P.W. GROSSER CONSULTING

January 25, 2011

Ms. Heather Bishop
Project Manager
Division of Environmental Remediation
Spill Prevention & Response
Remedial Bureau A, 11th Floor
625 Broadway
Albany, NY 12233-7015

Ms. Nichole Hart
Project Manager
Division of Environmental Remediation
Spill Prevention & Response
50 Circle Road
Stony Brook, NY 11790-3409

RE: 1,500 Gallon Underground Storage Tank Removal
NYSDEC Spill# 10-09448
Suffolk County Baumann Bus Site – Airport Development District
Gabreski Airport – Westhampton Beach, New York

Dear Ms. Bishop / Ms. Hart:

In the course of conducting the remedial action for the Baumann Bus site, P.W. Grosser Consulting, Inc. (PWGC) encountered an underground storage tank (UST). During the removal of the tank, some evidence of petroleum impact was encountered and a spill was reported to the New York State Department of Environmental Conservation (NYSDEC) and spill number 10-09448 was assigned to the site. PWGC has prepared this letter to summarize the events that led to the discovery of the tank, summarize the tank and impacted soil removal activities, and the results which support the spill file closure.

Background

The above noted tank was located within the former Baumann Bus site located at Gabreski Airport, Westhampton, New York. The former Baumann Bus site is in the Voluntary Cleanup Program (VCA#V00675) and is currently undergoing remediation. Site remedial activities include the removal of approximately 25,000 cubic yards of clean overburden in order to remove approximately 3,500 tons of petroleum impacted soils located at and below the water table which exceed the Part 375 Restricted Residential Standard. It was during the removal of the overburden when the tank was encountered.

Tank Removal

On November 22, 2010 while clearing the site in preparation of driving the shoring sheets, suspected tank piping was encountered. Further digging revealed a UST. No contamination was encountered at this time. The tank was found to contain petroleum impacted water. As the crew was not prepared to remove the tank at that time, the top of the tank was re buried in

order to protect the tank and the area was marked so that it could easily be found in the future. Historic site maps depict a 1,500 gallon MOGAS tank where this UST was encountered (copy of map attatched).

In order to further assess the tank conditions so that the proper equipment could be brought in to remove the tank, the top and sides of the tank were exposed on November 29, 2010. The tank was found to be 16' long by 4' in diameter which equates to 1,500 gallon capacity. No impacted soil was encountered in the vicinity of the tank. The tank was found to be in poor condition with several dents and heavy rust. Due to concerns that the tank would leak, the liquid contents were pumped from the tank by Fenley & Nicol. A total of 989 gallons of liquid waste were generated. A copy of the liquid waste manifest is attached.

On December 3, 2010 the tank was removed from the excavation by Posillico (the contractor conducting the Baumann Bus remediation). The tank was set next to the excavation on asphalt so that it could be cut and cleaned for removal by Fenley & Nicol. The tank was found to be approximately 1/3 full of sludges and sand. Four and a half yards of sediment were removed with a vactor truck. Sediment manifests are attached. Following cleaning, an approximately one inch diameter hole was observed on the side of the tank.

Eva Bodula of the Suffolk County Department of Health Services (SCHDS) was onsite to witness the removal of the tank and examine the excavation. Mrs. Bodula identified some potentially impacted soils beneath the tank. The potently impacted soils were brown/gray in color, had a slight petroleum odor, and had a PID response of 2.5 ppm. Due to the presence of such soils, PWGC contacted the NYSDEC spill hotline and Spill# 10-09448 was assigned. Due to the limited nature of the potential impacts and that the tank area is within the Baumann Bus Remedial area, the following actions were conducted with the SCDHS oversight / direction in order to prevent the UST from causing delays to the Baumann Bus project as a whole:

- A sample of the soils located directly beneath the tank was collected to determine the pre-remedial conditions and assess the disposal route for the soils. The samples were submitted for analysis for VOCs and SVOCS (STARS List)
- Using the excavator, potentially impacted soils beneath the former tank were removed. Approximately 2-3 yards of soil were removed from the area. These soils were stockpiled onsite segregated from other site soils, pending laboratory analysis. Clean soils with no odors were encountered approximately one foot below the former tank location. These soils were inspected by PWGC and SCDHS personnel and further excavation was deemed not to be warranted.
- An endpoint sample of the clean soil located one foot beneath the tank was collected under the oversight of Mrs. Bodula. This sample was analyzed for VOCs and SVOCs (STARS List) as well.

Given the limited impacts and that the remedial effort appeared effective; the former tank area was released to Posillico so that they can continue the excavation for the Baumann Bus Remedial Action.

Photos of the tank removal activities and a copy of the SCDHS inspection form are attached.

Analytical Results

Analytical results from the sample collected directly beneath the tank and from the base of the excavation following soil removal are summarized in Table 1. Analytical results were compared to the unrestricted use soil cleanup objectives (SCOs) contained within NYSDEC Commissioner Protocol #51 (CP-51) Table #3 "Soil Cleanup Levels of Fuel Oil Contaminated Soils". As shown in Table 1, the sample from beneath the tank contained one VOC and 2 SVOC compounds which were detected above their respective method detection limits, however the detections were well below their respective SCOs. The analytical results from the endpoint sample were non detect for each of the VOC and SVOC compounds analyzed for.

