Subsurface Investigation of

AA Truck Renting Corp. 29-90 Review Avenue Long Island City, New York

May 1990

Prepared for:

Eric Roberts 28-90 Review Avenue Long Island City, New York

Prepared by:

Tyree Brothers Environmental Services, Inc. 208 Route 109 Farmingdale, New York 11735 (516) 249-3150

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Background

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Per the request of Mr. Eric Roberts of AA Truck Renting Corp., Tyree Brothers Environmental Services (TBES) performed a subsurface investigation at the subject location. The assessment was conducted to investigate subsurface impacts associated with previously existing aboveground, and presently existing underground petroleum storage tanks located at the site.

The five (5) acre parcel was previously the site of a Texaco building and terminal. It was owned by Texaco from 1918 to 1972, but only operated as a terminal until 1967. All above-ground petroleum storage tanks were removed in 1972 subsequent to the transfer of the property to AA Truck Renting Corp.

Three (3) 4,000 gallon steel underground petroleum storage tanks are located on the site in the area of the former terminal loading rack. The tanks are currently utilized for the storage of diesel fuel. According to the owner, these tanks were previously used for the storage of gasoline. Approximately five (5) years ago, the storage of gasoline was discontinued.

TBES installed four (4) soil borings at potential contamination source areas on the site: three borings were drilled in the area of the old terminal's aboveground storage tanks; the other boring was drilled in the vicinity of the existing underground storage tanks. Soil borings were drilled to the depth of the water table and split spoon samples were then taken. The split spoon samples represent soil from a depth just below the water table. Sediment samples obtained during drilling were brought to a New York State certified laboratory and analyzed for the presence of volatile organics and petroleum products.

Field Investigation and Findings

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On May 2, 1990, Tyree Brothers Environmental Services, Inc. drilled four (4) soil borings at the subject site (see Site Map for boring locations). Borings 1, 2, and 3 were drilled to the water table which ranged from five (5) to seven (7) feet and split spoon samples were then taken. Boring 4 was terminated at a depth of four (4) feet after several unsuccessful attempts were made to surpass this depth. Additional attempts were made to drill a fifth boring but, due to the presence of cement and debris, the drilling of a fifth boring was aborted.

Soil conditions encountered during drilling included fine silty sand and clay with debris (refer to the boring logs in the Appendix). Petroleum odors were noted in the drilling soils from borings 1 and 2. Groundwater was encountered in borings 1, 2, and 3 at depths between five (5) and seven (7) feet.

Split-spoon samples were taken just below the water table in borings 1, 2, and 3. A grab sample was taken off the auger flytes in boring 4. Soil samples were then placed in appropriate sampling containers for further field and laboratory analysis. Sediment samples obtained during drilling were screened with an HNU photoionization meter using headspace analysis. This meter measures the concentrations of organic vapors in air as they evolve from the sediment samples. The numerical readouts are not exact determinations of true volatile content of the samples, but instead provide qualitative indications of the degree of volatile organic contamination.

The highest meter reading observed was 170 ppm at the seven (7) foot depth in boring 2. The sample with the highest meter reading from each borehole was brought to a state certified laboratory for analysis of volatile organics. Meter readings for individual soil samples are provided with the boring logs.

Soil samples obtained during drilling were analyzed for Total Aromatic Hydrocarbons by EPA method 602, Volatile Halocarbons by EPA method 601, and Total Recoverable Petroleum Hydrocarbons by EPA method 418.1.

The analysis by EPA method 602 detected the highest concentration of aromatic hydrocarbons in the sample from B-1 at a concentration of 70,530 ppb. The lowest concentration found was 414 ppb in B-2. Concentrations detected in B-3 and B-4 were 708 ppb and 823 ppb, respectively.

The analysis by EPA method 601 found all concentrations of volatile halocarbons in B-1, B-3 and B-4 to be less than 5 ppb or non-detectable. B-2 contained 17 ppb chloroform and 146 ppb methylene chloride; all other constituents were less than 5 ppb or non-detectable.

