

APPENDIX H

BUILDING 8 UST TANK CLOSURE DOCUMENTATION



April 14, 2005
5555107

Mr. Vadim Brevdo, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
47-40 21st Street
Long Island City, New York 11101-5401

**Re: Building 7 Underground Storage Tank Closure Plan
The Shops at Atlas Park Project
Glendale, New York
NYSDEC BCP Site No. C241045
NYSDEC PBS 2-056103, Spill No. 04-12201**

David T. Gockel, P.E., P.P.
George E. Derrick, P.E.
George P. Kelley, P.E.
Michael A. Semeraro, Jr., P.E.
Nicholas De Rose, P.G.
Andrew J. Ciancia, P.E.
George E. Leventis, P.E.
Rudolph P. Frizzi, P.E.
Ronald A. Fuerst, C.L.A.

Roger A. Archabal, P.E.
Gregory L. Biesiadecki, P.E.
Gerard M. Coscia, P.E.
Colleen Costello, P.G.
Michael E. Cotreau, P.E.
Gregory M. Elko, P.E.
Michael M. Goldstein
Cristina M. González, P.E.
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John D. Plante, P.E.
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Joseph E. Romano, P.L.S.
Leonard D. Savino, P.E.
Steven Ueland, P.E.
Gerald J. Zambrella, C.E.M.

Jorge H. Berkowitz, Ph.D.
Richard Burrow, P.E.
David J. Charette, P.W.S.
Steven Ciambuschini, P.G., L.E.P.
Daniel D. Disario, P.E.
Edward H. Geibert, M.S.
Christopher M. Hager, P.E.
Joel B. Landes, P.E.
Matthew E. Meyer, P.E.
R. S. Murali, M.S.
Richard R. Steiner, P.E.

Dear Vadim:

This letter describes the decommissioning, removal and remediation of the two heating oil underground storage tanks (USTs) located north of Building 29 and south of Building 7 (in the RI Area), as well as our plan for backfill and ultimate close out of the tank area spill file. We previously notified the Department of our intent to remove the tanks in our letter to you dated 7 January 2005. The PBS change-in-status form for the removal was submitted to the PBS office in February, and the tank removal/closure affidavit from the contractor is attached for reference in Attachment A.

The two tanks were removed in February and March, 2005. The tanks are designated UST-1 and UST-2, as shown on the attached figures, and were each 20,000 gallons in capacity. UST-1 was entirely enclosed within a vault with concrete walls and base. UST-2 was found installed in sandy soil backfill atop a concrete slab. Evidence of petroleum releases were apparent around each tank during the removals. A spill was called into the NYSDEC spill hotline as required (Spill No. 04-12201 was assigned, separate from the previous spill number for various petroleum discoveries in the IRM Area).

Based on our findings to date, we are requesting herein an expedited review and concurrence from NYSDEC of our plan to backfill the UST-1 tank vault and UST-2 tank pit. Please note that the UST-2 tank pit sidewalls consist of unsupported soil in the process of slow collapse, which has created unstable and dangerous sidewall conditions. Langan is concerned that these conditions, if left unabated, could lead to undermining of the adjacent structures. We plan to backfill using Category 1 soil excavated from the IRM Area. We understand this is acceptable

under the NYSDEC Part 360 solid waste regulations and request your concurrence. The tank area is located outside of the Track 1 cleanup area (IRM Area).

The remainder of this letter provides the following details:

- Decommissioning, removal and disposal of both tank carcasses.
- UST-1 - Power washing and inspection of the UST-1 vault, removal of a section of the vault floor containing 2 unlined sumps, and excavation of underlying petroleum-impacted soils followed by end-point soil sample collection.
- UST-2 - Vacuuming out petroleum-impacted liquid from the top of the UST-2 slab, and excavation of petroleum-impacted soils along the sidewalls of the tank pit.
- Completion of a soil boring and groundwater monitoring well installation directly downgradient of the tank area.
- Plan to backfill the UST-1 vault and UST-2 tank pit.

Upon completion of the work, a formal spill closure report will be submitted to the NYSDEC Spills Office, with copies provided to your office.

BACKGROUND

UST Status

The two tanks served Atlas Terminals' heating plant, formerly located in Building 7. Each tank originally contained heating oil, documented on the PBS registration as #6 fuel oil. During the Remedial Investigation geophysical survey, the boundaries of the tanks/vaults and piping were located and marked out in the field. The two (2) tanks were found to be laying end-to-end in an east-west orientation. Figures 1 through 3 illustrate the tank locations with respect to the rest of the Atlas Park site, tank vault dimensions, and section drawings showing the vault construction.

The tanks were drained, thoroughly cleaned, and subsequently exhumed by Earth Technologies Incorporated (ETI) under the supervision of Langan Engineering and Environmental Services, P.C. (Langan). The findings of soil and groundwater sampling conducted during the RI in the tank area is summarized below for reference. The remainder of the report consists of a description of the tank removal, remedial activities completed, end point conditions, and planned activities to close out and backfill each tank area.

RI Findings – Soil and Groundwater Around Tank Area

Three (3) soil borings and one (1) groundwater monitoring well were completed previously during the RI in the vicinity of the tank area, including soil borings at B-10 and B-55, and a soil boring and well at B-16 (see attached figures for boring locations):

- **B-16**
There were no indications of petroleum impacts in soil or groundwater during drilling at boring B-16. B-16 is located closest to the tanks, less than 10 feet due south and downgradient of UST-1. There were no TAGM exceedances in either of two soil samples collected at B-16, from 5 to 7 ft bgs, and from 55 to 57 ft bgs from the capillary fringe. The deep soil sample showed low-level detections of SVOCs (typical petroleum constituents) below TAGM levels. However, there were no SVOCs detected in groundwater collected from the monitoring well constructed at this location.
- **B-10**
At B-10 located about 10 feet due south and downgradient of UST-2, petroleum-like odors and PID readings were observed during drilling between a depth of 11 to 23 ft bgs. A soil sample was collected from this interval from 19 to 23 ft bgs. Chrysene exceeded its TAGM value, and low levels of benzene, ethylbenzene, and xylenes were also detected but all below their TAGM values in this sample.
- **B-55**
Soil boring B-55 was located between 25 to 30 feet to the north of the tanks, south of Building 7, the former boiler building. Soil samples collected from 0.5 to 4.5 feet bgs exhibited black staining, low PID response, and exceedances of RSCOs for SVOCs, that could be related to former releases of petroleum from the piping in this area. The deeper soil sample, from 8 to 12 ft bgs, showed no apparent impacts and no detections of petroleum constituents.

UST-1

Tank Removal

UST-1 was entirely enclosed in a six-sided concrete vault with 8- to 12-inch thick concrete walls and a 6- to 8-inch thick concrete cover and base. The supply, return, and vent piping, and wiring were disconnected from the tank, and it was removed from the vault on February 15, 2005. The tank was placed on the ground on plastic sheeting, and chocked to allow inspection. The tank shell was intact; no pitting, holes or other areas of past leakage were observed. There was staining observed on the outer surface of the tank indicating petroleum had been released in the past from the piping or to the ground around the tank's fill port. The bottom of the vault contained five concrete saddles which served as tank supports.

Interior Vault Cleaning and Inspection

Oily sludge and liquid was observed at the base of the vault, which was vacuumed out and disposed off-site by ETI. The interior surfaces of the vault were pressure washed and the rinsate was collected and removed using a vacuum truck. Following vault cleaning, it was evident that the concrete walls surrounding the tank were intact; however, the vault base contained two (2), 2 ft by 2 ft sumps in the southwest and northwest corners (see Figure 2).

