

APPENDIX A

APPENDIX A - 1

HEMPSTEAD

Town approves Island Park condo complex

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Developers can now move forward to replace an 11-acre contaminated site on Harbor Isle in Island Park with a 167-unit condo complex after approval by the Town of Hempstead last night.

The town board approved

Posillico Development Company's application to rezone the site along Island Parkway South from industrial to residential. The 11.56-acre site was contaminated by spillage from the previous tenant, Cipro Oil, and the company has already undertaken the massive, costly job of cleaning it up.

The project's next stop is the Nassau County Planning Commission for site plan approval.

Posillico's November proposal to the town board included 11 buildings with units up to 3,000 square feet; boat slips and a boat launch; parking spaces; 40,000 square feet of undeveloped land and 25,000 square

feet of landscaping. Experts for the company testified that the environment and area traffic would not be worsened.

In 2004, the Posillicos withdrew a request for a 98-unit housing complex after neighbors said they wanted single-family homes. Now, most residents support the larger Project because the company

has been using the land as an industrial site, generating truck traffic.

Company officials, who bought the site in 2000, have said that because there are now more units, they will be more affordable. According to Posillico attorney William Cohn, the units will range from \$300,000 to more than \$1 million.

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SI/EG

In early 1993 SI/EG evaluated site-wide soil conditions by digging and sampling forty five test pits to groundwater on a 100 by 100 foot grid. Soil samples from each pit were collected approximately 6-inches above the water table and, based on field screening results, 31 samples were selected for total petroleum hydrocarbon (TPH) analysis using Method 418.1. Five of the 31 samples were selected at random and further analyzed for semivolatile compounds (SVOCs) using Method 8270. An additional five samples collected near ASTs that stored gasoline were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using Method 8010. Data summary tables are included in Appendix A-2-1. Maps showing the sampling locations were not available in the SI/EG report.

TPH concentrations ranged from less than the laboratory reporting limit to 25,700 mg/kg, with the highest concentration in sample Z-3. Total SVOC concentrations in the samples selected for analysis (Z-1, H-4, E-5, B-5 and G-7) ranged from approximately 31.6 mg/kg to 407.2 mg/kg, with the highest concentration in sample B-5 (1 to 1.5 feet below grade). Total SVOC concentrations in all samples exceeded the NYSDEC soil cleanup criteria in effect at the time the work was done, but most of the detected constituents were Tentatively Identified Compounds (TICs) found by the analytical forward library search. In addition, the concentration of individual SVOC constituents in all samples except H-4 exceeded one or more of the Department's cleanup guidelines. Polychlorinated biphenyls (PCBs) were detected in the forward library scan of samples H-4 and G-7, with concentrations reported at approximately 4.2 mg/kg (H-4) and 0.9 mg/kg (G-7).

The total concentration of BTEX in the five samples collected near the ASTs ranged from less than the laboratory reporting limit to approximately 0.4 mg/kg, with the highest concentration is sample C-4 (2 feet below grade). Samples D-2 and C-4 contained toluene and total xylenes at concentrations exceeding the NYSDEC soil cleanup criteria.

Round 2 Soil Sampling – PCBs

Eight test pits were dug in and around the area of samples G-7 and H-4, near the southwest property boundary, to better characterize the extent of PCB residuals detected during the initial sampling round. Fifteen soil samples collected between 0.5 to 3.5 feet below grade and one sample of standing water in excavation H-4 were analyzed for PCBs using Method 8080 (soil) and Method 608 (water). Data summary tables are included in Appendix A-2-1.

In the H-4 area, total PCB concentrations ranged from less than the laboratory reporting limit to 0.071 mg/kg, with the highest concentration in the sample from H4D (3.5 feet below grade). In the G-7 area, total PCB concentrations ranged from less than the laboratory reporting limit to 5.4 mg/kg, with the highest concentration in the sample from G7A (0.5 feet below grade). Three samples from the G-7 area contained PCBs at concentrations exceeding the 1 mg/kg NYSDEC soil cleanup criteria in effect at the time the work was done. PCBs were not detected in the water sample from test pit H-4 at a concentration exceeding the laboratory reporting limit. The individual PCB Aroclors detected in the soil samples are not identified in SI/EG's report.

Round 2 Soil Sampling – SVOCs

Elevated concentrations of TPH were detected in the samples from test pits A-6, C-5 and D-2 during the initial round of sampling. Additional samples for SVOC analysis were collected to further characterize soil conditions at these locations. Data summary tables are included in Appendix A-2-1.