The results of the analysis for Total Recoverable Petroleum Hydrocarbons by EPA method 418.1 revealed concentrations of 56,432 ppm, 624.3 ppm, 176.7 ppm and 626.9 ppm in soil samples from B-1 through B-4, respectively. The laboratory results for all of the soil samples are summarized in Table 1 included in the Appendix. The analytical reports from Environmental Testing Laboratories are also included in the Appendix.

On May 9, 1990, the drilling division of TBES returned to the subject site and installed monitoring wells in the areas of B-1 and B-2. An attempt was made to install a third well in the area of B-3; however, construction debris prevented drilling beyond the surface of the water table.

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A well technician visited the site on May 12, 1990, and monitored the two wells. Well 1 was found to contain 2-7/8" of floating product and one-half gallon of product was bailed from the well. Well 2 did not contain any floating product.

On May 17, 1990, a well technician again visited the site to monitor the wells. Well 1 was found to contain 2-1/2" of floating product. No floating product was observed in well 2. A sample of floating product from well 1 was brought to Environmental Testing Laboratories and analyzed for petroleum product identification. The result of the analysis identified the floating product as being number #2 fuel oil/diesel fuel. The laboratory report is are included in the Appendix.

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Conclusions and Recommendations

Analysis of the soil samples revealed very high concentrations of aromatic hydrocarbons and recoverable petroleum hydrocarbons in the soil from boring B-1. In addition, floating product is present in the well that was installed in this boring. Analysis of the floating product identified it to be #2 fuel oil/diesel fuel. The boring/well location is located immediately adjacent to the underground diesel storage tanks and appears to indicate a release in that vicinity.

It is recommended that a system tightness test be immediately performed on all underground storage tanks at the site. In addition, separate line tests should also be performed on all transfer lines. This is necessary to determine if any part of the system is presently leaking.

In addition, it is recommended that the site be continuously monitored and bailed on a weekly basis to remove any floating product appearing in the wells.

Additional monitoring wells will also be necessary to define the extent of the floating product plume.

DISCLAIMER

This site assessment and report was prepared for the use of Mr. Eric Roberts. The conclusions provided by Tyree Bros. Environmental Services (TBES) in this assessment are based solely on the information reported in this document. Future investigative site information which was not available to TBES at the time of this assessment may result in a modification of the conclusions. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur. This report has been prepared in accordance with generally accepted hydrogeologic practices. No other warranty, expressed or implied, is made.