Petroleum-impacted materials were hand excavated from each sump as deep as physically possible, to a depth of about 1.5 feet from the top of the slab. The sumps were found to be unlined. There was sandy soil present at the base of each sump exhibiting petroleum odors, low PID readings, and slight sheen but no free product was observed.

Soil Excavation

Based on the inspection findings, the contractor was directed to break through the vault floor around the sumps for further exploration and to excavate additional petroleum-impacted soils present. On March 18, 2005, ETI removed a portion of the concrete floor surrounding each sump, and the underlying soil was excavated to the maximum reach of the excavation equipment, approximately 27 feet below surrounding road grade elevation (12 feet below the bottom of the vault).

End-Point Soil Sample Collection and Analysis

At the end of excavation, one (1) bottom end-point soil sample and four (4) sidewall end-point soil samples were collected from the excavation and tested for the NYSDEC STARS petroleum constituents by Severn Trent Labs. Table 1 presents the results for STARS compounds that exceeded the NYSDEC TAGM 4046 recommended soil cleanup objectives (RSCOs). Attachment C contains the raw laboratory data reports.

Analytical Results

There were no STARS volatile organic compounds (VOCs) present in any soil samples above the TAGM 4046 RSCOs, nor was the total VOCs RSCO exceeded.

Three (3) STARS semivolatile organic compounds (SVOCs) were present in two of the soil samples above the RSCOs, specifically benzo(a)anthracene, benzo(a)pyrene, and chrysene. The RSCOs are set as the lower of the concentrations that are protective of human health through the ingestion pathway, and concentrations that are protective of groundwater quality through leaching and downward migration to the water table. The groundwater protection values are the most applicable to the UST-1 data since following remediation the area will be backfilled and paved, thereby preventing any potential exposure to and ingestion of soils left in place. The end-point results for benzo(a)anthracene and benzo(a)pyrene are well below their respective groundwater protection values. Only the chrysene levels exceed its groundwater protection value.

Plan for Additional Remediation and Closeout

Additional excavation will be completed at UST-1 to remove the supply and return piping, and vent line leading to Building 7 to the north (see Figure 2). Following removal of the piping and excavation of any petroleum-impacted soils, endpoint soil samples will be collected from the piping runs as per DER-10.

The vault will be left in place and the excavation below the vault floor and the vault itself will be backfilled and compacted with Category 1 soils from the IRM Area. The vault is massive and can not be removed without jeopardizing the structural integrity of Buildings 7 and 29 and potentially the Long Island Rail Road (LIRR) Tracks, shown on Figures 1 through 3. Building 29 is located approximately 15 feet to the south, Building 7 is located within approximately 25-30 feet to the north, and the LIRR property and tracks are located 30 feet to the south of UST-1.

UST-2

Tank Removal

UST-2 was installed in a sandy soil matrix atop a concave concrete slab. The supply, return, and vent piping, and wiring were disconnected from the tank, and it was removed on March 14, 2005 by ETI. The tank was placed on the ground on plastic sheeting, and chocked to allow inspection. There were numerous areas of pitting and small corrosion holes noted on the top of the tank. Staining was present on the outer surfaces indicating petroleum had been released in the past from the piping or to the ground around the tank's fill port. Petroleum-impacted soils were removed from above the tank around the piping during removal of the tank.

Remedial Activities and Inspection of Tank Pit

Following tank removal, petroleum-impacted liquids were found and vacuumed from the top of the tank pad and the tank pit was inspected. A band of visibly petroleum-impacted soils was observed along the lower sidewalls of the tank pit, up to 1.5 feet above the top of the tank pad. ETI proceeded to excavate this layer on the north, south and west sides of the pit for off-site disposal and to attempt to delineate its lateral extent. Before the outer edges of the tank pad could be reached, the excavation became unstable. Further excavation had to be discontinued because it was likely, with any further collapse of sidewalls, that Building 29 to the south would be undermined, and the structural integrity of Building 7 and potentially the LIRR tracks could be jeopardized. We could not collect end point soil samples due to the dangerous conditions; however, several samples of the petroleum-impacted materials were collected from the stockpile for waste disposal purposes. These results are included in Attachment D. Limited tests were run, but show no detectable benzene, toluene, xylene or ethylbenzene, and relatively low total petroleum hydrocarbons (DRO). PID screening of the soils from the excavated layer showed low volatiles, similar to the UST-1 area.

Plan for Additional Remediation and Closeout

Additional excavation will be completed at UST-2 to remove the supply and return piping, and vent lines that lead to Building 7. Following removal of the piping and excavation of any petroleum-impacted soils, endpoint soil samples will be collected from the piping runs as per DER-10.

Further excavation of soils containing residuals is not feasible due to proximity and potential danger of collapse of nearby structures, nor is it believed to be warranted as discussed below.

The tank pad will be left in place and the excavation will be backfilled and compacted with Category 1 soils from the IRM Area.

SOIL BORING AND GROUNDWATER MONITORING WELL INSTALLATION

A soil boring with monitoring well installation was completed at the location shown on Figures 1 and 3 to investigate soil and groundwater quality downgradient of the tank area, along the estimated groundwater flow direction. The boring log and well completion diagram are provided in Attachment B. The boring was completed about 10 feet off the southwest corner of the UST-2 tank pit. Continuous split-spoon soil samples were collected from grade surface to 16 feet below grade, at 5-foot intervals thereafter, then again continuously at a depth of 50 feet upon reaching the water table depth (55.5 feet).

The soil cores were visually inspected and screened with a PID for indications of petroleum impacts. There was no evidence of petroleum impacts through the entire drilled depth, including the depth of the tank invert, depth where impacts were observed at nearby RI boring B-10 (19 to 23 ft bgs), and the capillary fringe, with the exception of slight odors noted between a depth of 10 and 16 feet bgs (See Boring/Well Log in Attachment B). As such, a soil sample from within this depth interval was collected for confirmation and is being tested for the STARS VOCs and STARS SVOCs. A second soil sample was collected from the capillary fringe, also for confirmation, as per the RI Work Plan. The data are pending and will be forwarded to NYSDEC upon receipt.

The well will be developed and sampled shortly for the STARS VOCs and SVOCs and these data will be forwarded to NYSDEC upon receipt.

SUMMARY AND CONCLUSIONS

Petroleum-impacted soil lying beneath the source area of the release from UST-1 (the sumps) was excavated to the furthest and deepest extent possible (27 feet bgs) given the limitations imposed by equipment, safety concerns, and potential for damage to existing facilities. Petroleum-impacted soil was also removed to the extent feasible from beneath UST-2, given the same limitations and concerns noted above. A total of approximately 630 tons of petroleum-impacted soils were removed and stockpiled for testing and ultimate off-site disposal. The remedial work, end point sampling, well installation, and waste management and disposal were completed in accordance with the RI and IRM Work Plan.

Based on the data we conclude that there will be no potential risk to either human health or groundwater from the residuals left in the ground for the following reasons:

- Potential impacts to groundwater are negligible because of the great depth to groundwater (over 50 feet).
- Vertical migration through leaching will be negligible because the primary source was removed and the area will be paved to prevent infiltration of precipitation.
- The bottom end point sample from the UST-1 source area (sumps) showed only

chrysene exceeded its TAGM cleanup level.

