

TEST BORING / PROBE LOG

CODE: SP-12

Site Location:	Brooklyn	Installer:	Impact Environmental
Job Number:	97-070	Installation Method:	Geoprobe
Client:	NPV	Date Begin/End:	5/7/97
Client Contact:	Charles Voorthis	Surface Elevation:	
Boring Code:	SP-12	Depth to Water:	
Location Description:		Total Depth:	10 feet
Geologist:	James Mulvey	Page #:	1

Depth Below Grade {feet}	Color [Munsell]	Recovery	FID Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0	10YR 5/6 Yellowish Brown					Asphalt	
2						Brick Fines	
3	10YR 5/6 Yellowish Brown					Brick Fines	
4	10YR 5/6 Yellowish Brown					Brick Fines	
5	10YR 5/6 Yellowish Brown					Brick Fines	
6	10YR 4/8 Red					Hard Red Clay	
7	10YR 2/2 Very Dark Brown					Fine to Medium Strong Odor	
8	10YR 2/1 Black					Fine to Medium Strong Odor	
9	10YR 2/1 Black					Fine to Medium Strong Odor	
10	10YR 2/2 Very Dark Brown					Fine to Medium Strong Odor	

Note: USCS (Unified Soil Classification System)

TEST BORING / PROBE LOG


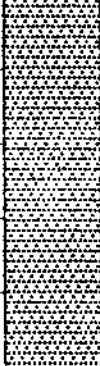
CODE: SP-13

Site Location:	Brooklyn	Installer:	Impact Environmental
Job Number:	97-070	Installation Method:	Geoprobe
Client:	NPV	Date Begin/End:	5/7/97
Client Contact:	Charles Voorhis	Surface Elevation:	
Boring Code:	SP-13	Depth to Water:	
Location Description:		Total Depth:	10 feet
Geologist:	James Mulvey	Page #:	1

Depth Below Grade [feet]	Color [Munsell]	Recovery	FI Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0	10YR 5/6 Yellowish Brown					Asphalt	
2						Brick Fines	
3	10YR 5/6 Yellowish Brown					Brick Fines	
4	10YR 5/6 Yellowish Brown					Brick Fines	
5	10YR 5/6 Yellowish Brown					Brick Fines	
6	10YR 4/8 Red					Hard Red Clay	
7	10YR 2/2 Very Dark Brown					Fine to Medium Strong Odor	
8	10YR 2/1 Black					Fine to Medium Strong Odor	
9	10YR 2/1 Black					Fine to Medium Strong Odor	
10	10YR 2/2 Very Dark Brown					Fine to Medium Strong Odor	

Note: USCS (Unified Soil Classification System)

CODE: SP-16

Depth Below Grade [feet]	Color [Munsell]	Recovery	FID Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0	10YR 2/2 Very Dark Brown					Asphalt Fine to Medium	
2	10YR 2/2 Very Dark Brown					Fine to Medium	
3	10YR 2/2 Very Dark Brown					Fine to Medium	
4	10YR 2/1 Black					Fine to Medium Strong Odor	
5	10YR 2/1 Black					Fine to Medium Strong Odor	
6	10YR 2/1 Black					Fine to Medium Strong Odor	
7	10YR 2/1 Black					Fine to Medium Strong Odor	
8	10YR 2/1 Black					Fine to Medium Strong Odor	

Note: USCS (Unified Soil Classification System)

CODE: SP-17

[illegible]

Note: USCS (Unified Soil Classification System)

CODE: SP-18

Depth Below Grade [feet]	Color [Munsell]	Recovery	FID Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0						Asphalt	
10YR 2/2 Very Dark Brown						Brick Fines	
2							
10YR 2/1 Black						Brick Fines	
3							
10YR 2/2 Very Dark Brown						Brick Fines	
4							
10YR 2/2 Very Dark Brown						Brick Fines	
5							
2 Clay 5/1 Blueish Gray						Clay	
6							
10R 4/6 Red						Medium to coarse Gravel	
7							

Note: USCS (Unified Soil Classification System)

CODE: SP-19

Site Location:	Brooklyn	Installer:	Impact Environmental
Job Number:	97-070	Installation Method:	Geoprobe
Client:	Brooklyn	Date Begin/End:	5/5/97
Client Contact:	Charles Voorhis	Surface Elevation:	
Boring Code:	SP-19	Depth to Water:	
Location Description:		Total Depth:	7 feet
Geologist:	James Mulvey	Page #:	1

Note: USCS (Unified Soil Classification System)

TEST BORING / PROBE LOG

CODE: SP-20

Site Location:	Brooklyn	Installer:	Impact Environmental
Job Number:	97-070	Installation Method:	Geoprobe
Client:	Brooklyn	Date Begin/End:	5/5/97
Client Contact:	Charles Voorhis	Surface Elevation:	
Boring Code:	SP-20	Depth to Water:	
Location Description:		Total Depth:	4 feet
Geologist:	James Mulvey	Page #:	1