APPENDIX

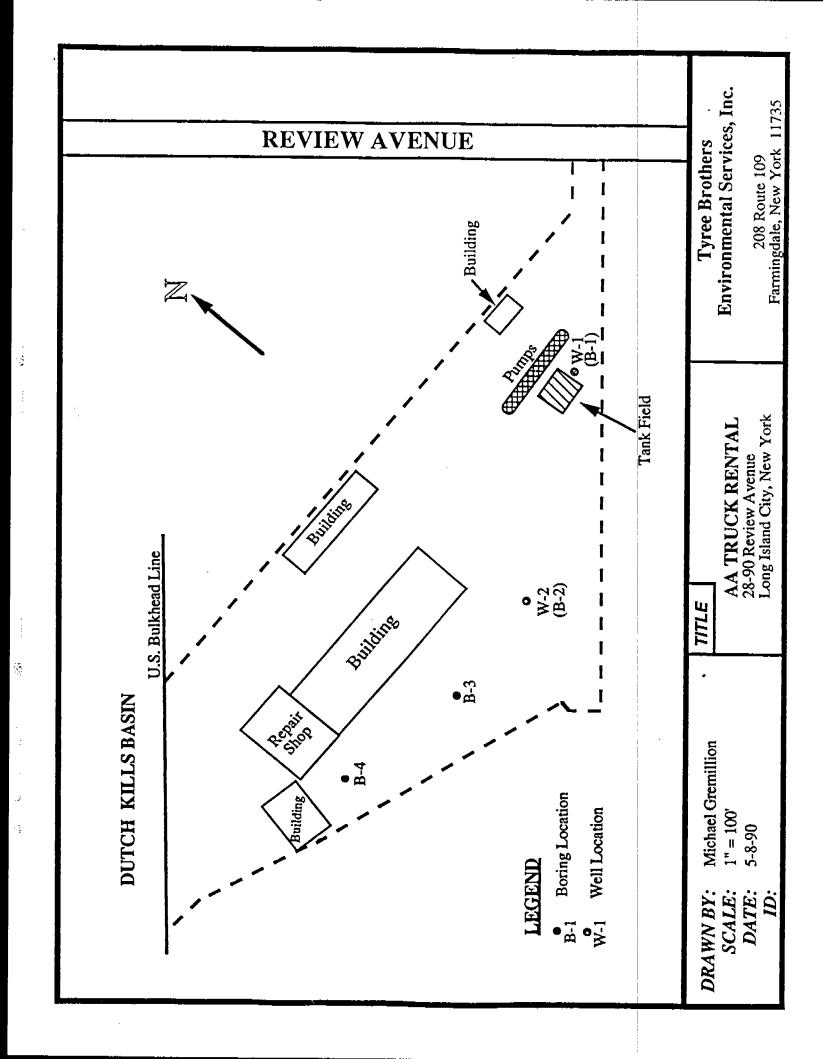


TABLE: SUMMARY OF LABORATORY RESULTS

SOIL SAMPLES

	· · · · · ·	тот	AL ARON	ATIC HY	DROCA	RBONS (E	PA METHOD 602)
BORING NO.	SAMP- LING DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL/ CHLORO BENZENE (ppb)	O,M,P- XYLENES (ppb)	DICHLORO- BENZENES (ppb)	TOTAL AROMATIC HYDROCARBONS
B-1	5/2/90	859	6371	10372	52928	ND	70530ppb
B-2	5/2/90	ND	207	112	95	ND	414 ppb
B-3	5/2/90	ND	342	78	288	ND	708 ppb
B-4	5/2/90	ND	309	75	439	ND	823 ppb

тот	ARBONS 5/2/90		
B-1	B-2	B-3	B-4
56432 ppm	624.3 ppm	176.7 ppm	626.9 ppm

Boring_	vo	LATILE HALOCARBONS	(EPA METHOI	O 601)
INT _a I	Chloroform	1,2-Dichloroethane	Methylene Chloride	All Other Volatile Halocarbons
B-1	<5 ppb	<5 ppb	<5 ppb	ND
B-2	17ppb	<5 ppb	146 ppb	ND
B-3	<5 ppb	<5 ppb	ND	ND
B-4	ND	ND	ND	ND

ND = Non-detectable



SUMMARY OF LAB RESULTS

TITLE:

AA Truck Rental 28-90 Review Avenue Long IslandCity, New York

Drawn By: Michael Gremillion
Date: 5/22/90

I.D.:

208 Route 109, Farmingdale, NY 11735 • Fax: 516-249-3281 • Phone: 516-249-1456

ANALYSIS REPORT - EPA 602 · SW-846 8020

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05/21/90

Review by:

Client

... 38 AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

Dates

Collected: 05/02/90

Received: 05/02/90

Analyzed: 05/03/90

Sample ID	Location	Analyte	() MDL	Concentration
A505901	B - 1 @ 7'- 9'	Benzene	0,2	859 ppb
Sample phase	: Split Spoon	Toluene	0.2	6371 ppb
Remarks:		Ethy!/Chlorobenzene	0.2	10372 ppb
		o,m,p-Xylenes	0.2	52928 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		70530 ppb
A505902		Benzene	0.2	ND ppb
	: Split Spoon	Toluene	0.2	207 ppb
Remarks:		Ethyl/Chlorobenzene	0.2	112 ppb
		o,m,p-Xylenes	0.2	95 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		414 ppb
A505903		Вепгене	0.2	ND ppb
	: Split Spoon	Toluene	0.2	342 ppb *
Remarks:		Ethyl/Chlorobenzene	0.2	78 ppb
		o,m,p-Xylenes	0.2	288 ppb
		Dichlorobenzenes	0.2	ND ppb
		EPA 602 • SW-846 8020		708 ppb



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AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

Dates

Collected: 05/02/90 Received: 05/02/90

Analyzed: 05/03/90

Sample ID Location	Analyte	() MDL	Concentration
A505904 B - 4 @ 4'	Benzene	0.2	
Sample phase: Split Spoon		0.2	ND ppb
· · · ·	Toluene	0.2	309 ppb
Remarks:	Ethyl/Chlorobenzene	0.2	75 ppb
•	o,m,p-Xylenes	0.2	439 ppb
	Dichlorobenzenes	0.2	ND ppb
	EPA 602 • SW-846 8020		823 ppb