- No end point samples exceeded the TAGM recommended cleanup objective for total SVOCs (500 ppm).
- The VOCs have the greatest potential for leaching and mobilization to groundwater; however, there were no exceedances of the STARS VOCs in the end point soil samples.
- There were no exceedances of the STARS VOCs or SVOCs in soil or groundwater sampling conducted previously at RI boring B-16, located less than 10 feet south (downgradient) of UST-1.
- There was no evidence of petroleum impacts through the entire drilled depth for a second soil boring and well completed following the tank removals, and located less than 10 feet south (downgradient) of UST-2.
- The residual levels represented by the end point data are relatively low and the particular SVOCs will undergo natural biodegradation and attenuation over time.
- The planned cap (pavement) and implementation of institutional controls will preclude physical exposure to residuals in the ground.

Additionally, because VOCs did not exceed TAGM 4046 and were generally low, vapor infiltration into any of the surrounding structures is not a concern.

Please call if you have any questions. We look forward to your concurrence with the closure plan and backfill plan described herein.

Sincerely,

Langan Engineering and Environmental Services, P.C.

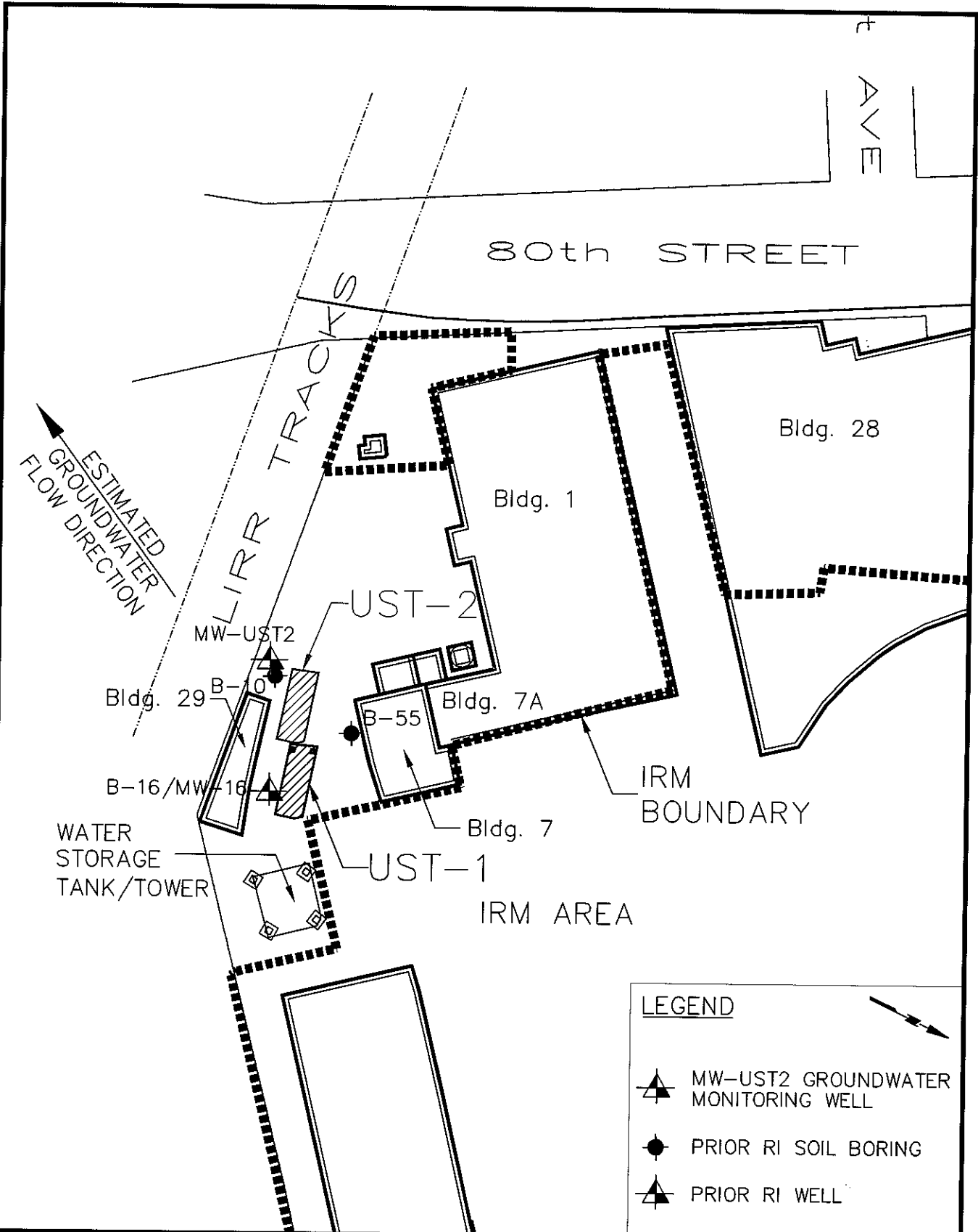


Joel B. Landes, P.E.
Project Manager

cc: Dan Walsh, NYSDEC
Dawn Hettrick, NYS Department of Health
Damon Hemmerdinger, Mark Powers – A & Co.
John Rhyner, Jamie Barr – Langan
Alan Kasden, Lee Houck – Plaza Construction
Linda Shaw – Knauf Shaw LLP

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FIGURES



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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA

NJ Certificate of Authorization No: 24GA27996400

Atlas Park

**SITE PLAN
 BUILDING 7 USTs**

QUEENS

NEW YORK

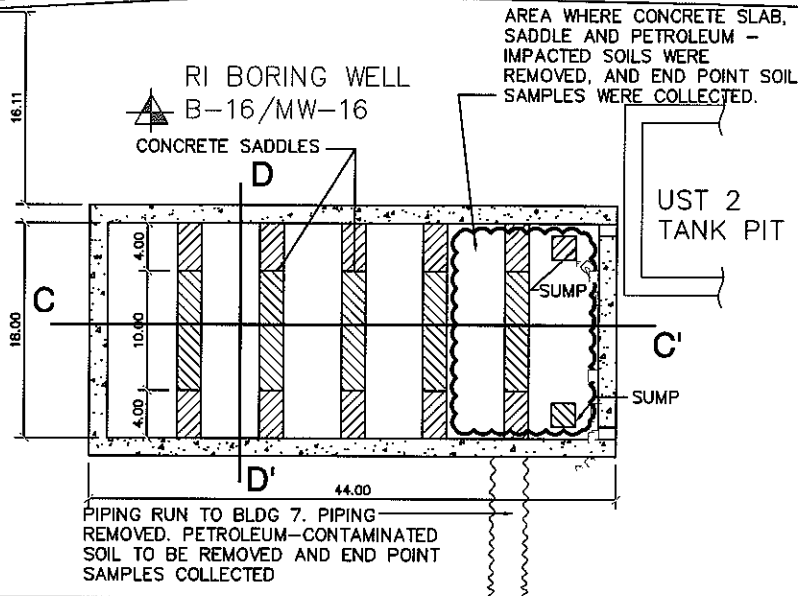
Project No. 5555107	Date 4/12/05	Scale 1" = 80'	Dwg. No. 1
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UST 1

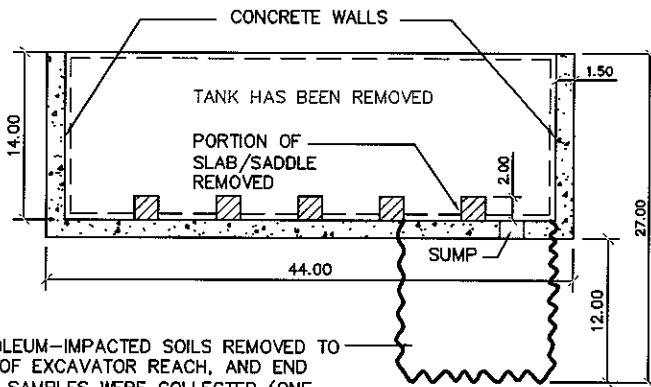
PLAN VIEW

LIRR EASEMENT

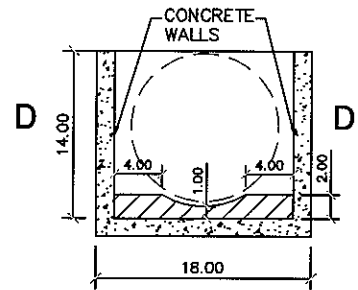
BUILDING 29



SECTION C-C'



SECTION D-D'



NOTES:

1. UST 1 VAULT IS INTACT AND ISOLATED FROM SURROUNDING SOILS, EXCEPT FOR THE 2 UNLINED SUMPS SHOWN.
2. DIMENSIONS ARE APPROXIMATE.
3. SEE DRAWING 1 FOR SITE PLAN SHOWING TANK LOCATIONS IN RELATION TO SITE BUILDINGS.