Waste Disposal

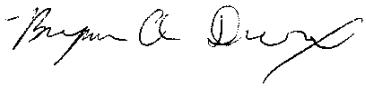
The material stockpiled from beneath the UST was compatible with the materials being disposed of for the remediation at the former Baumann Bus site. The soils were mixed in with these soils in the drying bed and properly disposed of. Liquids and sludge from the USTs were properly disposed of by Fenley & Nicol. Waste manifests are attached.

CONCLUSIONS AND RECOMMENDATIONS

One 1,500-gallon UST was removed from the former Baumann Bus site. Analytical results of soils directly beneath the UST were within NYSDEC unrestricted use SCOs. Since the UST has been properly closed and there is no evidence of subsurface impact associated with the UST, PWGC recommends closure of spill 10-09448.

If you have any questions regarding the tank removal please contact me at (631) 589-6353.

Very truly yours,
P.W. Grosser Consulting, Inc.



Bryan A Devaux
Senior Project Manager

cc:
James Meyers, SCDHS
Janet Gremli, SCDHS
Heather Bishop, NYSDEC
Ray Muxo, SCDPW
Gabe Gallo, SCDPW
Marty McMorrow, SCDPW
Thomas Szumcsyk, SCDPW

Photos



Photo 1 – Tank piping and top of tank as encountered on November 22, 2010



Photo 2 – Tank was exposed on November 29, 2010 to assess the size.



Photo 3 – Tank removed from the excavation on December 3, 2010.



Photo 4 – Close up view of tank showing hole location (center of photo)



Photo 5 – Tank interior following cleaning.



Photo 6 – Based of the excavation following tank removal.

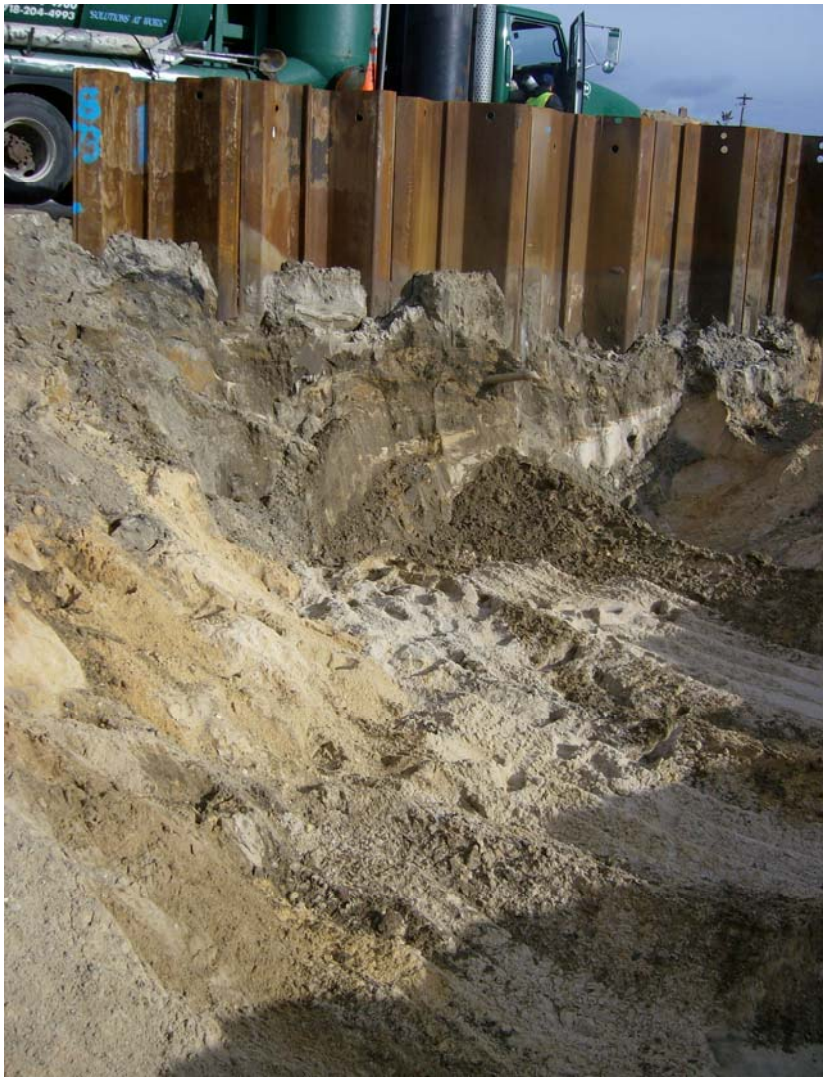
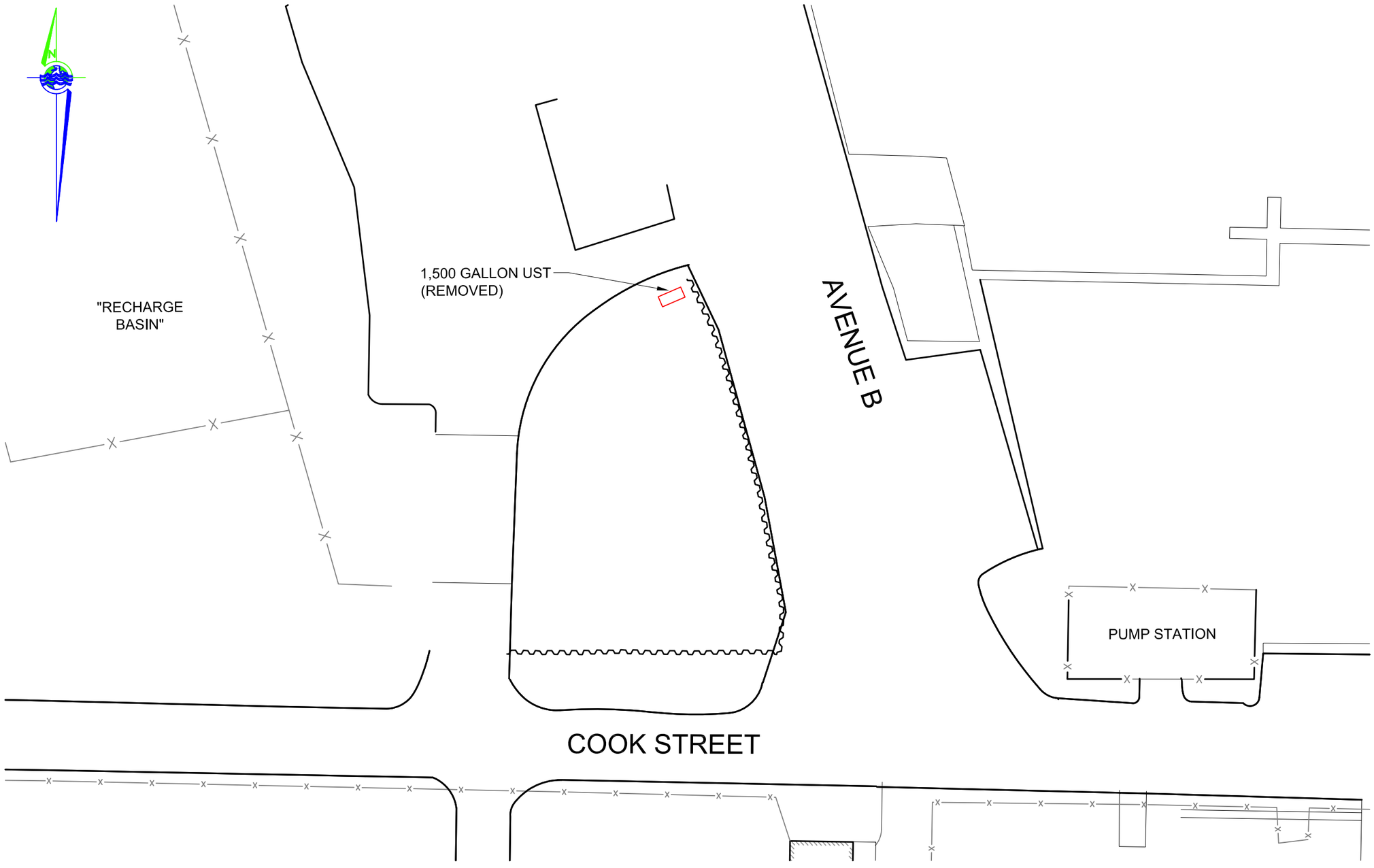