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg ND= Not Detected B=cmpd in blank; NA = Not Analyzed; MDL varies by dilution



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05/21/90

Review by

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AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

<u>Dates</u>

Collected: 05/02/90

Received: 05/02/90

Analyzed: 05/03/90

Sample ID L	ocation	Analyte	() MDL	Concentration
	- 1 @ 7'- 9'	Bromodichloromethane	0.1) T
Sample phase: ;	Split Spoon	Bromoform	0.1	ND ppb
Remarks:		Bromomethane		ND ppb
		Carbon Tetrachloride	1.18	ND ppb
		Chlorobenzene	0.12	ND ppb
		Chloroethane	0.25	ND ppb
		2-Chloroethylvinyl ether	0.52	ND ppb
		Chloroform	0.13	ND ppb
		Chloromethane	0.05	<5 ppb
		Dibromochloromethane	80.0	ND ppb
		1,2-Dichlorobenzene	0.09	ND ppb
		1,3-Dichlorobenzene	0.15	ND ppb
		1,4-Dichlorobenzene	0.32	ND ppb
		Dichlorodifluoromethane	0,24	ND ppb
		1,1-Dichloroethane	1.81	ND ppb
		1,2-Dichloroethane	0.13	ND ppb
		1,1-Dichloroethene	0.03	<5 ppb
		trans-1,2-Dichloroethene	0.13	ND ppb
		1.2 Dishlamana	0.1	ND ppb *
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	<5 ppb
		1,1,2,2-Tetrachioroethane Tetrachioroethene	0.03	ND ppb
			0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	nd	ND ppb
		Vinyl Chloride	0.18	ND ppb
505902 B -	2@7'-9'	Deamodiati		
Sample phase: Sp		Bromodichloromethane	0.1	ND ppb
* * ah	poon	Bromoform	0.2	ND ppb



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Review by:

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AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

Dates

Collected: 05/02/90

Received: 05/02/90

Analyzed: 05/03/90

Sample ID	Location	Analyte	() MDL	Concentration
Remarks:		Bromomethane	1.18	· NTO mak
		Carbon Tetrachloride	0.12	ND ppb
		Chlorobenzene	0.12	ND ppb
		Chloroethane	0.52	ND ppb
		2-Chloroethylvinyl ether	0.13	ND ppb
		Chloroform	0.05	ND ppb
		Chloromethane	0.03	17 ppb
		Dibromochloromethane	0.09	ND ppb
		1,2-Dichlorobenzene	0.05	ND ppb
		1,3-Dichlorobenzene	0.13	ND ppb
		1,4-Dichlorobenzene	0.24	ND ppb
		Dichlorodifluoromethane	1.81	ND ppb ND ppb
		1,1-Dichloroethane	0.13	ND ppb
		1,2-Dichloroethane	0.03	<5 ppb
		1,1-Dichloroethene	0.13	ND ppb
		trans-1,2-Dichloroethene	0.1	ND ppb
		1,2-Dichloropropane	0.04	ND ppb
		cis-1,3-Dichloropropene	0.34	ND ppb
		tran-1,3-Dichloropropene	0.34	ND ppb
		Methylene Chloride	0.25	146 ppb
		1,1,2,2-Tetrachloroethane	0.03	ND ppb
		Tetrachloroethene	0.03	ND ppb
		1,1,1-Trichloroethane	0.03	ND ppb
		1,1,2-Trichloroethane	0.02	ND ppb
		Trichloroethene	0.03	ND ppb
		Trichlorofluoromethane	nd	ND ppb
v		Vinyl Chloride	0.18	ND ppb
	3 - 3 @ 5' - 7'	Bromodichloromethane	0.1	NT) -nt
Sample phase:	Split Spoon	Bromoform	0.1	ND ppb
Remarks:		Bromomethane	1.18	ND ppb
		Carbon Tetrachloride	0.12	ND ppb
			0.12	ND ppb



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AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

Dates

Collected: 05/02/90 Received: 05/02/90

Analyzed: 05/03/90

Sample ID	Location	Analyte	() MDL	Concentration	
-		Chlorobenzene	0.25	ND ppb	

	Chlorobenzene	0.25	NID
	Chloroethane	0.52	ND ppb
	2-Chloroethylvinyl ether	0.32	ND ppb
•	Chloroform	0.13	ND ppb
	Chloromethane	0.03	<5 ppb
	Dibromochloromethane	0.08	ND ppb
	1,2-Dichlorobenzene	0.05	ND ppb
	1,3-Dichlorobenzene	0.13	ND ppb
	1,4-Dichlorobenzene	0.32	ND ppb
	Dichlorodifluoromethane	1.81	ND ppb
	1,1-Dichloroethane	0.13	ND ppb
	1,2-Dichloroethane	0.13	ND ppb
	1,1-Dichloroethene	0.03	<5 ppb
	trans-1,2-Dichloroethene	0.13	ND ppb
	1,2-Dichloropropane	0.1	ND ppb
	cis-1,3-Dichloropropene	0.04	ND ppb
	tran-1,3-Dichloropropene	0.34	ND ppb
	Methylene Chloride	0.34	ND ppb
	1,1,2,2-Tetrachloroethane		ND ppb
	Tetrachloroethene	0.03	ND ppb
	1,1,1-Trichloroethane	0.03	ND ppb
	1,1,2-Trichloroethane	0.03	ND ppb
	Trichloroethene	0.02	ND ppb
	Trichlorofluoromethane	0.03 nd	ND ppb
	Vinyl Chloride	na 81.0	ND ppb
		0.19	ND ppb
A505904 B - 4 @ 4'	Bromodichloromethane	0.1	N 7775
Sample phase: Split Spoon	Bromoform	0.1	ND ppb
Remarks:	Bromomethane		ND ppb
	Carbon Tetrachloride	1.18	ND ppb
	Chlorobenzene	0.12	ND ppb
•	Chloroethane	0.25	ND ppb
	oo.comanic	0.52	ND ppb

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ANALYSIS REPORT - EPA 601 · SW-846 8010

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AA Truck Rental

28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

<u>Dates</u>

Collected: 05/02/90

Received: 05/02/90

Analyzed: 05/03/90

r y- monder r. Grenningt			-	
Sample ID Location	Analyte	() MDL	Concentration	
	2-Chloroethylvinyl ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene tran-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichloroethene Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Vinyl Chloride	0.13 0.05 0.08 0.09 0.15 0.32 0.24 1.81 0.13 0.03 0.13 0.1 0.04 0.34 0.34 0.25 0.03 0.03 0.03 0.03	ND ppb	

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg ND= Not Detected B=cmpd in blank; NA = Not Analyzed; MDL varies by dilution



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ANALYSIS REPORT - Total Pet. Hydrocarbons

Page 1

05/21/90

Review by: 1 Studies

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AA Truck Rental 28-90 Review Avenue

Long Island City, NY

Sampled by: Michael F. Gremillion

Dates

Collected: 05/02/90

Received: 05/02/90

Analyzed: 05/11/90

Sample ID	Location	Analyte	() MDL	Concentration
A505901 Sample phase Remarks:	B - 1 @ 7'- 9' :: Split Spoon	Total Recoverable Petroleum Hydrocarbon	1-10	56432 ppm
A505902 Sample phase Remarks:	B - 2 @ 7'- 9' : Split Spoon	Total Recoverable Petroleum Hydrocarbon	1-10	624.3 ppm
A505903 Sample phase Remarks:	B - 3 @ 5' - 7' : Split Spoon	Total Recoverable Petroleum Hydrocarbon	1-10	176.7 ppm
A505904 Sample phase Remarks:	B - 4 @ 4' : Split Spoon	Total Recoverable Petroleum Hydrocarbon	1-10	626.9 ppm

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg ND= Not Detected B=cmpd in blank; NA = Not Analyzed; MDL varies by dilution



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ANALYSIS REPORT - Petroleum Product ID

Page 1

05/21/90

Client

AA Truck Rental

28-90 Review Avenue

Long Island City, NY

<u>Dates</u>

Collected: 05/17/90

Received: 05/18/90 Analyzed: 05/21/90

Sampled by: Christopher Migliore

Sample ID Location	Analyte .	MDL	Concentration
A550601 Well #1 Sample phase: Liquid Remarks: Floating Product	Gasoline Lubricating Oils Kerosene #2 Fuel Oil / Diesel #4 Fuel Oil #6 Fuel Oil Unknown Hydrocarbon Mix	1 1 1 1 2 4	ND ppm ND ppm ND ppm Present ppm ND ppm ND ppm ND ppm ND ppm

ppb=ug/L, ug/Kg; ppm=mg/L, mg/Kg ND= Not Detected B=cmpd in blank; NA = Not Analyzed; MDL varies by dilution



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TYREE BROTHERS ENVIRONMENTAL SERVICES, INC. 208 ROUTE 109 · FARMINGDALE · NEW YORK 11735

			1735
CLIENT: Eric Robe LOCATION: AA Truck Renta 28-90 Review Aven Long Island City, N.	Drill Method Driller: Logged by: Sample Type	Rick Doxey Depth (ft.): 7	Screen Intvl.(ft.):
DEPTH BELOW (ft.) SURFACE: RDC	A BLOW	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
		Light brown, fine grained silty sand	Gasoline odor
5			
120 p	pm	Gray, fine silty sand	Strong gasoline odor
10		Drilled 7' boring and split spoon sampled from 7'-9'.	
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TYREE BROTHERS ENVIRONMENTAL SERVICES, INC. 208 ROUTE 109 • FARMINGDALE • NEW YORK 11735

					- TORRE 11755	
· ·	CLIENT: Eric LOCATION: AA Truck 28-90 Review Long Island C	Rental Avenue City, N.Y.	Logged by	od: Hollow Stem Aug. Rick Doxey Michael Gremillion Cas Cas Cas	sing Diam.(in.): Sing Length(ft.): S	creen Lgt.(ft.): creen Intvl.(ft.): creen Type: creen Slot:
•	DEPTH BELOW (ft.) SURFACE:	OVA RDGS.	BLOW COUNTS	FIELD DESCRIPTION (OF SOIL :	W.: 7' DRILLER'S REMARKS:
,	0 			Black, medium to fine g silty sand		trong petroleum dor
Section Return						
		170 ppm		Black, silty clay and de		rong petroleum lor
				Drilled 7' boring and spl sampled from 7'-9'.	lit spoon	
· · · · · · · · · · · · · · · · · · ·	15 					
	 20					
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				ORK 11/35	
CLIENT: Eric LOCATION: AA Truck R 28-90 Review L Long Island Ci	ental Avenue	Logged by: Michael Gremillion Sample Type: Split Spoon Date: 5/2/90 Weather 709/9		Screen Lgt.(ft.): Screen Intvl.(ft.): Screen Type: Screen Slot:	
DEPTH BELOW (ft.) SURFACE:	OVA RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SO		IW.: 5' DRILLER'S REMARKS:
			Gray, medium to fine grained silty sand		No odor
5	15 ppm		Gray, medium to fine grained sile		No odor (Moist)
			Drilled 5' boring and split sposampled from 5'-7'.	on	
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TYREE BROTHERS ENVIRONMENTAL SERVICES, INC. 208 ROUTE 109 · FARMINGDALE · NEW YORK 11735

				735
CLIENT: Eric LOCATION: AA Truck 28-90 Review Long Island C	Rental Avenue	Logged by Sample Ty	od: Hollow Stem Aug. Rick Doxey Michael Gremillion Diam.(in.): 12 Depth (ft.): 4 Casing Diam.(in.):	E/WELL DATA Screen Lgt.(ft.): Screen Intvl.(ft.): Screen Type: Screen Slot: DTW.:
DEPTH BELOW (ft.) SURFACE:	OVA RDGS.	BLOW COUNTS	FIELD DESCRIPTION OF SOIL:	DRILLER'S REMARKS:
0	5 ppm		Gray, medium to fine grained silty sandwith rocks and debris	Ammonia odor
5	•		Drilled 4' boring to refusal and sampled off the augers at 4'.	
10				
15				
20				
25 				
35				