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Atlas Park

BUILDING 7 UST 1

QUEENS

NEW YORK

Project No.

Date

Scale

Dwg. No.

5555107

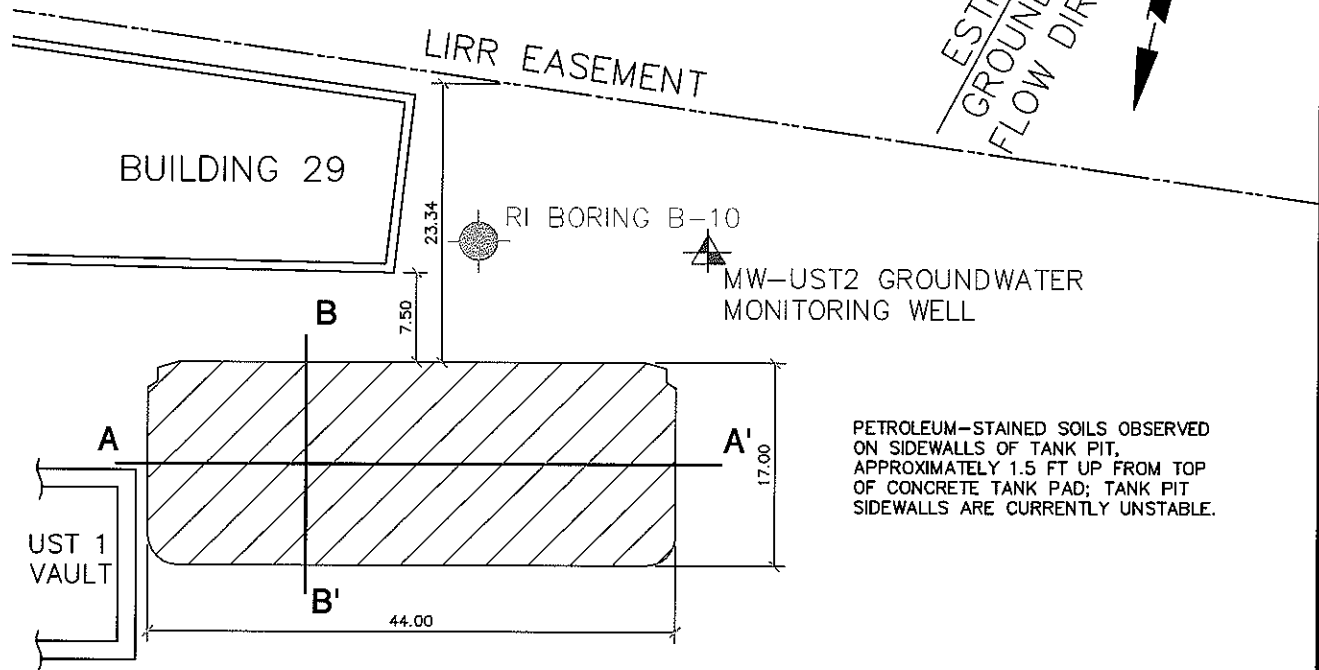
4/05/05

1" = 16'

2

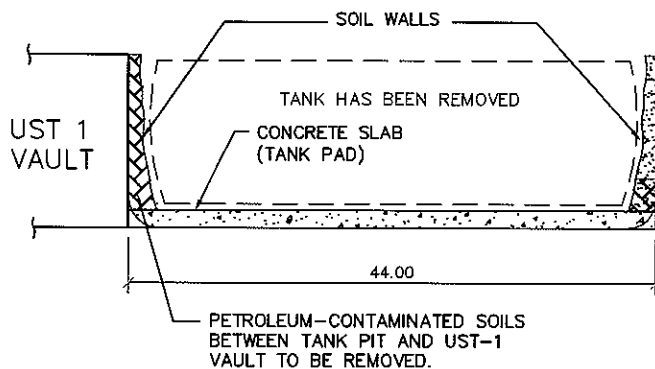
UST 2

PLAN VIEW

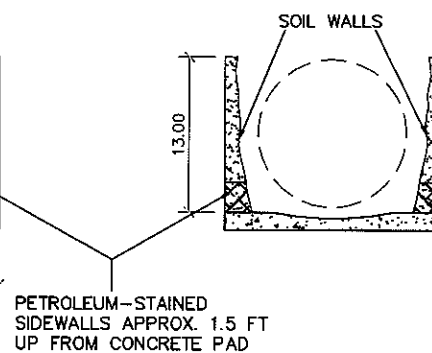


PETROLEUM-STAINED SOILS OBSERVED ON SIDEWALLS OF TANK PIT, APPROXIMATELY 1.5 FT UP FROM TOP OF CONCRETE TANK PAD; TANK PIT SIDEWALLS ARE CURRENTLY UNSTABLE.

SECTION A-A'



SECTION B-B'



NOTES:

1. UST 2 CONCRETE PAD IS INTACT.
2. DIMENSIONS ARE APPROXIMATE.
3. SEE DRAWING 1 FOR SITE PLAN SHOWING TANK LOCATIONS IN RELATION TO SITE BUILDINGS.
4. SEE DRAWING NO 12 OF DRAFT RI REPORT PRESENTING THE MEASURED SITE GROUNDWATER CONTOURS AND INFERRED FLOW DIRECTION.



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Atlas Park

BUILDING 7 UST 2

QUEENS

NEW YORK

Project No. 5555107

Date 4/12/05

Scale 1" = 16'

Dwg. No. 3

TABLES

TABLE 1
Summary of STARS VOCs and SVOCs Exceedances
UST 1 Area
ATLAS PARK

Location ID Sample ID Sample Date Unit	NYSDC/TAGM RECOMMENDED SOIL CLEANUP OBJECTIVE	NYSDC SOIL CLEANUP OBJECTIVES TO PROTECT GROUNDWATER	UST1-BOT UST1-BOT-033105 3/31/2005 ug/Kg	UST1-NSW UST1-NSW-033105 3/31/2005 ug/Kg	UST1-ESW UST1-ESW-033105 3/31/2005 ug/Kg	UST1-MSW UST1-MSW-033105 3/31/2005 ug/Kg	UST1-SSW UST1-SSW-033105 3/31/2005 ug/Kg
VOCs							
NO TAGM EXCEEDANCES		NA	578.6	708.6	-	-	8.5
TOTAL VOCs	10000						
SVOCs							
BENZO(A)ANTHRACENE	224	3000	670 JD ³	2400 JD ⁴	ND	ND	ND
CHRYSENE	400	400	1200 JD ²	3900 D [*]	ND	55 J	ND
BENZO(A)PYRENE	61	11000	570 JD ²	1600 JD ⁴	ND	ND	ND
TOTAL SVOCs	500000	NA	10040	41520	-	357	-
			%	%	%	%	%
Moisture			8.2	8.2	7.7	15	7.1
Total Solids			91.8	91.8	92.3	85	92.9

NOTES:
 NYSDC TAGM Objectives obtained from the New York State Department of Environmental Conservation Technical and Administrative Memorandum # 4046 Document.
 NYSDC exceedances of soil cleanup objectives to protect groundwater are highlighted and in **BOLD**.
 D* = Diluted sample, # indicates the dilution factor > 1.
 NA = Not available.
ORGANICS:
 J = Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
 M = Manually integrated compound.
 ND = Non Detect

ATTACHMENT A

TANK CLOSURE AFFIDAVIT



AL HAAG & SON

PLUMBING & HEATING INC.