Total SVOC concentrations ranged from approximately 101.9 mg/kg to 256.9 mg/kg, with the highest concentration in the sample from C-5 (2 feet below grade). Each sample contained individual SVOC constituents at concentrations exceeding the NYSDEC soil

cleanup criteria in effect at the time the work was done. In addition, the total concentration of SVOCs in all samples exceeded the applicable NYSDEC cleanup criteria (most of the detected constituents were TICs).

Round 3 Soil Sampling – PCBs

In June 1994 S/EG performed additional soil sampling near the southwest property boundary to further define the extent of PCB residuals. A grid with 30-foot spacing was used to guide the sampling and soil samples were collected at 6 to 12-inches below grade at each grid node. The samples were analyzed in the field for PCBs using immunoassay test kits. Data summary tables and available sample location maps are included in Appendix A-2-1.

Of the 20 samples collected, eight contained PCBs at concentrations estimated between 1 mg/kg to 4 mg/kg, and one sample contained PCBs at concentrations estimated between 0.5 and 1 mg/kg. PCB concentrations in the remaining 11 samples did not exceed the detection limit of the test kit. S/EG indicated that one sample was submitted to a fixed laboratory for confirmation analysis, but the analytical results were not available at the time their report was issued. Based on the field screening sampling results, S/EG concluded that the extent of PCB-impacted soil was approximately 45 feet by 60 feet.

Groundwater Sampling Program – 1989 through 1993

Twelve monitoring wells were installed at the facility in the late 1980s. According to S/EG, soil from monitoring well boreholes W-5 through W-12 was analyzed for BTEX, dichlorobenzene and lead. Data summary tables and the well location map are included in Appendix A-2-2.

One or more individual BTEX constituents were detected in all samples, with total BTEX concentrations ranging from 0.097 mg/kg to approximately 2.2 mg/kg (W-7). Except for the sample from borehole W-11, the concentration of benzene, toluene and xylenes in all

samples exceeded the NYSDEC soil cleanup guideline in effect at the time the work was done. Lead was detected in the samples from W-10 and W-12 at low concentrations that did not exceed soil cleanup guidelines.

Three rounds of groundwater sampling were performed in April 1989, May 1991 and January 1992 by other parties. A fourth round by SI/EG was performed in April 1994. The laboratory results are summarized in the data summary tables in Appendix A-2-2.

The April 1989 data indicate that total BTEX concentrations ranged from 3.3 µg/l to 197.5 µg/l, with the highest concentration in the sample from well W-9, near Tank 11 on the northern end of the property. Wells W-1 through W-4 were not sampled during this round. Individual BTEX constituents were detected in all but one sample (W-5) at concentrations exceeding the groundwater standards in effect at the time the sampling was done. Groundwater samples from wells W-5 through W-10 were also analyzed for TPH. TPH was not detected in any sample at a concentration exceeding the laboratory reporting limit.

All 12 wells were sampled in May 1991 for BTEX. The laboratory data indicate total BTEX concentrations ranged from less than the laboratory reporting limit to 34.5 µg/l, with the highest concentration in the sample from well W-1, near Tank 4 on the southeast portion of the property. Sample W-1 was the only sample that contained individual BTEX constituents at concentrations exceeding NYSDEC groundwater standards.

The entire monitoring well network was again sampled in January 1992 for BTEX and SVOCs. Samples from ten of the 12 monitoring wells did not contain BTEX constituents at concentrations exceeding the laboratory reporting limits. Total BTEX concentrations in the samples from the two remaining wells were 31.3 µg/l (W-1) and 74.6 µg/l (W-8). The concentration of ethylbenzene and total xylenes in both samples exceeded NYSDEC groundwater standards. Total SVOC concentrations ranged from less than the laboratory reporting limit to 188.4 µg/l at W-4, near the northwest corner of the property. The

sample from W-4 was the only sample that contained individual SVOC constituents at concentrations exceeding NYSDEC groundwater standards.

Supplemental Groundwater Sampling Program – 1994

Based on the historical groundwater monitoring database, S/EG installed six additional wells designated MW-1 through MW-6 to address gaps in the monitoring well network coverage. The six new wells and four existing wells (W-2, W-4, W-8 and W-11) were sampled in April 1994 for volatile organic compounds (VOCs) and SVOCs. MW-1 was also sampled for PCBs. The laboratory results are included in the data summary tables in Appendix A-2-2.