Depth Below Grade [feet]	Color [Munsell]	Recovery	FID Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0	10YR 1/1 Black					Asphalt	
3						1/4" Blue Gravel Stone	
4	10YR 1/1 Black					Pieces of Anthracite	
	REFUSAL						

Note: USCS (Unified Soil Classification System)

CODE: SP-21

Depth Below Grade [feet]	Color [Munsell]	Recovery	FID Reading [ppm]	Description [USCS]	Lithology	Description	Sample
0	10YR 2/2 Very Dark Brown					Asphalt Medium to Fine Wood Chips/Brick Fines	
3	10YR 2/1 Black					Strong odor/ Wet Black Staining on Gloves	
4	10YR 2/1 Black					Strong odor/ Wet Black Staining on Gloves	
5	10YR 2/1 Black					Strong odor/ Wet Black Staining on Gloves	
6	10YR 2/1 Black					Strong odor/ Wet Black Staining on Gloves	
7	10YR 2/2 Very Dark Brown						Medium to Fine

Note: USCS (Unified Soil Classification System)

CODE: SP-22

[illegible]

Note: USCS-(Unified Soil Classification System)

Third Party Sites with Historical Usage of PAHs and Tar

Figure A-1
Tar and PAHs Sources in Gowanus Canal



Source: USACE, Gowanus Historic Resources Report, 2004, Figure 3-1

1. Fulton MGP
2. Citizens MGP
3. Metropolitan MGP
4. US Government Toluol Plant
5. US Government Toluol Plant
6. US Government Toluol Plant
7. Barrett Manufacturing
8. Warren Chemical & Manufacturing Co.
9. Cranford Asphalt Company
10. Brooklyn Alcatraz Asphalt Company
11. Coal Tar Product Company
12. New York City Asphalt Plant
13. New York City Incinerator and Dump
14. New York City Asphalt Plant
15. New York City Incinerator, Dump, and Marine Transfer Station
16. New York City Flushing Tunnel
17. New York City Transit related
18. Standard Asphalt Co.
19. David E. Kennedy, Inc. /Kentile, Inc. /Kentile Floors, Inc.
20. Uvalde Asphalt Paving Company
21. Moen's Asphaltic Cement Company
22. C.M Higgins & Co./Higgins Co./Higgins Ink Co., Inc.
23. Wm. J. Matheson & Co.
24. Commonwealth Color & Chemical Company
25. Ernest Zobel Co. Inc. /Ernest Zobel Chemical Corp.
26. Zobel, Stein & Campbell Company
27. Atlas Color
28. Iridescent Dyestuff & Color Company
29. Blythe Chemical Company
30. H. Koppers Co./Koppers Gas and Coke Co./Koppers Seaboard Coke Co.
31. New York City Power Plant and Coal Yard
32. Greason Son & Dazell, Inc.
33. Pittston Prospect Coal Company
34. Scranton & Lehigh Coal Co., Inc./Kelsey & Loughlin Co./Patterson Fuel Oil Co. Inc.
35. Burns Brothers
36. Eppinger & Russell Co.
37. SPX Corporation (O-Z Gedney Co. Inc.)
38. J.F. Schmadene Inc.
39. The Lidford Co.
40. Schroeder & Horstman
41. Thompson & Co./Nelsons Brothers
42. Somers & Conzen Coal, Co. Inc.
43. Verizon New York, Inc. (NYNEX Corp. and New York Telephone Co.)
44. NIC Holding Corp. (Northville Industries Corp., Premium Corp, Premium Coal & Oil Co.)
45. Bayside Fuel Oil Corp.
46. Chevron USA, Inc. (Union Oil Company of California, Pure Oil Co.
47. ExxonMobil Corp. (Standard Oil of New York)
48. TDA Industries, Inc./Northeastern Plastics, Inc.
49. H.J. Baker & Bro., Inc. (Forrester Fertilizer Co.)
50. Consolidated Edison Company of New York, Inc. (Brooklyn Edison Co.)
51. Citigroup, Inc./MRC Holdings (American Can Co., Primerica Corp., Travelers Group, Inc.)
52. MCIZ Corp. (Fifteen Second Avenue LLC, 36-2nd-J Corp., 107 Sixth Street LLC)
53. Brink's Inc. (The Pittston Co., Metropolitan Petroleum Corp.)
54. Kraft Foods Global, Inc. (New York Tartar Co., Standard Brands, Nabisco)/Stauffer Management Company, LLC (Stauffer Chemical Co.)
55. CBS Corp. (H. Krantz Manufacturing Co., Inc. Westinghouse Electric Co.)
56. Hauck Manufacturing Co.
57. Brooklyn Improvement Company
58. John W. Masury and Son
59. U.S. Postal Service/U.S. General Service Administration
60. Chemtura Corp. (Argus Chemical Co., Witco Chemical Co., Crompton Corp.)
61. US Maritime Commission/U.S. Navy
62. Puget Sound Commerce Center, Inc.
63. Amerada Hess Corp. (Patchogue Oil, Ira Bushey & Sons)