LIC. #10701 • LIC. #836
LIC. #948



MEMBER OF GLENDALE
CHAMBER OF COMMERCE

79-89-77th AVENUE

GLENDALE, N.Y. 11385

TEL. (718) 456-1953

April 7, 2005

Fire Department
City of New York
Bureau of Fire Protection

Re: 8000 Cooper Avenue, Glendale, NY 11385

Dear Sir/Madam:

The 20,000 gallon fuel tanks located on the South End of the Atlas Park LLC property at the south of Building 8 and the former Boiler House, have been removed. These (2) tanks are properly identified on NYSDEOPBS Number Z-056103 as Tank Numbers 001 and 002. These tanks were cleaned, pumped and the liquid wastes were properly disposed at the United Oil Recover Facility located at 50 Cross Street, Bridgeport Connecticut. All ancillary piping was properly capped and/or removed. The tanks were cut up and sent to the M&M scrap yard located at 551 New Point Road, Elizabeth, NJ. Currently fuel is no longer stored in bulk storage tanks on these premises.

Yours truly,

ALLAN HAAG, JR.
Vice President



ATTACHMENT B
B-UST2/MW-UST2 –
SOIL BORING LOG AND MONITORING WELL
CONSTRUCTION LOG

Project Atlas Park				Project No. 5555107			
Location Glendale, Queens				Elevation and Datum Approx. 0 BPMD			
Drilling Agency Alpine Environmental				Date Started 4/7/05		Date Finished 4/7/05	
Drilling Equipment Truck Mounted Drill Rig				Completion Depth 65 ft		Rock Depth	
Size and Type of Bit 4.25" HSA				Number of Samples Disturbed 9		Undisturbed NA	Core NA
Casing Diameter (in) NA		Casing Depth (ft) NA		Water Level (ft.) First 55.5		Completion 24 HR.	
Casing Hammer NA		Weight (lbs) NA	Drop (in) NA	Drilling Foreman Steve Butrej			
Sampler 2" OD Split Spoon				Inspecting Engineer Renee Wong			
Sampler Hammer 140 Lb Auto Hammer		Weight (lbs) 140 LB	Drop (in) 30 In.				

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Readings	Casing blows/ft or Cor. Time	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
						Number	Type	Recov. (in)	Penetr. resist. BL/ft		N-Value (Blows/foot)
	0.0	Concrete / Asphalt	0		0						
	-0.5	Dark Brown to Black Coarse Gravelly SAND	0		1	S-1	SS	18	7	13	PID = 0 ppm. No odors. 1.5' Recovery. Continuous Split Spoon down to 16'.
	-2.0	Brown coarse silty SAND	0		2				6		
	-4.0	Brown medium to coarse silty SAND, some mica and plant roots	0		3	S-2	SS	18	4	8	PID = 0 ppm. Moist. No odors. 1.5' Recovery. Slight plastic feel.
	-6.0	Brown medium to coarse silty SAND, 1" of black quartz at 6.5'	0		4				4		
	-8.0	Brown medium silty SAND, some coarse SAND	0		5	S-3	SS	12	1	2	PID = 0 ppm. Moist. No odors. 1' Recovery. Plastic feel.
	-10.0	Brown medium to fine silty SAND	0		6				1	3	
	-11.0	Brown coarse gravelly SAND	0		7	S-4	SS	22	1	5	PID = 0 ppm. Moist. No odors. 1.8' Recovery. Slight plastic feel.
	-12.0	Brown medium to coarse SAND, some mica and quartz	0.1		8				4	6	
	-14.0	Brown coarse SAND, some mica and quartz	0		9	S-5	SS	22	2	13	PID = 0 ppm. Moist. No odors. 1.8' Recovery. Slight plastic feel.
	-16.0				10				6	7	
	-18.0				11	S-6	SS	22	5	13	PID = 0 ppm. Moist. Slight organic odor at top 1", No odors below top 1". 1.8' Recovery. Slight plastic feel. Sample collected from 10' - 12' (Sample ID: B-UST2-10-12-040705)
	-20.0				12				6	8	
	-20.0				13	S-7	SS	22	4	9	PID = 0.1 ppm. Moist. No odors. 1.8' Recovery. Slight plastic feel at top 6".
	-20.0				14				5	8	
	-20.0				15	S-8	SS	22	8	13	PID = 0 ppm. Moist. Slight organic odor at top 1", No odors below top 1". 1.8' Recovery. Split spoon at every 5' below 16'.
	-20.0				16				7	8	

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Project		Atlas Park		Project No.		5555107				
Location		Glendale, Queens		Elevation and Datum		Approx. 0 BPMD				
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Readings Casing blws/ft or Cor. Time	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in		N-Value (Blows/foot)
		Brown coarse SAND, some quartz and mica	0	20				9		PID = 0 ppm. Moist. No odors. 1.5' Recovery.
				21	S-9	SS	18	27	74*	
	-21.5	White to beige powdery to flaky material (Cobble?)		22				47		
	-22.0			22				42		
				23						
				24						
	-25.0	Brown coarse SAND, some rocks and boulders, some quartz and olivine?	0	25				16		PID = 0 ppm. Moist. No odors. 1.5' Recovery.
				26	S-10	SS	18	45	69*	
	-27.0			27				24		
				28						
				29						
	-30.0	Brown coarse SAND, some rocks and boulders, some quartz and mica	0	30				16		PID = 0 ppm. Moist. No odors. 1.5' Recovery.
				31	S-11	SS	18	24	48*	
	-32.0			32				24		
				33				23		
				34						
	-35.0	Brown coarse SAND, some boulders, some black mica schist at bottom 1"	2.2	35				5		PID = 2.2 ppm at mica spot, 0.5 ppm at surrounding sand. Moist. No odors. 8" Recovery.
			0.5	36	S-12	SS	8	12	27*	
	-37.0			37				15		
				38				16		
				39						
	-40.0	Brown coarse SAND, some gravel (lighter brown at bottom 1.5'). Black mica schist at bottom 1"	0	40				5		PID = 0 ppm. Moist. No odors. 1.8' Recovery.
				41	S-13	SS	22	8	21*	
	-42.0			42				13		
				43				16		
				44						
	-45.0			45						