Total VOC concentrations ranged from 6 µg/l to 759 µg/l, with the highest concentration found in the sample from W-8 on the east side of Tank 10. Except for the samples from W-2 and W-8, the detected compounds were made up entirely of non-target constituents (i.e. tentatively identified compounds). Sample W-8 was the only sample that contained individual VOC compounds at concentrations exceeding NYSDEC groundwater standards. Total SVOC concentrations ranged from 54 µg/l to 666 µg/l (W-8). The sample from well W-11, at the north property boundary, had the highest concentration of target compounds (245 µg/l) and contained one SVOC constituent at a concentration exceeding the NYSDEC groundwater standard. PCBs were not detected in the sample from MW-1 at a concentration exceeding the laboratory reporting limit.

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Table 4
Summary of Field Screening - Test Pits
Former Cibro Petroleum Terminal
Island Park, New York
(May 27, 1993)

LOC	DEPTH GW	DEPTH SAMPLE	OVM PPM	DESCRIPTION	REMARKS
A-5	2.0	1.5	6.8	Mixed fill	
A-6	3.0	2.5	16.0	gry f sd w/Grv	
A-7	2.5	2.0	5.0	mixed fill	stained soil at 2.0'
B-5	1.5	1.0	71.9	mixed fill	
B-6	1.5	1.0	2.6	lt brn m sd w/Grv	
B-7	2.5	2.0	45.0	brn silty m sd w/Grv	stained soil at 3.0'
B-8	2.0	1.5	1.9	mixed fill	
C-1	2.5	2.0	6.6	brn silty m sd w/Grv	Product in soil Below GW
C-2	1.0	0.5	0.0	mixed fill	
C-3	2.0	1.5	5.3	brn silty m sd w/Grv	Petroleum Odor
C-4	2.5	2.0	24.0	mixed fill	Petroleum Odor
C-5	3.0	2.5	31.0	mixed fill	Product in soil Below GW
C-6	1.0	0.5	42.0	mixed fill	
C-7	1.0	0.5	43.0	mixed fill	
C-8	1.5	1.0	1.9	mixed fill	
D-1	*	2.0	5.5	lt brn m sd w/Grv	Petroleum Odor
D-2	2.0	1.5	16.0	mixed fill	
D-5	1.0	0.5	3.5	mixed fill	Petroleum Odor
D-7	1.5	1.0	37.0	brn silty m sd w/Grv	Petroleum Odor
D-8	2.0	1.5	2.2	gry silty sd	
E-1	2.5	2.0	0.1	tn m sd	
E-2	1.0	0.5	31.0	tn silty cl w/org	
E-3	3.0	2.5	27.0	gry m sd	
E-5	1.5	1.0	65.0	mixed fill	Oil staining at surface
E-6	1.0	0.5	3.7	gry m sd	
E-7	1.0	0.5	2.7	mixed fill	
E-8	1.5	1.0	2.8	mixed fill	
F-1	2.0	1.5	1.4	mixed fill	
F-2	1.0	0.5	0.0	mixed fill	
F-5	1.0	0.5	0.0	mixed fill	
F-6	1.0	0.5	1.1	mixed fill	
F-7	0.7	0.2	2.4	gry m sd	
G-1	3.5	3.0	1.9	mixed fill	
G-2	3.0	2.5	6.3	mixed fill	concrete at 3.0'
G-3	2.0	1.5	10.0	mixed fill	Petroleum Odor
G-4	**	2.0	0.3	brn silty m sd w/Grv	Asphalt at 2.0'
G-5	2.0	1.5	0.0	brn silty m sd w/Grv	
G-6	1.5	1.0	0.0	brn silty m sd w/Grv	
G-7	1.0	0.5	2.4	brn silty m sd w/Grv	
H-4	1.0	0.5	0.0	brn silty m sd w/Grv	
H-5	1.0	0.5	0.0	mixed fill	
H-6	1.0	0.5	0.0	mixed fill	
Z-1	2.5	2.0	50.8	mixed fill	
Z-2	2.0	1.5	39.0	mixed fill	
Z-3	2.5	2.0	61.0	mixed fill	

Note: * - Concrete Slab at 2.0' Below Surface
 ** - Groundwater not observed.