Photo 7 – Base of excavation following removal of potentially impacted soils.

Figure



LEGEND

SHORING

1,500 GALLON UST REMOVAL

SCALE: 1" = 40'

0 40 80

SCALE: 1" = 40'

J:\Projects S-Z\SHD\1006 - Baumann Remedial Oversight\cad\Fig 1 11-24-10.dwg (11X17) Jan 24,2011-8:42am By: guzman

PWGC
Strategic Environmental & Engineering Solutions

630 JOHNSON AVE. • SUITE 7
BOHEMIA • NY • 11716-2618
PH: (631)589-6353 • FX: (631)589-8705
E-MAIL: INFO@PWGROSSER.COM

CONSULTANTS

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING AND RELATED DOCUMENTS IS A VIOLATION OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWINGS PREPARED FOR

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION

PROJECT:	SHD1006	APPROVED BY:	PWG
DESIGNED BY:	BAD	DATE:	12/10/10
DRAWN BY:	LLG	SCALE:	AS SHOWN

SHEET TITLE

1,500 GALLON UST REMOVAL
NYSDEC SPILL 10-09448

BAUMAN BUS
WEST HAMPTON, NY

FIGURE NO
1

SHEET - OF -

Tables

Gabreski Airport
Former Baumann Bus Site
1,500 Gallon UST Removal
December 2010

		Unrestricted SCOs	UST- Bottom	UST - Endpoint
Volatile Organic Compounds (VOCs) STARS				
1,2,4-Trimethylbenzene	ug/Kg	3,600	1.92	<0.38
1,3,5-Trimethylbenzene	ug/Kg	8,400	<0.89	<0.45
Benzene	ug/Kg	60	<1.08	<0.55
Ethylbenzene	ug/Kg	1,000	<1.06	<0.54
Isopropylbenzene	ug/Kg	2,300	<0.89	<0.45
m,p-xylene	ug/Kg	260	<1.83	<0.93
MTBE*	ug/Kg	930	<1.06	<0.54
n-Butylbenzene	ug/Kg	12,000	<0.97	<0.49
n-Propylbenzene	ug/Kg	3,900	<0.93	<0.47
Naphthalene	ug/Kg	12,000	<0.91	<0.46
o-xylene	ug/Kg	260	<0.79	<0.40
p-Isopropyltoluene	ug/Kg	10,000	<0.95	<0.48
sec-Butylbenzene	ug/Kg	11,000	<0.91	<0.46
tert-Butylbenzene	ug/Kg	5,900	<1.08	<0.55
Toluene	ug/Kg	700	<0.97	<0.49
Xylenes(Total)	ug/Kg	260	<1.83	<0.93
Semi-Volatile Organic Compounds (SVOCs) STARS				
Acenaphthene	ug/Kg	20,000	<42.7	<43.4
Acenaphthylene	ug/Kg	100,000	<34.9	<35.5
Anthracene	ug/Kg	100,000	<45.1	<45.9
Benzo(a)anthracene	ug/Kg	1,000	<42.9	<43.7
Benzo(a)pyrene	ug/Kg	1,000	<52.8	<53.8
Benzo(b)fluoranthene	ug/Kg	1,000	<42.1	<42.8
Benzo(g,h,i)perylene	ug/Kg	100,000	<77.5	<78.8
Benzo(k)fluoranthene	ug/Kg	800	<77.2	<78.5
Chrysene	ug/Kg	1,000	<53.7	<54.6
Dibenzo(a,h)anthracene	ug/Kg	330	<56.6	<57.6
Fluoranthene	ug/Kg	100,000	<55.9	<56.9
Fluorene	ug/Kg	30,000	<40.8	<41.5
Indeno(1,2,3-cd)pyrene	ug/Kg	500	<46.9	<47.7
Naphthalene	ug/Kg	12,000	<40.8	<41.5
Phenanthrene	ug/Kg	100,000	1,190	<47.0
Pyrene	ug/Kg	100,000	189	<38.2

Unrestricted Soil Cleanup Objectives (SCOs) from NYSDEC CP-51 Table 3 except where indicated
* No CP-51 SCO given. Part 375 Unrestricted SCO used.

Waste Manifests

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
N Y C E S Q G 9 9 9 9 9	1		003894530 FLE

GENERATOR

5. Generator's Name and Mailing Address
Suffolk County DPW
335 Yaphank Ave.
Yaphank NY 11980
Generator's Phone:

Generator's Site Address (if different than mailing address)
Suffolk County DPW
Gabreski Airport, Building 309
West Hampton Beach NY 11978

6. Transporter 1 Company Name
Fenley & Nicol Environmental, Inc.
U.S. EPA ID Number
N Y D 9 8 0 5 9 2 5 7 0

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

8. Designated Facility Name and Site Address
Fenley & Nicol Environmental, Inc.
445 Brook Avenue
Deer Park NY 11729
Facility's Phone: **631 586-4900**
U.S. EPA ID Number
N Y D 9 8 0 5 9 2 5 7 0

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. **NON-HAZARDOUS PETROLEUM WASTE (TANK BOTTOMS), NOT-DOT, NOT-RCRA REGULATED**	0 0 1	TT	4 1/2	X	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Carl Gallo
Signature: [signature] SCDPW
Month / Day / Year:

INTL

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ashton Alt
Signature: [signature]
Month / Day / Year: 12 / 03 / 10

Transporter 2 Printed/Typed Name:
Signature:
Month / Day / Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month / Day / Year:

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

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: **ROBERT J. FERGUSON**
Signature: [signature]
Month / Day / Year: 12 / 3 / 10

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYES0 99999 | 2. Page 1 of: 1 | 3. Emergency Response Phone: 631-586-4400 | 4. Manifest Tracking Number: 002799060 FLE

GENERATOR

5. Generator's Name and Mailing Address: SCDPW

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

Generator's Phone:

6. Transporter 1 Company Name: FENLEY & NICOL INC | U.S. EPA ID Number: NYD 980592570

7. Transporter 2 Company Name | U.S. EPA ID Number:

8. Designated Facility Name and Site Address: FENLEY & NICOL INC 445 BROOK AVE DEER PARK | U.S. EPA ID Number: NYD 980592570

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON HAZARDOUS HEAT OIL WASTE MIXTURE CLASS III PAH	T T	27	989	G	19 93
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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

Generator's/Offeror's Printed/Typed Name: Kerry Kaczmarek | Signature | Month: 11 | Day: 29 | Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ASHTON ALT | Signature | Month: 11 | Day: 29 | Year: 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

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

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Robert J. Fenley | Signature | Month: 11 | Day: 29 | Year: 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

47913	12/3/2010	midisland FENLEY& NICOL					
		FENLEY & NICOL	BAYSHORE NY 11706			FENLEY & NICOL	
310	LIGHT IRON		1,800.00	9.00		$162.00	162.00