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Project		Project No.									
Atlas Park		5555107									
Location		Elevation and Datum									
Glendale, Queens		Approx. 0 BPMD									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Readings Casing blws/ft or Cor. Time	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist BL/ft		N-Value (Blows/foot)	
	-47.0	Brown coarse SAND, some gravel and quartz	0	45				6		PID = 0 ppm. Moist. No odors.	
					46	S-14	SS	18	8		20
					47				12		
					48				16		
		-50.0	Brown coarse sand, some gravel	0.1	50				5		PID = 0.1 ppm. Moist. No odors. 1.5' Recovery. Continuous split spoon from here down (water table anticipated).
					51	S-15	SS	18	15	38	
		-52.0	Brown coarse SAND, some gravel	0.1	52				23		PID = 0.1 ppm. Moist. No odors. 1.5' Recovery.
					53	S-16	SS	18	25	51	
		-54.0	Brown coarse SAND, some gravel	0	54	Capillary Fringe			18		PID= 0 ppm. Moist. No odors. 1.8' Recovery. Water table at 55.5'. Sample collected at capillary fringe just above water table (Sample ID: B-UST2-54-56-040705). Auger down to 66' to begin monitoring well installation.
					55	SS		22	6	25	
					56				12		
					57				13		
		-56.0			56				16		
					58						
					59						
					60						
				61							
				62							
				63							
				64							
	-65.0			65							
				66							
				67							
				68							
				69							
				70							

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WELL CONSTRUCTION SUMMARY

Well No. MW-UST2

Project Atlas Park	Project No. 5555107
Location Glendale, Queens	Elevation And Datum Approx. 0 BPMD
Drilling Agency Alpine Environmental	Date Started 4/7/2005
Drilling Equipment Truck Mounted Drill Rig	Date Finished 4/7/2005
Size And Type of Bit 4.25" HSA	Driller Steve Butrej
Method of Installation	Inspector Renee Wong

Method of Well Development Not yet completed as of 04/12/05.

Type of Casing PVC	Diameter 2"	Type of Backfill Material Cement/Bentonite/Grout
Type of Screen Slotted Screen	Diameter 2"	Type of Seal Material Bentonite chips
Borehole Diameter		Type of Filter Material Morie #2 sand

Top of Casing	Elevation	Depth	Well Details	Soil Classification	Depth (ft)
Top of Casing		0' ags		See Boring Log	
Top of Seal					
Top of Filter		49.6' bgs			
Top of Screen		50' bgs			
Bottom of Filter		65.00' bgs			
Bottom of Boring	-65.00'	65.00' bgs			
Screen Length		15.00'			
		Slot Size			

GROUNDWATER ELEVATIONS (ft)			Well Details	Soil Classification	Depth (ft)
Elevation	DTW	Date		See Boring Log	
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			

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ATTACHMENT C
UST-1 EXCAVATION –
END POINT SOIL SAMPLE DATA

LABORATORY TEST RESULTS

Job Number: 209184

Date: 04/11/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 5555107-ATLAS AVTN: Jamie Barr

Customer Sample ID: USTM-BOT-033105
 Date Sampled.....: 03/31/2005
 Time Sampled.....: 12:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 209184-5
 Date Received.....: 04/01/2005
 Time Received.....: 19:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% Solids, Solid	91.8		0.10	0.10	1	%	46798		04/05/05 0000	rlm
	% Moisture, Solid	8.2		0.10	0.10	1	%	46798		04/05/05 0000	rlm
8270C	Semivolatile Organics	ND									
	Naphthalene, Solid*		U	240	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Acenaphthene, Solid*	590	J	230	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Fluorene, Solid*	790	J	180	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Phenanthrene, Solid*	2100	J	170	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Anthracene, Solid*	740	J	230	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Fluoranthene, Solid*	500	J	180	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Pyrene, Solid*	2100	J	200	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Benzo(a)anthracene, Solid*	670	J	190	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Chrysene, Solid*	1200	J	180	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Benzo(b)fluoranthene, Solid*		ND	400	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Benzo(k)fluoranthene, Solid*			160	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Benzo(a)pyrene, Solid*	170	J	180	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
	Indeno(1,2,3-cd)pyrene, Solid*	570	J	150	1400	2.00000	ug/kg	46880		04/06/05 2143	chm
Dibenzo(a,h)anthracene, Solid*	200	J	160	1400	2.00000	ug/kg	46880		04/06/05 2143	chm	
Benzo(ghi)perylene, Solid*	410	J	160	1400	2.00000	ug/kg	46880		04/06/05 2143	chm	

* In Description = Dry Wgt.

Job Number: 209184
 LABORATORY TEST RESULTS
 Date: 04/11/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES
 PROJECT: 5555107-ATLAS
 ATTN: Jamie Barr

Customer Sample ID: USM-NSW-033105
 Laboratory Sample ID: 209184-6
 Date Sampled: 03/31/2005
 Date Received: 04/01/2005
 Time Sampled: 12:00
 Time Received: 19:15
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% Solids, Solid	91.8		0.10	0.10	1	%	46798		04/05/05 0000	rlm
	% Moisture, Solid	8.2		0.10	0.10	1	%	46798		04/05/05 0000	rlm
8270C	Semivolatile Organics	ND									
	Naphthalene, Solid*		U	490	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Acenaphthene, Solid*	2500	J	470	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Fluorene, Solid*	3500		370	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Phenanthrene, Solid*	16000		330	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Anthracene, Solid*	3200		470	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Fluoranthene, Solid*	1900	J	360	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Pyrene, Solid*	5300		330	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Benzo(a)anthracene, Solid*	2400	J	380	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Chrysene, Solid*	3900		360	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Benzo(b)fluoranthene, Solid*	400	U	790	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Benzo(k)fluoranthene, Solid*	1600	J	320	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Benzo(a)pyrene, Solid*	300	J	350	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
	Indeno(1,2,3-cd)pyrene, Solid*	300	J	290	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn
Dibenzo(a,h)anthracene, Solid*	520	U	320	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn	
Benzo(ghi)perylene, Solid*		J	320	2800	4.00000	ug/Kg	46880		04/06/05 2213	chrn	

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 209184

Date: 04/11/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 5555107-ATLAS ATTN: Jamie Barr

Customer Sample ID: UST1-ESW-033105 Laboratory Sample ID: 209184-7
 Date Sampled: 03/31/2005 Date Received: 04/01/2005
 Time Sampled: 12:00 Time Received: 19:15
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% Solids, Solid	92.3		0.10	0.10	1	%	46798		04/05/05 0000	FLM
	% Moisture, Solid	7.7		0.10	0.10	1	%	46798		04/05/05 0000	FLM
8270C	Semivolatile Organics	ND	U	61	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Naphthalene, Solid*	ND	U	59	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Acenaphthene, Solid*	ND	U	46	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Fluorene, Solid*	ND	U	42	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Phenanthrene, Solid*	ND	U	59	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Anthracene, Solid*	ND	U	45	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Fluoranthene, Solid*	ND	U	49	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Pyrene, Solid*	ND	U	48	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Benzo(a)anthracene, Solid*	ND	U	45	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Chrysene, Solid*	ND	U	99	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Benzo(b)fluoranthene, Solid*	ND	U	40	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Benzo(k)fluoranthene, Solid*	ND	U	44	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Benzo(a)pyrene, Solid*	ND	U	36	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Indeno(1,2,3-cd)pyrene, Solid*	ND	U	40	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Dibenzo(a,h)anthracene, Solid*	ND	U	40	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn
	Benzo(ghi)perylene, Solid*	ND	U	40	350	1.00000	ug/Kg	46880		04/05/05 1518	chrn

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 209184

Date: 04/11/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 5555107-AITAS

ATTN: Jamie Barr

Laboratory Sample ID: 209184-8
 Date Received: 04/01/2005
 Time Received: 19:15

Customer Sample ID: USM-WSW-033105
 Date Sampled: 03/31/2005
 Time Sampled: 12:00
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% Solids, Solid	85.0		0.10	0.10	1	%	46798		04/05/05 0000	rlm
	% Moisture, Solid	15.0		0.10	0.10	1	%	46798		04/05/05 0000	rlm
8270C	Semivolatile Organics										
	Naphthalene, Solid*	ND	U	66	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Acenaphthene, Solid*	ND	U	64	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Fluorene, Solid*	ND	U	50	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Phenanthrene, Solid*	92	J	45	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Anthracene, Solid*	ND	U	64	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Fluoranthene, Solid*	60	J	49	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Pyrene, Solid*	150	J	53	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Benzo(a)anthracene, Solid*	55	J	52	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Chrysene, Solid*	ND	U	49	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Benzo(b)fluoranthene, Solid*	ND	U	110	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Benzo(k)fluoranthene, Solid*	ND	U	43	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Benzo(a)pyrene, Solid*	ND	U	48	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
	Indeno(1,2,3-cd)pyrene, Solid*	ND	U	39	380	1.00000	ug/kg	46880		04/05/05 1547	dmn
Dibenzo(a,h)anthracene, Solid*	ND	U	43	380	1.00000	ug/kg	46880		04/05/05 1547	dmn	
Benzo(ghi)perylene, Solid*	ND	U	43	380	1.00000	ug/kg	46880		04/05/05 1547	dmn	

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 209184

Date: 04/11/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 5555107-ATLAS

ATTN: Jamie Barr

Customer Sample ID: USTI-SSW-033105
 Laboratory Sample ID: 209184-9
 Date Sampled: 03/31/2005 Date Received: 04/01/2005
 Time Sampled: 12:00 Time Received: 19:15
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH ID	DATE/TIME	TECH
ASIM D-2216	% Solids, Solid	92.9		0.10	0.10	1	%	46798	04/05/05 0000	rlm
	% Moisture, Solid	7.1		0.10	0.10	1	%	46798	04/05/05 0000	rlm
8270C	Semivolatiles Organics	ND	U	59	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Naphthalene, Solid*	ND	U	57	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Acenaphthene, Solid*	ND	U	44	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Fluorene, Solid*	ND	U	40	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Phenanthrene, Solid*	ND	U	57	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Anthracene, Solid*	ND	U	43	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Fluoranthene, Solid*	ND	U	47	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Pyrene, Solid*	ND	U	46	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Benzo(a)anthracene, Solid*	ND	U	43	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Chrysene, Solid*	ND	U	56	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Benzo(b)fluoranthene, Solid*	ND	U	38	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Benzo(k)fluoranthene, Solid*	ND	U	42	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Benzo(a)pyrene, Solid*	ND	U	35	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Indeno(1,2,3-cd)pyrene, Solid*	ND	U	38	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Dibenzo(a,h)anthracene, Solid*	ND	U	38	340	1.00000	ug/kg	46880	04/05/05 1646	chm
	Benzo(ghi)perylene, Solid*	ND	U	38	340	1.00000	ug/kg	46880	04/05/05 1646	chm

* In Description = Dry Wgt.

Date: 04/08/2005
Time: 14:11:33

STL Connecticut (Langan Projects)
Langan - Atlas
METHOD 8021 - STARS VOLATILE ORGANICS

Rept: AN0326

Client ID	Lab ID	Units	UST1-BOT-033105 A05-3115 03/31/2005	A5311501	UST1-ESW-033105 A05-3115 03/31/2005	A5311503	UST1-NSW-033105 A05-3115 03/31/2005	A5311502	UST1-SSW-033105 A05-3115 03/31/2005	A5311505
Job No	Sample Date		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte										
Benzene		UG/KG	ND	1.0	ND	1.0	ND	10	ND	1.0
Ethylbenzene		UG/KG	30	1.0	ND	1.0	ND	10	ND	1.0
Toluene		UG/KG	2.6	1.0	ND	1.0	110	10	ND	1.0
o-Xylene		UG/KG	30	1.0	ND	1.0	ND	10	ND	1.0
m/p-Xylenes		UG/KG	2.6	2.0	ND	2.0	ND	20	ND	2.0
Total Xylenes		UG/KG	33	3.0	ND	3.0	1200	30	ND	3.0
Isopropylbenzene		UG/KG	ND	1.0	ND	1.0	510	10	ND	1.0
n-Propylbenzene		UG/KG	40	1.0	ND	1.0	2500	10	ND	1.0
p-Cymene		UG/KG	ND	1.0	ND	1.0	280	10	ND	1.0
1,2,4-Trimethylbenzene		UG/KG	51	1.0	ND	1.0	1200	10	ND	1.0
1,3,5-Trimethylbenzene		UG/KG	11	1.0	ND	1.0	320	10	ND	1.0
n-Butylbenzene		UG/KG	49	1.1	ND	1.1	1600	11	ND	1.0
sec-Butylbenzene		UG/KG	32	1.0	ND	1.0	1400	10	ND	1.0
tert-Butylbenzene		UG/KG	ND	1.0	ND	1.0	ND	10	ND	1.0
Methyl-t-Butyl Ether (MTBE)		UG/KG	ND	1.0	ND	1.0	ND	10	ND	1.0
Naphthalene		UG/KG	330	5.0	ND	5.0	2600	50	ND	5.0
SURROGATE(S)										
p-Bromofluorobenzene		%	114	66-134	106	66-134	112	66-134	107	66-134
a,a,a-Trifluorotoluene		%	92	76-127	86	76-127	95	76-127	89	76-127

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 04/08/2005
Time: 14:11:53

STL Connecticut (Langan Projects)
Langan - Atlas
METHOD 8021 - STARS VOLATILE ORGANICS

Rept: AN0326

Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
UST1-WSW-033105 A05-3115 03/31/2005	A5311504							
Analyte								
Benzene		UG/KG	ND	1.0	NA		NA	
Ethylbenzene		UG/KG	2.4	1.0	NA		NA	
Toluene		UG/KG	ND	1.0	NA		NA	
o-Xylene		UG/KG	ND	1.0	NA		NA	
m/p-Xylenes		UG/KG	ND	2.0	NA		NA	
Total Xylenes		UG/KG	ND	3.0	NA		NA	
Isopropylbenzene		UG/KG	ND	1.0	NA		NA	
n-Propylbenzene		UG/KG	ND	1.0	NA		NA	
p-Cymene		UG/KG	ND	1.0	NA		NA	
1,2,4-Trimethylbenzene		UG/KG	4.1	1.0	NA		NA	
1,3,5-Trimethylbenzene		UG/KG	ND	1.0	NA		NA	
n-Butylbenzene		UG/KG	ND	1.1	NA		NA	
sec-Butylbenzene		UG/KG	2.0	1.0	NA		NA	
tert-Butylbenzene		UG/KG	ND	1.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)		UG/KG	ND	1.0	NA		NA	
Naphthalene		UG/KG	ND	5.0	NA		NA	
SURROGATE(S)								
p-Bromofluorobenzene		%	98	66-134	NA		NA	
a,a,a-Trifluorotoluene		%	86	76-127	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

ATTACHMENT D
UST-2 EXCAVATION -
WASTE CHARACTERIZATION SAMPLE DATA

LABORATORY TEST RESULTS

Job Number: 209079

Date: 03/29/2005

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES

PROJECT: 5555107-NTAS

ATTN: Jamie Barr

Customer Sample ID: SP-2K-032105(4)
 Date Sampled: 03/21/2005
 Time Sampled: 10:45
 Sample Matrix: Soil

Laboratory Sample ID: 209079-8
 Date Received: 03/21/2005
 Time Received: 15:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% Solids, Solid	96.2		0.10	0.10	1	%	46332		03/23/05 0000	rlm
	% Moisture, Solid	3.8		0.10	0.10	1	%	46332		03/23/05 0000	rlm
8082	PCB Analysis	ND	U	5.7	35	2.00000	ug/kg	46438		03/24/05 2249	kam
	Aroclor 1016, Solid*	ND	U	3.1	68	2.00000	ug/kg	46438		03/24/05 2249	kam
	Aroclor 1221, Solid*	ND	U	3.8	35	2.00000	ug/kg	46438		03/24/05 2249	kam
	Aroclor 1232, Solid*	ND	U	6.1	35	2.00000	ug/kg	46438		03/24/05 2249	kam
	Aroclor 1242, Solid*	150	M	5.5	35	2.00000	ug/kg	46438		03/24/05 2249	kam
	Aroclor 1248, Solid*	170		2.5	35	2.00000	ug/kg	46440		03/24/05 2249	kam
	Aroclor 1254, Solid*	ND	U	8.2	35	2.00000	ug/kg	46438		03/24/05 2249	kam
1030	Ignitability (solids) Ignitability, Solid*	Neg				1	Pos/Neg	46247		03/22/05 1250	dkg
9014M	Reactivity, Cyanide	ND	U		500	1.0	ug/kg	46437		03/24/05 1303	dtn
9034M	Reactivity, Cyanide, Solid	ND	U	12	20	1	mg/kg	46439		03/24/05 1326	dtn
9045C	Reactivity, Sulfide	no				1	* yes/no	46467		03/25/05 1418	dtn
	Reactivity, Sulfide, Solid										
7471A	pH (Soil) Corrosivity (pH Solid), Solid	0.041	B	0.014	0.048	1.0000	mg/kg	46455		03/25/05 1147	dwh
6010B	Mercury (CVAA) Solids Mercury, Solid*	2580		21.1	273	1	mg/kg	46456		03/25/05 1029	dwh
	Metals Analysis (ICAP Trace) Aluminum, Solid*										

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 03/29/2005

Job Number: 209079

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 5555107-ATLAS ATTN: Jamie Barr

Customer Sample ID: SP-2K-032105(4)
 Date Sampled.....: 03/21/2005
 Time Sampled.....: 10:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 209079-8
 Date Received.....: 03/21/2005
 Time Received.....: 15:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Antimony, Solid*	ND	U	1.2	12.4	1	mg/Kg	46456		03/25/05 1029	dwh
	Arsenic, Solid*	1.4	N	1.3	8.5	1	mg/Kg	46456		03/25/05 1029	dwh
	Barium, Solid*	31.2	B	0.19	2.1	1	mg/Kg	46456		03/25/05 1029	dwh
	Beryllium, Solid*	ND	U	0.53	2.1	1	mg/Kg	46456		03/25/05 1029	dwh
	Cadmium, Solid*	ND	U	1.1	3.2	1	mg/Kg	46456		03/25/05 1029	dwh
	Calcium, Solid*	2640		12.3	89.8	1	mg/Kg	46456		03/25/05 1029	dwh
	Chromium, Solid*	8.4	*	0.36	3.2	1	mg/Kg	46456		03/25/05 1029	dwh
	Cobalt, Solid*	3.4		0.44	2.1	1	mg/Kg	46456		03/25/05 1029	dwh
	Copper, Solid*	22.1		0.85	5.3	1	mg/Kg	46456		03/25/05 1029	dwh
	Iron, Solid*	8920		10.8	153	1	mg/Kg	46456		03/25/05 1029	dwh
	Lead, Solid*	43.3		0.80	9.5	1	mg/Kg	46456		03/25/05 1029	dwh
	Magnesium, Solid*	1100		9.7	37.0	1	mg/Kg	46456		03/25/05 1029	dwh
	Manganese, Solid*	179		0.68	2.6	1	mg/Kg	46456		03/25/05 1029	dwh
	Nickel, Solid*	9.3		0.46	5.3	1	mg/Kg	46456		03/25/05 1029	dwh
	Potassium, Solid*	285		42.3	211	1	mg/Kg	46456		03/25/05 1029	dwh
	Selenium, Solid*	ND	U	1.7	16.9	1	mg/Kg	46456		03/25/05 1029	dwh
	Silver, Solid*	ND	U	0.34	3.2	1	mg/Kg	46456		03/25/05 1029	dwh
6010B	Sodium, Solid*	74.4	B	21.1	99.3	1	mg/Kg	46456		03/25/05 1029	dwh
	Thallium, Solid*	18.1	U	2.1	2.1	1	mg/Kg	46456		03/25/05 1029	dwh
	Vanadium, Solid*	47.1	U	0.38	4.2	1	mg/Kg	46456		03/25/05 1029	dwh
	Zinc, Solid*	ND	N	4.0	21.1	1	mg/Kg	46456		03/25/05 1029	dwh
8260B	Volatile Organics	ND	U	1.5	5.2	1.00000	ug/Kg	46374		03/23/05 1128	lhd
	Benzene, Solid*	ND	U	1.8	5.2	1.00000	ug/Kg	46374		03/23/05 1128	lhd
	Toluene, Solid*	ND	U	1.9	5.2	1.00000	ug/Kg	46374		03/23/05 1128	lhd
	Ethylbenzene, Solid*	ND	U	4.7	5.2	1.00000	ug/Kg	46374		03/23/05 1128	lhd
	Xylenes (total), Solid*	ND	U								
6010B	Metals Analysis (ICAP Trace)										
	Arsenic, TCLP	ND	U	0.0195	0.200	1	mg/L	46458		03/25/05 1211	dwh

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Date: 03/23/2005

Job Number: 209079

CUSTOMER: LANGAN ENVIRONMENTAL SERVICES PROJECT: 555107-ATLAS ATTN: Jamie Barr

Laboratory Sample ID: 209079-8
 Date Received: 03/21/2005
 Time Received: 15:20

Customer Sample ID: SP-2K-032105(4)
 Date Sampled: 03/21/2005
 Time Sampled: 10:45
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7470A	Barium, TCLP	0.440	U	0.0037	0.0250	1	mg/L	46458		03/25/05 1211	cwh
	Cadmium, TCLP	ND	U	0.0055	0.0500	1	mg/L	46458		03/25/05 1211	cwh
	Chromium, TCLP	ND	U	0.0065	0.0500	1	mg/L	46458		03/25/05 1211	cwh
	Lead, TCLP	0.0541	U	0.0150	0.0500	1	mg/L	46458		03/25/05 1211	cwh
	Selenium, TCLP	ND	U	0.0250	0.150	1	mg/L	46458		03/25/05 1211	cwh
	Silver, TCLP	ND	U	0.0055	0.0300	1	mg/L	46458		03/25/05 1211	cwh
	Leachable, Mercury (CVAA)	ND	U	0.00035	0.0100	1.0000	mg/L	46453		03/25/05 1111	cwh
	Mercury, TCLP										

* In Description = Dry Wgt.

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	New York TAGM Rec. Soil Cleanup Objective Criteria (ug/kg)	SP-2K-032105-1 617484 03/21/05 SOLID 50.0 mg/Kg	SP-2K-032105-2 617485 03/21/05 SOLID 50.0 mg/Kg	SP-2K-032105-3 617486 03/21/05 SOLID 50.0 mg/Kg
SEMIVOLATILE COMPOUNDS (GC)		6720	10600	11600
TotalDRO	NA			

Qualifiers

- U - The compound was not detected at the indicated concentration.
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- NR - Not analyzed.

Checked By: _____
 OK
 Make Corrections