Table 5
Summary of First Round Sampling-Test Pits
Former Cibro Petroleum Terminal
Island Park, New York
(February 23-24, 1993)

Sample ID:	D-2	C-2	C-4	E-3	D-5
Laboratory ID:	T302353-06	T302353-09	T302353-13	T302354-14	T302354-15
Date:	2/24/93	2/23/93	2/23/93	2/23/93	2/24/93
Depth:	1.5	0.5	2.0	2.5	0.5
Results in Parts Per Million (mg/kg)					
TPH	16400	43.70	8410	4580	86
Results in Parts Per Billion (ug/kg)					
Benzene	ND	ND	ND	ND	ND
Toluene	146	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	460	ND	ND
Total BTEX	146	ND	460	ND	ND

Note:

ND - Not Detected

Table 5 (Cont'd)
Summary of First Round Sampling-Test Pits
Former Cibro Petroleum Terminal
Island Park, New York
(February 23-24, 1993)

Sample ID:	E-5	B-5	G-7	Z-1	H-4
Laboratory ID:	T302354-02	T302354-04	T302353-01	T302353-01	T302353-11
Date:	2/24/93	2/23/93	2/24/93	2/24/93	2/24/93
Depth:	1.0-1.5	1.0-1.5	0.5-1.0	2.0-2.5	0.5-1.0
Results in Parts Per Million (mg/kg)					
TPH	6710	2440	64.1	8370	< 27.2
Results in Parts Per Billion (ug/kg)					
Semi-Volatile Organics					
1,2-Dichlorobenze	ND	ND	112 J	ND	ND
1,2,4-Trichloroben	ND	ND	44 J	ND	ND
Naphthalene	2023.00	ND	55 J	ND	ND
Acenapthene	ND	ND	128 J	ND	ND
Dibenzofuran	695 J	ND	50 J	ND	ND
Fluorene	1362 J	816 J	102 J	ND	ND
Phenanthrene	2624	1183 J	980	ND	ND
Anthracene	ND	ND	211 J	ND	ND
Fluoranthene	ND	411 J	1629	ND	ND
Pyrene	823 J	371 J	1328	486 J	ND
ButylbenzylPhthal	ND	ND	301 J	ND	ND
Benzo(A)Anthrace	ND	ND	739	ND	ND
Chrysene	ND	ND	884	ND	ND
Bis(2-Ethylhexyl)-P	ND	ND	618	ND	ND
Benzo(B)Fluoranth	ND	ND	605	ND	ND
Benzo(K)Fluoranth	ND	ND	1245	ND	65 J
Benzo(A)Pyrene	ND	ND	680	ND	ND
Indeno(1,2,3-CD)Py	ND	ND	352 J	ND	ND
Dibenzo(A,H)Anthr	ND	ND	199 J	ND	ND
Benzo(G,H,I)Peryle	ND	ND	314 J	ND	ND
Total Targeted:	7,527	2,781	10,576	468	65
Total Non-Target	217,763	404,450	30,153	397,079	31,546
Total:	225,290	407,231	40,729	397,547	31,611

Notes:

ND - Not Detected

J - Compound detected but below the MDL.

Table 5 (Cont'd)
Summary of First Round Sampling-Test Pits
Former Cibro Petroleum Terminal
Island Park, New York
(February 23-24, 1993)

LOC	LAB ID NO:	DATE	TPH (mg/kg)
A-6	T302354-05	2/23/93	10,400
B-7	T302354-06	2/23/93	4,730
B-8	T302354-12	2/24/93	<27.3
C-1	T302353-03	2/23/93	2,240
C-3	T302354-17	2/23/93	216
C-6	T302354-03	2/23/93	639
C-7	T302354-07	2/23/93	7,290
D-7	T302354-08	2/24/93	7,080
D-8	T302354-11	2/24/93	124
E-1	T302353-02	2/23/93	126
E-2	T302353-05	2/23/93	6,970
E-7	T302354-09	2/24/93	267
E-8	T302354-10	2/24/93	697
F-5	T302354-13	2/24/93	145
G-2	T302354-16	2/23/93	2,520
G-3	T302353-10	2/23/93	1,080
G-4	T302353-12	2/23/93	<27.3
G-6	T302354-01	2/24/93	<27.5
H-5	T302353-14	2/24/93	<27.2
Z-2	T302353-08	2/24/93	1,330
Z-3	T302353-09	2/24/93	25,700

TABLE 6 (CONT)
SUMMARY OF SECOND ROUND SAMPLING-TEST PITS
FORMER CIBRO PETROLEUM TERMINAL
ISLAND PARK, NEW YORK
(MAY 27, 1993)

Sample No.:	G7A-0.5	G7A-2.0	G7B-1	G7B-2.0
Lab ID:	T306022-01	T306052-05	-06	-07
Date:	5/27/93	5/27/93	5/27/93	5/27/93
Depth:	0.5	2.0	1.0	2.0
PCB (ug/kg)	5400	99	3100	ND

Sample No.:	G7C-1.5	G7D-2.0	G7D-3.0	G7D-1
Lab ID:	-08	T306052-09	-10	-11
Date:	5/27/93	5/27/93	5/27/93	5/27/93
Depth:	1.5	2.0	3.0	1.0
PCB (ug/kg)	ND	62	70	2700

Sample No.:	H4A-0.5	H4A-3.5	H4B-0.5	H4B-2.5
Lab ID:	T306022-02	T306052-12	T306052-13	-14
Date:	5/27/93	5/27/93	5/27/93	5/27/93
Depth:	0.5	3.5	0.5	2.5
PCB (ug/kg)	27	ND	ND	ND

Sample No.:	H4C-0.5	H4C-3.5	H4D-0.5	H4D-3.5
Lab ID:	-15	-16	T306052-17	-18
Date:	5/27/93	5/27/93	5/27/93	5/27/93
Depth:	0.5	3.5	0.5	3.5
PCB (ug/kg)	ND	ND	60	71

Sample No.:	H4GW
Lab ID:	T306052-19
Date:	5/27/93
PCB (ug/kg)	ND

Note:
 ND - Not Detected

TABLE 6
SUMMARY OF SECOND ROUND SAMPLING-TEST PITS
FORMER CIBRO PETROLEUM TERMINAL
ISLAND PARK, NEW YORK
(MAY 27, 1993)

Sample No.:	A6-4.0	C5-1.0	C5-2.0	D2-1.5
Lab ID:	T306052-01	-02	-03	-04
Date:	5/27/93	5/27/93	5/27/93	5/27/93
Depth:	4.0	1.0	2.0	1.5

Results In Parts Per Billion (ug/kg)

Semi-Volatile Organics
Targeted Compounds:

2-Methylnaphthalene	3500	8000	19000	ND
Dibenzofuran	ND	1700J	3200	ND
Flourene	6500	1900	2300	ND
Phenanthrene	7400	1400J	1000	ND
Anthracene	740J	16000	10000	ND
Flouranthene	460J	ND	1400	ND
Pyrene	360J	370J	280J	340J
Acenaphthene	ND	ND	2600	ND
Chrysene	ND	ND	ND	380J
Benzo (a) Pyrene	ND	ND	ND	330J
Total Targeted:	18,960	29,370	39,780	1,050
Total Non-Targeted:	143,300	159,100	217,200	100,900
Total:	162,260	188,470	256,980	101,950

Notes:

ND - Not Detected

J - Detected but below MDL

TABLE 1
SUMMARY OF POLYCHLORINATED BIPHENYLS
IN SOIL JUNE 2 AND 3, 1994
CIBRO
ISLAND PARK, NEW YORK

<u>LOCATION</u>	<u>PCB CONCENTRATION</u>
PA-1	<0.5
PA-2RR	<0.5
PA-3	<0.5
PB-1DUP	<0.5
PB-2	0.5 - 1.0
PB-3	1.0 - 4.0
PB-4	1.0 - 4.0
PC-1	<0.5
PC-2	1.0 - 4.0
PC-3	1.0 - 4.0
PC-4	1.0 - 4.0
PD-1	<0.5
PD-2	1.0 - 4.0
PD-3	1.0 - 4.0
PD-4	1.0 - 4.0
PE-1	<0.5
PE-2	<0.5
PE-3	<0.5
PF-1	<0.5
PF-2	<0.5
PF-3	<0.5

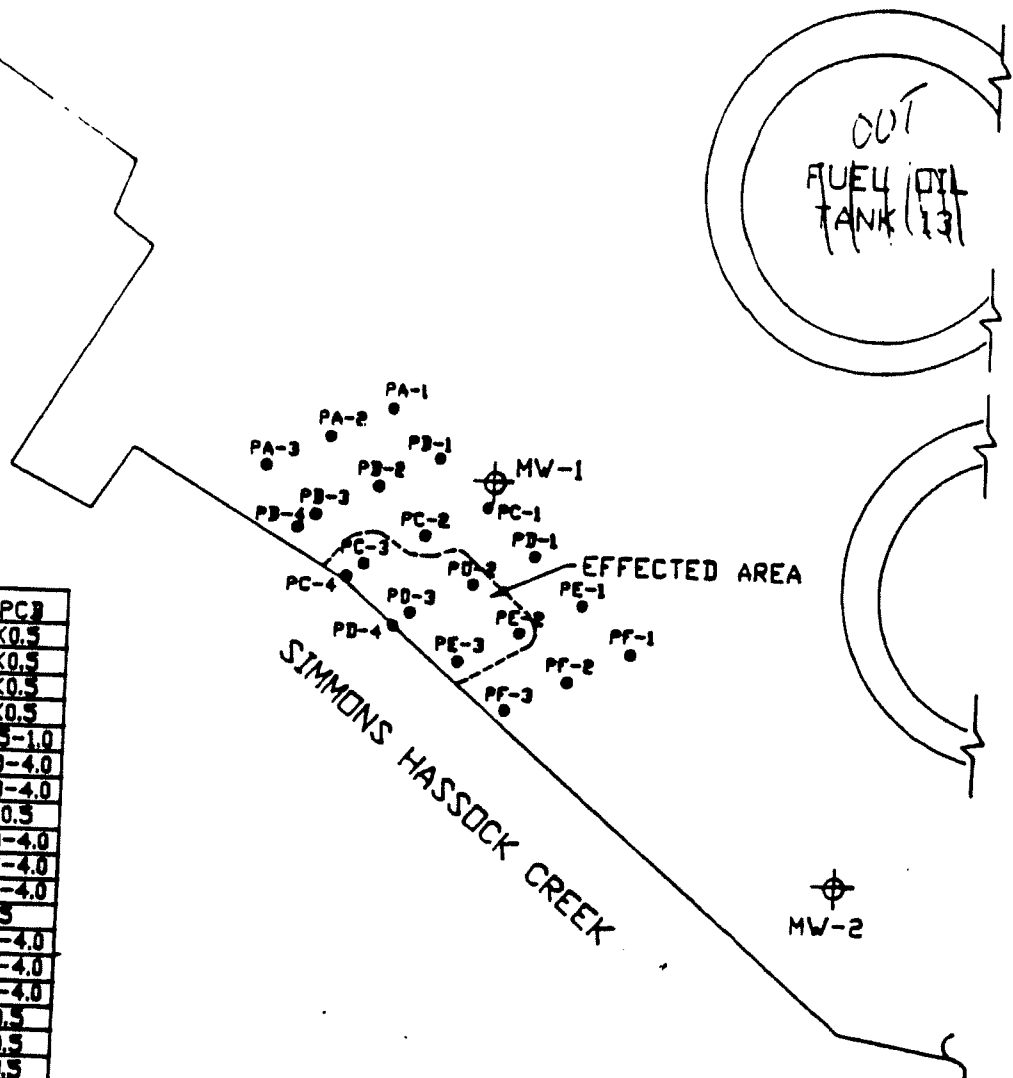
NOTES:

All Results in Parts Per Million.

PA-2RR - Sample was re-run.

PB-1DUP - A second sample was extracted from the subsurface and analyzed.

LOC.	PCB
PA-1	<0.5
PA-2RR	<0.5
PA-3	<0.5
PB-1DUP	<0.5
PB-2	0.5-1.0
PB-3	1.0-4.0
PB-4	1.0-4.0
PC-1	<0.5
PC-2	1.0-4.0
PC-3	1.0-4.0
PC-4	1.0-4.0
PD-1	<0.5
PD-2	1.0-4.0
PD-3	1.0-4.0
PD-4	1.0-4.0
PE-1	<0.5
PE-2	<0.5
PE-3	<0.5
PF-1	<0.5
PF-2	<0.5
PF-3	<0.5



LEGEND

PE-2 - PCB SOIL SAMPLE LOCATION AND DESIGNATION

NOTE

ALL CONCENTRATIONS IN MILLIGRAM PER KILOGRAM

Subsurface Investigations
 A DIVISION OF THE ENVROVISION GROUP, INC.
 331 Route 9V, Congers, NY 10920
 Tel: (914) 268-6660 FAX: (914) 268-2065

PROJECT NAME: CIBRO FORMER PETROLEUM TERMINAL

DRAWING TITLE: PCB SOIL SAMPLE LOCATIONS AND SCREENING RESULTS

SCALE: 1" = 100'

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Table 1
Summary of Soil Sampling
During Monitoring Well Installation
Former Cibro Petroleum Terminal
Island Park, New York
4/13/89

Sample ID:	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
Results in Parts Per Billion (UG/KG)								
Compound:								
Benzene	172	107	126.0	167.0	533.0	169	ND	119
Toluene	323	251	416.0	228.0	284.0	263	97	206
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	1732	ND	866	791	ND	ND
Dichlorobenzene	ND	ND	ND	ND	ND	299	ND	ND
Total	495	358	2274	395	1683	1522	97	325
Lead	ND	ND	ND	ND	ND	0.2	ND	0.03

Note:
 ND - Not Detected

Table 2
Summary of Benzene, Toluene, Ethylbenzene and Xylene Analysis
In Groundwater
Former Cibro Petroleum Terminal
Island Park, New York

Results In Parts Per Billion (UG/L)

4/17/89

Sample ID:	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
Benzene	NA	NA	NA	NA	ND	ND	4.6	2.7	3.4	ND	0.88	2.0
Toluene	NA	NA	NA	NA	3.3	5.5	3.2	3.7	12.5	ND	2.0	2.6
Ethylbenzene	NA	NA	NA	NA	ND	ND	ND	16.2	60.6	4.1	0.97	ND
Xylene	NA	NA	NA	NA	ND	ND	ND	63.0	121	13.5	4.7	ND
PHC	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA
Total	NA	NA	NA	NA	3.3	5.5	7.8	85.6	197.5	17.6	8.55	4.6

5/8/91

Sample ID:	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
Benzene	25.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	3.5	2.6	4.1	ND	1.2	ND	ND	3.1	2.0	ND	2.2	2.2
Ethylbenzene	2.1	ND	ND	ND	ND	ND	ND	2.2	ND	ND	1.8	1.1
Xylene	3.0	4.8	2.0	ND	1.1	ND	ND	7.2	2.2	ND	2.0	2.1
Total	34.5	7.4	6.1	ND	2.3	ND	ND	12.5	4.2	ND	6.0	5.4

1/31/92

Sample ID:	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	10.2	ND	ND	ND	ND	ND	ND	26.6	ND	ND	ND	ND
Xylene	21.1	ND	ND	ND	ND	ND	ND	48.0	ND	ND	ND	ND
Total	31.3	ND	ND	ND	ND	ND	ND	74.6	ND	ND	ND	ND

Notes:

ND - Not Detected

NA - Not Analyzed

Table 3
Summary of Base Neutral Compounds
in Groundwater
Former Cibro Petroleum Terminal
Island Park, New York

Results in Parts Per Billion (UG/L)

1/31/92

Sample ID:	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12
Compound:												
Acenanaphthylene	ND	ND	ND	ND	ND	10.4	ND	9.6	12.0	ND	23.2	ND
Acenanaphthene	ND	ND	ND	56.5	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	11.5	22.0	69.0	32.5	9.5	9.5	ND	ND	10.0	20.5	11.0
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.5
Anthracene	ND	17.5	ND	62.9	ND	14.5	14.5	16.0	ND	ND	ND	ND
Pyrene	ND	1.0	1.2	ND	ND	ND	1.0	ND	ND	ND	ND	11.0
Total	ND	30.0	23.2	188.4	32.5	34.4	25.0	25.6	12.0	10.0	43.7	51.5

Note:
 ND - Not Detected

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING
CIBRO
ISLAND PARK, NEW YORK

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Laboratory ID:	T405002-7A	T405002-8A	T405002-4A	T05002-8A	T405002-10A	T405002-1A
Data Sampled:	4/29/94	4/29/94	4/29/94	4/29/94	4/29/94	4/28/94

RESULTS IN MICROGRAMS PER LITER (ug/l)

VOLATILE COMPOUNDS

	1JB	2JB	2JB	2JB	1JB	ND
Methylene Chloride	1JB	2JB	2JB	2JB	1JB	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND
Total Targeted	1	2	2	2	1	ND
Total Non-Targeted	87	6	594	301	505	140
Total Volatiles	88	8	596	303	506	140

SEMI VOLATILE COMPOUNDS

	6J	6J	3J	4J	5J	5J
Di-n-butylphthalate	6J	6J	3J	4J	5J	5J
bis(2-Ethylhexyl) phthalate	2J	2J	ND	ND	2J	21
Acenaphthene	ND	4J	7J	5J	6J	7J
Dibenzofuran	ND	1J	3J	4J	6J	3J
Fluorene	ND	ND	7J	6J	7J	ND
Naphthalene	ND	ND	ND	10	32	ND
Phenanthrene	ND	ND	ND	4J	7J	4J
Pyrene	ND	ND	ND	ND	ND	1J
Anthracene	ND	ND	ND	ND	ND	ND
Flouranthene	ND	ND	ND	ND	ND	ND
Total Targeted	8	13	20	33	65	41
Total Non Targeted	122	171	491	359	431	411
Total Semi-Volatile	130	184	511	392	496	452
PCB'S	ND	NA	NA	NA	NA	NA

TABLE 2 (CONT)
SUMMARY OF GROUNDWATER RESULTS
CIBRO
ISLAND PARK, NEW YORK.

Sample ID:	W-2	W-4	W-8	W-11	Field Blank	Trip Blank
Laboratory ID:	T405002-05A	T405002-09A	T405002-02A	T405002-03A	T405002-11A	T405002-12
Data Sampled:	4/29/94	4/29/94	4/28/94	4/28/94	4/28/94	4/28/94
RESULTS IN MICROGRAMS PER LITER (ug/l)						
VOLATILE COMPOUNDS						
Methylene Chloride	ND	2JB	2JB	ND	2JB	2JB
Trichloroethene	2J	ND	ND	ND	ND	ND
Benzene	ND	ND	2J	ND	ND	ND
Toluene	ND	ND	1J	ND	ND	ND
Ethylbenzene	ND	ND	34	ND	ND	ND
Total Targeted	2	2	39	ND	2	2
Total Non-Targeted	14	4	720	452	14	3
Total Volatiles	16	6	759	452	16	5
SEMI VOLATILE COMPOUNDS						
Di-n-butylphthalate	3J	3J	6J	4J	2J	NA
bis(2-Ethylhexyl) phthalate	1J	ND	2J	ND	ND	NA
Acenaphthene	ND	ND	5J	82	ND	NA
Dibenzofuran	ND	ND	3J	53	ND	NA
Fluorene	ND	ND	3J	29	ND	NA
Naphthalene	ND	ND	52	20	ND	NA
Phenanthrene	ND	ND	ND	42	ND	NA
Pyrene	ND	ND	ND	3J	ND	NA
Anthracene	ND	ND	ND	3J	ND	NA
Flouranthene	ND	ND	ND	9J	ND	NA
Total Targeted	4	3	71	245	2	NA
Total Non Targeted	178	51	595	359	25	NA
Total Semi-Volatile	182	54	666	604	27	NA
PCB'S	NA	NA	NA	NA	NA	NA

NOTES:

ND: Not detected above laboratory MDL

NA: Not analyzed

J: Detected, but below laboratory MDL

JB: Detected, but containment present due to laboratory preparation of sample.

LEGEND

- ⊕ V-2 - WELL LOCATION AND DESIGNATION PREVIOUSLY ON-SITE
- ⊕ MV-2 - WELL LOCATION AND DESIGNATION INSTALLED BY SUBSURFACE INVESTIGATION
- GROUNDWATER CONTOUR LINE

NOTES

- VOC+15 - TOTAL VOLATILE ORGANIC COMPOUNDS
- BN+15 - TOTAL SEMI VOLATILE COMPOUND
- PCB - POLYCHLORINATED BIPHENYLS

ALL RESULTS IN MICROGRAMS PER LITER (UG/L)
CONTOUR MAP GENERATED FROM 4/28/94

Subsurface Investigations

A DIVISION OF THE ENVIROVISION GROUP, INC.
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Tel: (914) 268-6660 FAX: (914) 268-2065
PROJECT NAME: CIBRO FORMER PETROLEUM TERM
DRAWING TITLE: GROUNDWATER CONTOUR MAP AND SAMPLING RESULTS

SCALE: 1"=100' DATE: 06-18-94 FIG 2
DRAWN BY: M.K.
CHECKED BY:

