Xylene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
sec-Butylbenzene	1.1	0.89	4.4	J	µg/Kg-dry	1	9/23/2013 5:45:00 PM
tert-Butylbenzene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Toluene	U	0.89	4.4		µg/Kg-dry	1	9/23/2013 5:45:00 PM
Surr: 4-Bromofluorobenzene	80.9	0	56-133		%REC	1	9/23/2013 5:45:00 PM
Surr: Toluene-d8	93.1	0	69-125		%REC	1	9/23/2013 5:45:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 26-Sep-13

ELAP ID : 11418

CLIENT: Preferred Environmental Services
Lab Order: 1309098
Project: 57-00 47th St., Maspeth, NY
Lab ID: 1309098-01B

Client Sample ID: B-1 (12.5-13ft bgs)
Collection Date: 9/19/2013 3:00:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE							
Percent Moisture	17.3	0	0	N	wt%	1	Analyst: CF 9/24/2013
SEMIVOLATILE SW-846 METHOD 8270 (FUEL)							
			D2216				Analyst: MH
							SW8270D SW3546
Acenaphthene	U	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Acenaphthylene	U	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Anthracene	300	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Benzo(a)anthracene	640	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Benzo(a)pyrene	650	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Benzo(b)fluoranthene	650	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Benzo(g,h,i)perylene	470	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Benzo(k)fluoranthene	480	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Chrysene	750	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Dibenzo(a,h)anthracene	120	29.6	300	J	µg/Kg-dry	1	9/26/2013 4:32:00 AM
Fluoranthene	1600	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Fluorene	U	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Indeno(1,2,3-c,d)pyrene	500	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Phenanthrene	920	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Pyrene	1400	29.6	300		µg/Kg-dry	1	9/26/2013 4:32:00 AM
Surr: 2-Fluorobiphenyl	59.7	0	22-146		%REC	1	9/26/2013 4:32:00 AM
Surr: 4-Terphenyl-d14	63.0	0	14-149		%REC	1	9/26/2013 4:32:00 AM
Surr: Nitrobenzene-d5	59.0	0	14-148		%REC	1	9/26/2013 4:32:00 AM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 26-Sep-13

ELAP ID : 11418

CLIENT: Preferred Environmental Services
Lab Order: 1309098
Project: 57-00 47th St., Maspeth, NY
Lab ID: 1309098-02A

Client Sample ID: B-2 (12.5-13ft bgs)
Collection Date: 9/19/2013 3:15:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 8260 (GASOLINE)			SW8260C		SW5035A		Analyst: LA
1,2,4-Trimethylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
1,3,5-Trimethylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
4-Isopropyltoluene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Benzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Ethylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Isopropylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
m,p-Xylene	U	1.76	8.8		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Methyl tert-butyl ether	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Naphthalene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
n-Butylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
n-Propylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
o-Xylene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
sec-Butylbenzene	1.5	0.88	4.4	J	µg/Kg-dry	1	9/23/2013 6:11:00 PM
tert-Butylbenzene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Toluene	U	0.88	4.4		µg/Kg-dry	1	9/23/2013 6:11:00 PM
Surr: 4-Bromofluorobenzene	69.0	0	56-133		%REC	1	9/23/2013 6:11:00 PM
Surr: Toluene-d8	87.8	0	69-125		%REC	1	9/23/2013 6:11:00 PM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

American Analytical Laboratories, LLC.

Date: 26-Sep-13

ELAP ID : 11418

CLIENT: Preferred Environmental Services
Lab Order: 1309098
Project: 57-00 47th St., Maspeth, NY
Lab ID: 1309098-02B

Client Sample ID: B-2 (12.5-13ft bgs)
Collection Date: 9/19/2013 3:15:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE							
Percent Moisture	17.2	0	0	N	wt%	1	Analyst: CF 9/24/2013
SEMIVOLATILE SW-846 METHOD 8270 (FUEL)							
			D2216				Analyst: MH
			SW8270D				
			SW3546				
Acenaphthene	U	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Acenaphthylene	U	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Anthracene	360	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Benzo(a)anthracene	1100	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Benzo(a)pyrene	870	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Benzo(b)fluoranthene	830	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Benzo(g,h,i)perylene	520	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Benzo(k)fluoranthene	660	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Chrysene	1100	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Dibenzo(a,h)anthracene	140	29.8	300	J	µg/Kg-dry	1	9/26/2013 4:58:00 AM
Fluoranthene	2300	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Fluorene	U	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Indeno(1,2,3-c,d)pyrene	570	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Phenanthrene	1100	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Pyrene	2300	29.8	300		µg/Kg-dry	1	9/26/2013 4:58:00 AM
Surr: 2-Fluorobiphenyl	57.9	0	22-146		%REC	1	9/26/2013 4:58:00 AM
Surr: 4-Terphenyl-d14	64.0	0	14-149		%REC	1	9/26/2013 4:58:00 AM
Surr: Nitrobenzene-d5	55.4	0	14-148		%REC	1	9/26/2013 4:58:00 AM

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Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte
	E	Value above quantitation range	H	Holding time was exceeded
	J	Analyte detected below quantitation limits	LOD	Limit of Detection
	LOQ	Limit of Quantitation	N	Parameter not offered by NY ELAP
	P	>40% diff for detected conc between the two GC columns	S	Spike Recovery outside accepted recovery limits
	U	Compound was analyzed but not detected.		

CLIENT: Preferred Environmental Services

Work Order: 1309098

Project: 57-00 47th St., Maspeth, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRY8260GAS_SOIL

Sample ID: LCS-41873	SampType: LCS	TestCode: DRY8260GAS	Units: µg/Kg	Prep Date: 9/23/2013	RunNo: 70469						
Client ID: LCSS	Batch ID: 41873	TestNo: SW8260C	SW5035A	Analysis Date: 9/23/2013	SeqNo: 1005277						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	43	5.0	50.00	0	86.5	36	126				
Ethylbenzene	34	5.0	50.00	0	68.1	42	124				
Toluene	38	5.0	50.00	0	76.7	43	121				
Surr: 4-Bromofluorobenzene	51		50.00		103	56	133				
Surr: Toluene-d8	50		50.00		101	69	125				

Sample ID: MB-41873	SampType: MBLK	TestCode: DRY8260GAS	Units: µg/Kg	Prep Date: 9/23/2013	RunNo: 70469						
Client ID: PBS	Batch ID: 41873	TestNo: SW8260C	SW5035A	Analysis Date: 9/23/2013	SeqNo: 1005278						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trimethylbenzene	U	5.0									
1,3,5-Trimethylbenzene	U	5.0									
4-Isopropyltoluene	U	5.0									
Benzene	U	5.0									
Ethylbenzene	U	5.0									
Isopropylbenzene	U	5.0									
m,p-Xylene	U	10									
Methyl tert-butyl ether	U	5.0									
Naphthalene	U	5.0									
n-Butylbenzene	U	5.0									
n-Propylbenzene	U	5.0									
o-Xylene	U	5.0									
sec-Butylbenzene	U	5.0									
tert-Butylbenzene	U	5.0									
Toluene	U	5.0									
Surr: 4-Bromofluorobenzene	48		50.00		96.2	56	133				
Surr: Toluene-d8	47		50.00		94.8	69	125				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

C Calibration acceptability criteria exceeded for this analyte
LOD Limit of Detection
S Spike Recovery outside accepted recovery limits

H Holding time was exceeded
LOQ Limit of Quantitation
U Compound was analyzed but not detected

CLIENT: Preferred Environmental Services
Work Order: 1309098
Project: 57-00 47th St., Maspeth, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRY8270FUEL_SOIL

Sample ID: MB-41897	SampType: MBLK	TestCode: DRY8270FUE	Units: µg/Kg	Prep Date: 9/25/2013	RunNo: 70494						
Client ID: PBS	Batch ID: 41897	TestNo: SW8270D	SW3546	Analysis Date: 9/25/2013	SeqNo: 1005651						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	U	240									
Acenaphthylene	U	240									
Anthracene	U	240									
Benzo(a)anthracene	U	240									
Benzo(a)pyrene	U	240									
Benzo(b)fluoranthene	U	240									
Benzo(g,h,i)perylene	U	240									
Benzo(k)fluoranthene	U	240									
Chrysene	U	240									
Dibenzo(a,h)anthracene	U	240									
Fluoranthene	U	240									
Fluorene	U	240									
Indeno(1,2,3-c,d)pyrene	U	240									
Phenanthrene	U	240									
Pyrene	U	240									
Surr: 2-Fluorobiphenyl	680		975.6		69.2	22	146				
Surr: 4-Terphenyl-d14	920		975.6		94.2	14	149				
Surr: Nitrobenzene-d5	680		975.6		69.4	14	148				

Sample ID: LCS-41897	SampType: LCS	TestCode: DRY8270FUE	Units: µg/Kg	Prep Date: 9/25/2013	RunNo: 70494						
Client ID: LCSS	Batch ID: 41897	TestNo: SW8270D	SW3546	Analysis Date: 9/25/2013	SeqNo: 1005652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	1300	250	1965	0	67.4	35	134				
Acenaphthylene	1400	250	1965	0	72.0	24	136				
Anthracene	1400	250	1965	0	70.2	33	135				
Benzo(a)anthracene	1400	250	1965	0	70.0	35	134				
Benzo(a)pyrene	1300	250	1965	0	64.0	39	134				
Benzo(b)fluoranthene	1400	250	1965	0	69.0	30	135				
Benzo(g,h,i)perylene	1300	250	1965	0	68.4	23	144				
Benzo(k)fluoranthene	1300	250	1965	0	68.0	30	141				

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J		Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected

CLIENT: Preferred Environmental Services
Work Order: 1309098
Project: 57-00 47th St., Maspeth, NY

ANALYTICAL QC SUMMARY REPORT

TestCode: DRY8270FUEL_SOIL

Sample ID: LCS-41897		SampType: LCS		TestCode: DRY8270FUE		Units: µg/Kg		Prep Date: 9/25/2013		RunNo: 70494		
Client ID: LCSS		Batch ID: 41897		TestNo: SW8270D		SW3546		Analysis Date: 9/25/2013		SeqNo: 1005652		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene		1400	250	1965	0	69.3	25	137				
Dibenzo(a,h)anthracene		1400	250	1965	0	70.4	15	135				
Fluoranthene		1200	250	1965	0	58.7	22	132				
Fluorene		1400	250	1965	0	68.8	23	135				
Indeno(1,2,3-c,d)pyrene		1300	250	1965	0	67.3	30	156				
Phenanthrene		1300	250	1965	0	67.6	32	145				
Pyrene		1500	250	1965	0	78.5	20	155				
Surr: 2-Fluorobiphenyl		670		982.3		68.4	22	146				
Surr: 4-Terphenyl-d14		730		982.3		74.5	14	149				
Surr: Nitrobenzene-d5		720		982.3		72.8	14	148				

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calibration acceptability criteria exceeded for this analyte	H	Holding time was exceeded
J		Analyte detected below quantitation limits	LOD	Limit of Detection	LOQ	Limit of Quantitation
R		RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits	U	Compound was analyzed but not detected