PWGC
Strategic Environmental Engineering Solutions

SCDHS Inspection Form

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL

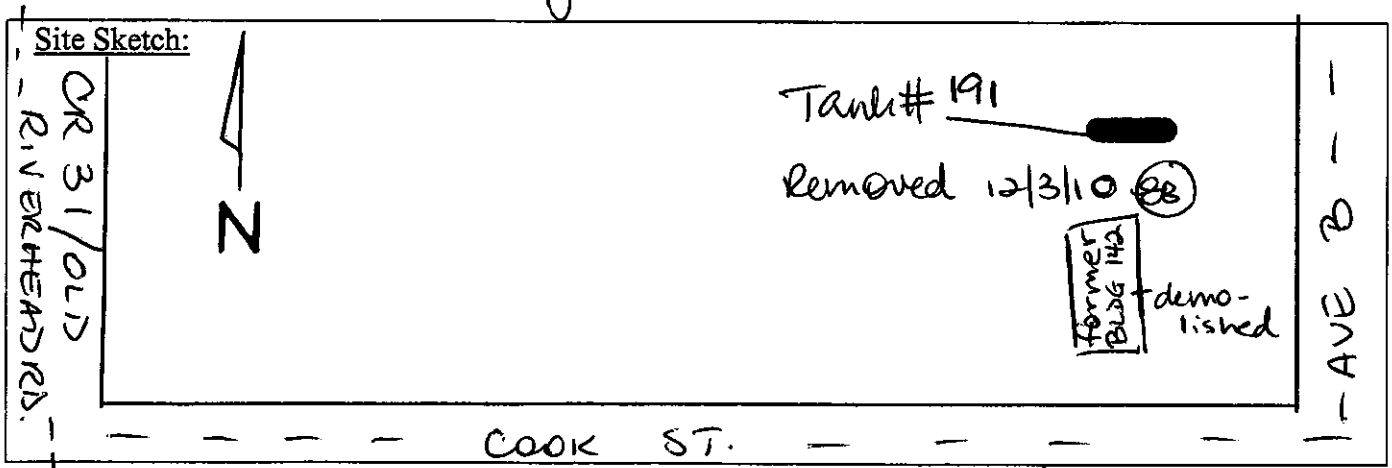
TANK REMOVAL CHECKLIST

FILE REF NO: 13012 REG NO: 9-0016 DATE: 12/3/10
FACILITY NAME: GABRESKI AIRPORT
FACILITY ADDRESS: CR 31, WESTHAMPTON BEACH, NY 11978
SCTM# _____ SITE GPS _____

TANK #	LOCATION	CAPACITY	CONTENTS	MATERIAL
191	UNDERGAT	1,500g	? GAS/DIESEL	SW PLNSTL

1. CONDITION OF TANK AND PIPING: (Note any holes) N1/2" hole noted on S/W, side wall of tank. Otherwise, decent condition.
2. WAS CONTAMINATION NOTED WITHIN EXCAVATION? (Y) / N ~1,000g of water/fuel mix removed from tank
   All Material Removed Under SCDHS Supervision: Y / (N)
   Approximate Amount Of Contaminated Soil Removed: 4.5 cu yds / tons / drums (from inside tank)
   Was Ground Water Impacted: Y / N
   DEC Notified: (Y) / N *(1-800-457-7362)* DEC Spill Number: 10-094448 Heather Bishop - NYSDEC
3. WERE ALL ASSOCIATED PIPES AND VENT LINES REMOVED? (Y) / N (If No, explain) Broken off in excavation area near tank, per Gabe (Albany) Gallo, DPW.
4. NAME OF CONTRACTOR: Fenley + Nicol

Site Sketch:



A Copy of This Document Was Given to: Cheryl Neary (F+N), Brian Devaux (PW Grosser) emailed 12/6/10 BB
(Owner's Representative)

Inspector: E. Bodula Inspector's Signature: BB

OFFICE USE:	
SCDHS Spill Number:	Spills Key:

15 HORSEBLOCK PL., FARMINGVILLE, N.Y. 11738-1220 FAX: (631) 854-2505 · TEL: (631) 854-2501

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICE
TOXIC LIQUID STORAGE REGISTRATION FORM

Fac. Ref. No. OFFICIAL USE ONLY: 1 3 0 1 2 ____

New ✓ Change ___ Add ___

Principal Property Tax Code District 0900 Section 312.00 Block 01 Lot 001.000

Facility Name	No. Street	Community	State	Zip	Phone No.
S.C. GABRESKI AP SEWAGE TREATMENT PLT	CR 31	WESTHAMPTON BEACH	NY	11978	
Tank Owner	**No. Street**	**Community**	**State**	**Zip**	**Phone No.**
SUFFOLK COUNTY	335 YAPHANK AVE.	YAPHANK	NY	11980	

Write mat'l. number in left column. *- Designates cathodic protection

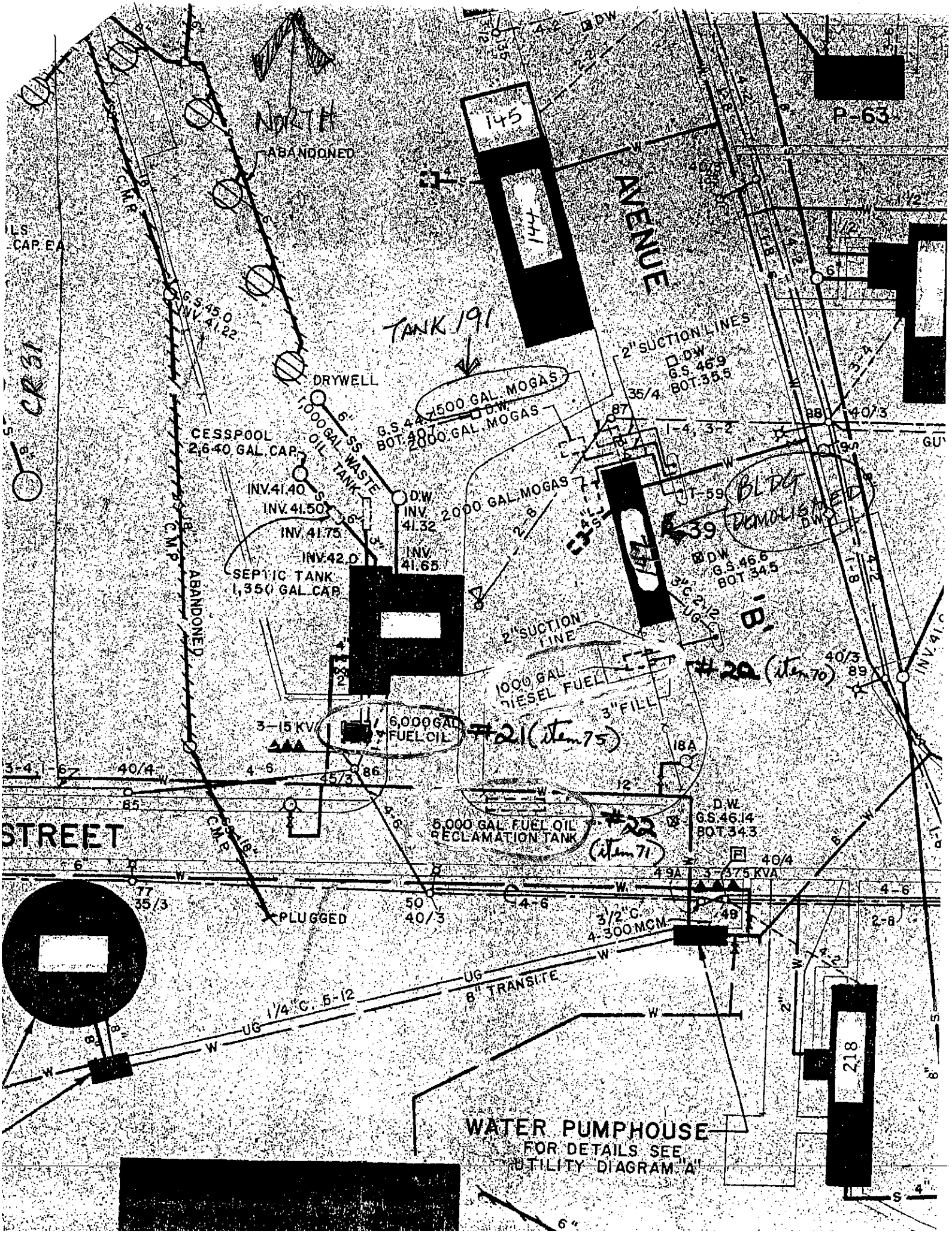
TANK NUMBER	ABOVEGROUND	UNDERGROUND	INDOORS	OUTDOORS	CAPACITY (GALLONS)	1-GASOLINE 2-#2 FUEL OIL 3-#4 FUEL OIL 4-#6 FUEL OIL 5-KEROSENE 6-WASTE OIL 7-DIESEL 8-ORG. SOLVENT 9-IND. WASTES 10-MOTOR OIL 11-TRANS. FLUID 12-ANTIFREEZE 13-CAUSTIC 14-METHANOL 15-DRUM STOR. #	Other Material (Specify)	YEAR INSTALLED	SINGLE WALLED: PLAIN STEEL	FIBERGLAS	BUFFHIDE*	BUFFHIDE	STI-P3	ALPHA	OTHER	DOUBLE WALLED: XXXXXXXXXX	FIBERGLAS	BUFFHIDE*	BUFFHIDE	STI-P3	OTHER	DISPENSER: XXXXXXXXXX	SUBMERSIBLE	SUCTION	GRAVITY	OTHER	XXXXXXXXXX	FILL: PUMPED	GRAVITY	OTHER	XXXXXXXXXX	OFFICIAL USE ONLY
1911		X		X	1,500		UNKNOWN AT THIS TIME	??	X																							

I certify that information on this application and all attachments have been reviewed and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate, and complete. I understand that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Receipt No._____ Amt. of Fee_____

Date	Print Name	Signature	Title
12/2/10	THOMAS SZOMCZYK	Thomas Szomczyk	A.M.E

HMM003 Rev 2/98


NORTH
ABANDONED
145
144
AVENUE
P-63
TANK 191
DRYWELL
1,000 GAL. OIL WASTE
2" SUCTION LINES
D.W.
G.S. 46.9
BOT. 35.5
35/4
87
88
40/3
G.S. 44.7
BOT. 40.7
1500 GAL. MOGAS
2800 GAL. MOGAS
CESSPOOL
2,640 GAL. CAP.
INV. 41.40
INV. 41.50
INV. 41.75
INV. 42.0
SEPTIC TANK
1,350 GAL. CAP.
D.W.
INV. 41.32
INV. 41.65
2000 GAL. MOGAS
T-59
BLDG
#39
DEMOLISHED
D.W.
G.S. 46.6
BOT. 34.5
3" C. 2-1/2 UG
B
2" SUCTION LINE
#20 (item 70)
40/3
89
1000 GAL. DIESEL FUEL
3" FILL
3-15 KV
6,000 GAL. FUEL OIL
#21 (item 75)
18A
40/4
45/3
86
85
12"
D.W.
G.S. 46.14
BOT. 34.3
5,000 GAL. FUEL OIL RECLAMATION TANK
#22 (item 71)
49A
3-375 KVA
49
STREET
77
35/3
50
40/3
PLUGGED
3/2" C. 4-300 MCM
1/4" C. 5-12
8" TRANSITE
218
WATER PUMPHOUSE
FOR DETAILS SEE
"UTILITY DIAGRAM 'A'"
C.M.P.
ABANDONED
G.S. 45.0
INV. 41.22
CAP EA.

PWGC
Strategic Environmental Engineering Solutions

Laboratory Analytical Report

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/14/2010

Laboratory Identifier: 1012047

Received: 12/3/2010 16:22
Sampled by: Nicc Johnson

Client: PW Grosser Consulting Engineers PC

630 Johnson Avenue - Suite 7
Bohemia,
NY 11716-2618

Project: Baumann Bus

Gabreski Airport
West Hampton,
NY

Manager: Bryan Devaux

Respectfully submitted,

Technical Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
PA Cert. #002

The information contained in this report is confidential and intended only for the use of the client listed above. This report shall not be reproduced, except in full, without the written consent of Environmental Testing Laboratories, Inc. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY.

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/14/2010

STARS Volatile Compounds by SW 846 8260

Sample: 1012047-4

Client Sample ID: UST- Bottom
Matrix: Soil
Type: Composite
Remarks: See Case Narrative
Analyzed Date: 12/6/2010

Collected: 12/3/2010 13:30
% Solid: 98.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Result*	Units	Q
95-63-6	1,2,4-Trimethylbenzene	B3182-4513	0.75	**1.92**	ug/Kg	J
108-67-8	1,3,5-Trimethylbenzene	B3182-4513	0.89	ND	ug/Kg	U
71-43-2	Benzene	B3182-4513	1.08	ND	ug/Kg	U
100-41-4	Ethylbenzene	B3182-4513	1.06	ND	ug/Kg	U
98-82-8	Isopropylbenzene	B3182-4513	0.89	ND	ug/Kg	U
108-38-3	m,p-xylene	B3182-4513	1.83	ND	ug/Kg	U
1634-04-4	MTBE	B3182-4513	1.06	ND	ug/Kg	U
104-51-8	n-Butylbenzene	B3182-4513	0.97	ND	ug/Kg	U
103-65-1	n-Propylbenzene	B3182-4513	0.93	ND	ug/Kg	U
91-20-3	Naphthalene	B3182-4513	0.91	ND	ug/Kg	U
95-47-6	o-xylene	B3182-4513	0.79	ND	ug/Kg	U
99-87-6	p-Isopropyltoluene	B3182-4513	0.95	ND	ug/Kg	U
135-98-8	sec-Butylbenzene	B3182-4513	0.91	ND	ug/Kg	U
98-06-6	tert-Butylbenzene	B3182-4513	1.08	ND	ug/Kg	U
108-88-3	Toluene	B3182-4513	0.97	ND	ug/Kg	U
1330-20-7	Xylenes(Total)	B3182-4513	1.83	ND	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B3182-4513	104.0 %	(80 - 127)	
460-00-4	4-BROMOFLUOROBENZENE	B3182-4513	95.6 %	(79 - 128)	
4774-33-8	DIBROMOFLUOROMETHANE	B3182-4513	114.0 %	(78 - 127)	
2037-26-5	TOLUENE-D8	B3182-4513	99.8 %	(87 - 115)	

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12/14/2010

STARS Volatile Compounds by SW 846 8260

Sample: 1012047-5

Client Sample ID: UST-EP
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 12/6/2010

Type: Composite

Collected: 12/3/2010 13:40
% Solid: 96.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Result*	Units	Q
95-63-6	1,2,4-Trimethylbenzene	B3182-4514	0.38	ND	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B3182-4514	0.45	ND	ug/Kg	U
71-43-2	Benzene	B3182-4514	0.55	ND	ug/Kg	U
100-41-4	Ethylbenzene	B3182-4514	0.54	ND	ug/Kg	U
98-82-8	Isopropylbenzene	B3182-4514	0.45	ND	ug/Kg	U
108-38-3	m,p-xylene	B3182-4514	0.93	ND	ug/Kg	U
1634-04-4	MTBE	B3182-4514	0.54	ND	ug/Kg	U
104-51-8	n-Butylbenzene	B3182-4514	0.49	ND	ug/Kg	U
103-65-1	n-Propylbenzene	B3182-4514	0.47	ND	ug/Kg	U
91-20-3	Naphthalene	B3182-4514	0.46	ND	ug/Kg	U
95-47-6	o-xylene	B3182-4514	0.40	ND	ug/Kg	U
99-87-6	p-Isopropyltoluene	B3182-4514	0.48	ND	ug/Kg	U
135-98-8	sec-Butylbenzene	B3182-4514	0.46	ND	ug/Kg	U
98-06-6	tert-Butylbenzene	B3182-4514	0.55	ND	ug/Kg	U
108-88-3	Toluene	B3182-4514	0.49	ND	ug/Kg	U
1330-20-7	Xylenes(Total)	B3182-4514	0.93	ND	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B3182-4514	104.0 %	(80 - 127)	
460-00-4	4-BROMOFLUOROBENZENE	B3182-4514	100.0 %	(79 - 128)	
4774-33-8	DIBROMOFLUOROMETHANE	B3182-4514	109.0 %	(78 - 127)	
2037-26-5	TOLUENE-D8	B3182-4514	101.0 %	(87 - 115)	

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12/14/2010

STARS Semivolatiles by SW846 8270C

Sample: 1012047-4

Client Sample ID: UST- Bottom
Matrix: Soil
Type: Composite
Collected: 12/3/2010 13:30
% Solid: 98.6%
Remarks:
Analyzed Date: 12/8/2010
Preparation Date(s) : 12/7/2010

Analytical Results

Cas No	Analyte	File ID	MDL	Result*	Units	Q
83-32-9	Acenaphthene	C2553-3156	42.7	ND	ug/Kg	U
208-96-8	Acenaphthylene	C2553-3156	34.9	ND	ug/Kg	U
120-12-7	Anthracene	C2553-3156	45.1	ND	ug/Kg	U
56-55-3	Benzo(a)anthracene	C2553-3156	42.9	ND	ug/Kg	U
50-32-8	Benzo(a)pyrene	C2553-3156	52.8	ND	ug/Kg	U
205-99-2	Benzo(b)fluoranthene	C2553-3156	42.1	ND	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C2553-3156	77.5	ND	ug/Kg	U
207-08-9	Benzo(k)fluoranthene	C2553-3156	77.2	ND	ug/Kg	U
218-01-9	Chrysene	C2553-3156	53.7	ND	ug/Kg	U
53-70-3	Dibenzo(a,h)anthracene	C2553-3156	56.6	ND	ug/Kg	U
206-44-0	Fluoranthene	C2553-3156	55.9	ND	ug/Kg	U
86-73-7	Fluorene	C2553-3156	40.8	ND	ug/Kg	U
193-39-5	Indeno(1,2,3-cd)pyrene	C2553-3156	46.9	ND	ug/Kg	U
91-20-3	Naphthalene	C2553-3156	40.8	ND	ug/Kg	U
85-01-8	Phenanthrene	C2553-3156	46.1	**1190**	ug/Kg	
129-00-0	Pyrene	C2553-3156	37.5	**189**	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2553-3156	73.8 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2553-3156	73.1 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2553-3156	96.5 %	(18 - 137)	

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12/14/2010

STARS Semivolatiles by SW846 8270C

Sample: 1012047-5

Client Sample ID: UST-EP
Matrix: Soil
Remarks:
Analyzed Date: 12/8/2010
Preparation Date(s) : 12/7/2010

Type: Composite

Collected: 12/3/2010 13:40
% Solid: 96.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Result*	Units	Q
83-32-9	Acenaphthene	C2553-3157	43.4	ND	ug/Kg	U
208-96-8	Acenaphthylene	C2553-3157	35.5	ND	ug/Kg	U
120-12-7	Anthracene	C2553-3157	45.9	ND	ug/Kg	U
56-55-3	Benzo(a)anthracene	C2553-3157	43.7	ND	ug/Kg	U
50-32-8	Benzo(a)pyrene	C2553-3157	53.8	ND	ug/Kg	U
205-99-2	Benzo(b)fluoranthene	C2553-3157	42.8	ND	ug/Kg	U
191-24-2	Benzo(g,h,i)perylene	C2553-3157	78.8	ND	ug/Kg	U
207-08-9	Benzo(k)fluoranthene	C2553-3157	78.5	ND	ug/Kg	U
218-01-9	Chrysene	C2553-3157	54.6	ND	ug/Kg	U
53-70-3	Dibenzo(a,h)anthracene	C2553-3157	57.6	ND	ug/Kg	U
206-44-0	Fluoranthene	C2553-3157	56.9	ND	ug/Kg	U
86-73-7	Fluorene	C2553-3157	41.5	ND	ug/Kg	U
193-39-5	Indeno(1,2,3-cd)pyrene	C2553-3157	47.7	ND	ug/Kg	U
91-20-3	Naphthalene	C2553-3157	41.5	ND	ug/Kg	U
85-01-8	Phenanthrene	C2553-3157	47.0	ND	ug/Kg	U
129-00-0	Pyrene	C2553-3157	38.2	ND	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2553-3157	109.0 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2553-3157	102.0 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2553-3157	130.0 %	(18 - 137)	

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12/14/2010

Case Narrative

EPA 8260 VOLATILE ANALYSIS:

The following compounds were calibrated at 25, 50, 100,
150 and 200 ppb levels in the initial calibration curve:
- Acetone
- 2-Butanone
- 4-Methyl-2-pentanone
- 2-Hexanone

M&P-Xylenes and 2-Chloroethylvinylether were calibrated at 10, 40, 100, 200 and 300 ppb levels.
Acrolein/Acrylonitrile were calibrated at 50,100,150,200 and 250 ppb levels.
Tert Butyl Alcohol (TBA) was calibrated at 50,200,500,1000 and 1500 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

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ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is not detected above the Method Detection Limit (MDL). All MDL's are lower than the lowest calibration standard concentration.

J - Indicates an estimated value. The concentration reported was between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

AS - Semi-automated Spectrophotometric
AV - Automated Cold Vapor AA
C - Manual Spectrophotometric
P - ICP
T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected