New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Spill Prevention and Response
Stony Brook University
50 Circle Road, Stony Brook, NY 11790-3409
Phone: (631) 444-0320 • **Fax:** (631) 444-0328
Website: www.dec.ny.gov

Joe Martens
Commissioner

M E M O R A N D U M

TO: Jim Harrington, P.E., Director, Remedial Bureau A

FROM: Nick Acampora, Project Manager, Region 1 Spill Prevention and Response
THRU: Karen Gomez, P.E., ROSE, Region 1

RE: **Negative BCP Significant Threat Determination**
Site Name: Former Cibro Petroleum Terminal
Site #: BCP #C130153 (C/T/V) Island Park, Nassau County
Significant Threat: Site does not pose a significant threat.

DATE: 08/16/2012

Based on all investigations performed to date and review of the December 2011 Supplemental Remedial Investigation Field Work Report, we have concluded that the site does not present a significant threat to human health or the environment.

Please find attached the supporting documentation (e.g. attach significant threat determination worksheet and/or conclusions of RI report and DOH concurrence).

Attachments

ec w/att: Jim Harrington, P.E., Director, Remedial Bureau A
Walter Parish, RHWRE, Region 1
Karen Gomez, P.E., Regional Spill Engineer
Nick Acampora, Project Manager

(01-04-11)

SIGNIFICANT THREAT DETERMINATION WORKSHEET

□ State Superfund Program
6 NYCRR 375-2.7

X Brownfield Cleanup Program
ECL 27-1411.1(c)

Site Name: Former Cibro Oil Terminal Site Site ID No. C130153

City/Town: Island Park, Hempstead County: Nassau

1. Has all available and relevant evidence regarding the Site been reviewed and the factors in 375-2.7(a)(3) considered?	X Yes (go to 2)	□ No (stop)	□ Unsure (stop)
2. Does Site contamination result in significant adverse impacts (375-2.7(a)(1)) to:			
a. species that are endangered, threatened, or of concern?	□ Yes (go to b)	X No (go to b)	□ Unsure (go to b)
b. protected streams, tidal/freshwater wetlands, or significant fish and wildlife habitat?	□ Yes (go to c)	X No (go to c)	□ Unsure (go to c)
c. flora or fauna from bioaccumulation or leads to a recommendation to limit consumption?	□ Yes (go to d)	X No (go to d)	□ Unsure (go to d)
d. fish, shellfish, crustacea, or wildlife from concentrations that cause adverse/chronic effects?	□ Yes (go to e)	X No (go to e)	□ Unsure (go to e)
e. the environment due to a fire, spill, explosion, or reaction that generates toxic gases, vapors, fumes, mists or dusts?	□ Yes (go to f)	X No (go to f)	□ Unsure (go to f)
f. areas where individuals or water supplies may be present and NYSDOH has determined there to be a significantly increased risk to public health (including from soil vapor)?	□ Yes (go to 3)	X No (go to 3)	□ Unsure (go to 3)
3. Does Site contamination result in significant environmental damage (375-2.7(a)(2))?	□ Yes (go to 4)	X No (go to 4)	□ Unsure (stop)
4. If any box in items 2 or 3 have been checked "Yes," the site presents a significant threat to public health or the environment; check here.	Significant threat to: □ Public Health □ Environment		
5. If no boxes in items 2 or 3 have been checked "Yes," the site does not present a significant threat to public health or the environment; check here.	X Not a Significant Threat		

Nick Acampora
Project Manager Name/Title (Print)

Project Manager Name (Signature)

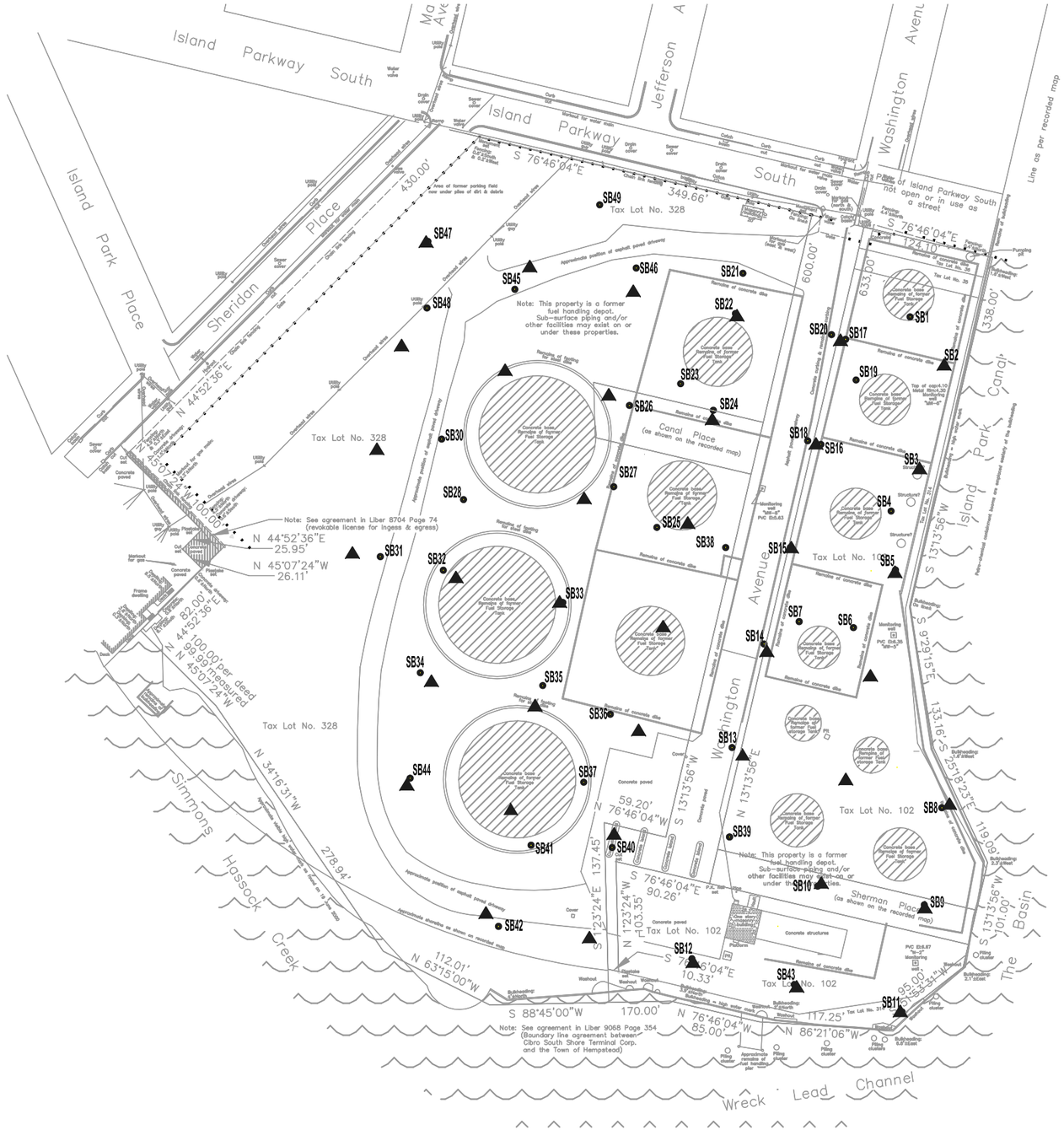
8/21/2012
Date

Bureau Director/RHWRE Name/Title (Print)

Bureau Director/RHWRE Name (Signature)

Date

07/29/10



LEGEND:

▲ - PROPOSED 100' x 100' SAMPLE LOCATION IN THE APRIL 6,2011 WORKPLAN APPROVED BY NYSDEC

●SL18 - ACTUAL SAMPLE LOCATIONS BASED ON FIELD CONDITIONS APPROVED BY THE NYSDEC ON JUNE 30,2011.

SCALE

0 60 120 180 240

1 INCH = 120 FEET

Revisions/Issues			
No	Date	By	Description

Posillico Consulting
1750 New Highway
Farmingdale, NY 11735
(631) 249-1872

Posillico | We know how.™

FIGURE 3: Proposed and Actual Soil Sampling Locations

FORMER CIBRO PETROLEUM FACILITY, ISLAND PARK, NEW YORK

DWN. BY: JB	CHK'D BY: EK	DATE: 11-15-11


Harrison
Lincoln
Madison
Jefferson
Washington
Suffolk
Island
Island Park
Sheridan
Radcliffe
Julian

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

August 7, 2012

Mr. James Harrington
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233

Re: Significant Threat Determination
Former Cibro Terminal
Site #C130153
Island Park (V), Nassau County

Dear Mr. Harrington:

Staff reviewed the *December 2011 Supplemental Remedial Investigation Report* for the above referenced site. Based on that review, I understand environmental investigation results indicated limited impacts to groundwater and soils. Groundwater is not used, or expected to be used in the future, as a potable water source as public water is available in the area, therefore exposure to contaminated groundwater is not likely. Exposure to contaminated sediments is unlikely due to limited detections of site-related contaminants and their location in a tidally-influenced wetland area. Stockpiles of excavated and treated soil remain on the site, but are covered with tarps and are located within a lined, bermed area. A fence limits site access. Sampling indicates that soil vapor intrusion is not a concern for off-site buildings. Since the site is vacant and not occupied, soil vapor intrusion is not a concern at this time.

Based on this information, I believe that the Former Cibro Terminal site does not represent a significant threat to public health.

Sincerely,

Charlotte M. Bethoney

Charlotte M. Bethoney
Acting Section Chief, Southern Section
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D
K. Anders, Ph.D
F. Navratil/S. McLelland/File
B. Devine - MDO
J. DeFranco - NCDH
W. Parish/N. Acampora- NYSDEC, Region 1

TABLE RWP-14
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID		MW-1	MW-2	MW-3R	MW-12	MW-13	MW-14	MW-15D	MW-15S	MW-16D	MW-16S	MW-17D
Sampling Date		8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	ND	ND	0.79 J	ND	ND	ND	1.49	83.2	1.44 J	ND	43.8
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	19.2	ND	ND	8.14
1,2,4,5-Tetramethylbenzene	5	ND	0.82 J	9.77	ND	ND	10.1	1.04	21.9	1.81 J	ND	10.9
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	1.06 J	ND	ND	ND	ND	8.36	ND	ND	15.4
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	10.5	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	7.1	ND	ND	7.52
Isopropylbenzene	5	ND	ND	4.02 J	ND	ND	ND	ND	8.44	ND	ND	4.44
m&p-Xylene	5*	ND	ND	ND	ND	ND	ND	ND	20.9	ND	ND	2.23
Napthlalene	10	ND	4.4 J	89.3	ND	ND	ND	ND	73.5	ND	ND	44
n-Butylbenzene	5	ND	ND	1.28 J	ND	ND	ND	ND	5.94	ND	ND	3.14
n-Propylbenzene	5	ND	ND	6.14	ND	ND	ND	ND	12.5	ND	ND	8.69
o-Xylene	5*	ND	ND	ND	ND	ND	ND	ND	15.5	ND	ND	ND
p-Diethylbenzene	NC	ND	ND	ND	ND	ND	ND	ND	22.7	ND	ND	11.2
p-Ethyltoluene	NC	ND	ND	ND	ND	ND	ND	ND	21.1	ND	ND	2.04
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	5.13	ND	ND	2.51
sec-Butylbenzene	5	ND	ND	2.36 J	ND	ND	2.19 J	ND	4.95 J	ND	ND	2.29
Toluene	5	ND	ND	ND	ND	ND	ND	ND	0.86 J	ND	ND	0.98
Total VOC TICs	NC	ND	21	385	ND	ND	173	ND	738	37	ND	350

Notes:
µg/L - micrograms per liter

* There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
MDL and the concentration is an approximate value.
ND - Not detected.
NC - No Criterion
Shading shows where C;ass GA Values groundwater standards were exceeded.

TABLE RWP-14
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID		GW-1	GW-2	LMW-2	LMW-4
Sampling Date		8/12/2011	8/12/2011	8/12/2011	8/17/2011
Matrix		Water	Water	Water	Water
Units		µg/L	µg/L	µg/L	µg/L
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values	Result	Result	Result	Result
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	5	1.5 J	ND	14.4	ND
Acetone	50	ND	ND	ND	83.3
Benzene	1	ND	ND	ND	ND
Carbon disulfide	60	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND
m&p-Xylene	5*	ND	ND	ND	ND
Napthlalene	10	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND
o-Xylene	5*	ND	ND	ND	ND
p-Diethylbenzene	NC	ND	ND	ND	ND
p-Ethyltoluene	NC	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND
Total VOC TICs	NC	ND	12	134	ND

Notes:
µg/L - micrograms per liter

* There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
MDL and the concentration is an approximate value.
ND - Not detected.
NC - No Criterion
Shading shows where C;ass GA Values groundwater standards were exceeded.

TABLE RWP-13
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID		MW-1	MW-2	MW-3R	MW-12	MW-13	MW-14	MW-15D	MW-15S	MW-16D	MW-16S	MW-17D
Sampling Date		8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011	8/12/2011
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SEMIVOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene	NC	ND	ND	28.6	ND	ND	11.9 J	25.8	18.4	ND	ND	ND
3 & 4 Methylphenol	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49 J	ND
Carbazole	NC	ND	ND	ND	ND	ND	ND	ND	3.09 J	ND	ND	ND
Cresols	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	1.23 J	1.99 J	ND	ND	ND
Naphthalene	10	ND	ND	23.2	ND	ND	ND	10.2	12.5	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND	ND	1.49 J	ND	ND	ND	ND
Phenol	1	ND	ND	8.61	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total SVOC TICs	NC	80	16	67	5	ND	68	157	158	37	25	4

Notes:
µg/L - micrograms per liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Not detected.
NC - No Criterion
Shading shows where Class GA Values groundwater standards were exceeded.

TABLE RWP-13
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID		GW-1	GW-2	LMW-2	LMW-4
Sampling Date		8/12/2011	8/12/2011	8/12/2011	8/17/2011
Matrix		Water	Water	Water	Water
Units		µg/L	µg/L	µg/L	µg/L
SEMIVOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values	Result	Result	Result	Result
2-Methylnaphthalene	NC	ND	ND	12.5	ND
3 & 4 Methylphenol	NC	ND	ND	ND	7.29
Acenaphthene	20	1.04	ND	2.34 J	ND
Carbazole	NC	ND	ND	ND	ND
Cresols	NC	ND	ND	ND	7.29 J
Fluorene	50	ND	ND	2.33 J	ND
Naphthalene	10	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND
Phenol	1	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	2.56	ND
Total SVOC TICs	NC	25	21	ND	181

Notes:
µg/L - micrograms per liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Not detected.
NC - No Criterion
Shading shows where Class GA Values groundwater standards were exceeded.

TABLE RWP-9
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-1B		SB-1C		SB-2B		SB-2C		SB-3B		SB-3C		SB-4B		SB-4C		SB-5B		SB-5C		SB-6B		SB-6C	
Depth				0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Soil	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Isophorone	NC	NC		<54.9	U	<58.8	U	<108	U	<52.2	U	<51.3	U	<53.8	U	<214	U	<224	U	<203	U	<214	U	<50.8	U	<215	U
N-Nitrosodi-n-propylamine	NC	NC		<36.3	U	<38.9	U	<71.6	U	<34.5	U	<33.9	U	<35.5	U	<141	U	<148	U	<134	U	<142	U	<33.6	U	<142	U
N-Nitrosodimethylamine	NC	NC		<76.2	U	<81.7	U	<150	U	<72.5	U	<71.3	U	<74.7	U	<297	U	<311	U	<282	U	<298	U	<70.6	U	<299	U
N-Nitrosodiphenylamine	NC	NC		<65.4	U	<70.1	U	<129	U	<62.2	U	<61.2	U	<64.1	U	<255	U	<267	U	<242	U	<256	U	<60.6	U	<256	U
Naphthalene	12,000	100,000		<48.3	U	<51.7	U	<95.3	U	<45.9	U	<45.1	U	<47.3	U	<188	U	<197	U	<178	U	<189	U	<44.7	U	<189	U
Nitrobenzene	NC	NC		<46.5	U	<49.8	U	<91.7	U	<44.2	U	<43.4	U	<45.5	U	<181	U	<190	U	<172	U	<181	U	<43.0	U	<182	U
Pentachlorophenol	800	6,700		<455	U	<488	U	<898	U	<433	U	<425	U	<446	U	<1770	U	<1860	U	<1680	U	<1780	U	<422	U	<1780	U
Phenanthrene	100,000	100,000		<54.6	U	<58.6	U	<108	U	<51.9	U	<51.1	U	<53.5	U	<213	U	<223	U	<202	U	<213	U	<50.6	U	<214	U
Phenol	330	100,000		<31.3	U	<33.6	U	<61.8	U	<29.8	U	<29.3	U	<30.7	U	<122	U	<128	U	<116	U	<122	U	<29.0	U	<123	U
Pyrene	100,000	100,000		<44.4	U	<47.6	U	347	B	<42.2	U	164	B	366	B	225		<181	U	<164	U	464	B	329	J	175	J
Pyridine	NC	NC		<68.8	U	<73.7	U	<136	U	<65.4	U	<64.3	U	<67.4	U	<268	U	<281	U	<254	U	<269	U	<63.7	U	<270	U
Total SVOC TICs	NC	NC	100,000	NR		NR		NR		NR		NR		NR		NR		NR		4,870		95,820		194,740		147,200	

Notes:
µg/kg - micrograms per kilogram
B - Analyte found in the method blank as well as the sample indicating possible cross contamination;
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
U - Indicates the analyte was analyzed for but not detected
NR - No result
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
** There is no SCO for 3+4-methylphenol. The Unrestricted Use SCOs for 3-methylphenol and 4-methylphenol are 330 µg/kg. The Restricted-Residential Use SCOs are 100,000 µg/kg.

TABLE RWP-9
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-7A		SB-8A		SB-8B		SB-8C		SB-8D		SB-9A		SB-9B		SB-9C		SB-9D		SB-10B		SB-10C		SB-11A	
Depth				0-0.5		0-0.5		0.5-3		3-7		7+		0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
1,2,4-Trichlorobenzene	NC	NC		<202	U	<176	U	<91.7	U	<49.3	U	<50.7	U	NR		<185	U	<53.5	U	<51.9	U	<179	U	<51.6	U	<206	U
1,2-Dichlorobenzene	NC	NC		<150	U	<130	U	<68.1	U	<36.7	U	<37.7	U	NR		<138	U	<39.8	U	<38.5	U	<133	U	<38.3	U	<153	U
1,2-Diphenylhydrazine	NC	NC		<147	U	<127	U	<66.6	U	<35.8	U	<36.8	U	NR		<135	U	<38.9	U	<37.7	U	<130	U	<37.5	U	<150	U
1,3-Dichlorobenzene	NC	NC		<163	U	<142	U	<74.1	U	<39.9	U	<41.0	U	NR		<150	U	<43.2	U	<41.9	U	<145	U	<41.7	U	<167	U
1,4-Dichlorobenzene	NC	NC		<158	U	<138	U	<71.9	U	<38.7	U	<39.8	U	NR		<145	U	<42.0	U	<40.6	U	<140	U	<40.4	U	<162	U
2,3,4,6-Tetrachlorophenol	NC	NC		<192	U	<167	U	<87.3	U	<47.0	U	<48.3	U	NR		<176	U	<51.0	U	<49.4	U	<171	U	<49.1	U	<197	U
2,4,5-Trichlorophenol	NC	NC		<105	U	<91.6	U	<47.9	U	<25.7	U	<26.5	U	NR		<96.7	U	<27.9	U	<27.1	U	<93.4	U	<26.9	U	<108	U
2,4,6-Trichlorophenol	NC	NC		<183	U	<159	U	<82.9	U	<44.6	U	<45.9	U	NR		<167	U	<48.4	U	<46.9	U	<162	U	<46.7	U	<187	U
2,4-Dichlorophenol	NC	NC		<159	U	<138	U	<72.3	U	<38.9	U	<40.0	U	NR		<146	U	<42.2	U	<40.9	U	<141	U	<40.7	U	<163	U
2,4-Dimethylphenol	NC	NC		<203	U	<176	U	<92.2	U	<49.6	U	<51.0	U	NR		<186	U	<53.8	U	<52.1	U	<180	U	<51.9	U	<207	U
2,4-Dinitrophenol	NC	NC		<1710	U	<1490	U	<776	U	<418	U	<429	U	NR		<1570	U	<453	U	<439	U	<1520	U	<437	U	<1750	U
2,4-Dinitrotoluene	NC	NC		<292	U	<253	U	<132	U	<71.2	U	<73.2	U	NR		<267	U	<77.2	U	<74.8	U	<258	U	<74.4	U	<298	U
2,6-Dinitrotoluene	NC	NC		<200	U	<174	U	<90.8	U	<48.9	U	<50.2	U	NR		<184	U	<53.0	U	<51.4	U	<177	U	<51.1	U	<204	U
2-Chloronaphthalene	NC	NC		<234	U	<203	U	<106	U	<57.2	U	<58.8	U	NR		<215	U	<62.0	U	<60.1	U	<208	U	<59.8	U	<239	U
2-Chlorophenol	NC	NC		<234	U	<203	U	<106	U	<57.2	U	<58.8	U	NR		<215	U	<62.0	U	<60.1	U	<208	U	<59.8	U	<239	U
2-Methylnaphthalene	NC	NC		<193	U	<168	U	<87.5	U	<47.1	U	192	J	NR		1210	J	<51.1	U	<49.5	U	5300		311	J	<197	U
2-Methylphenol	330	100,000		<174	U	<151	U	<78.9	U	<42.5	U	<43.7	U	NR		<159	U	<46.1	U	<44.6	U	<154	U	<44.4	U	<178	U
2-Nitroaniline	NC	NC		<253	U	<220	U	<115	U	<61.8	U	<63.5	U	NR		<232	U	<67.1	U	<65.0	U	<224	U	<64.6	U	<259	U
2-Nitrophenol	NC	NC		<148	U	<128	U	<67.0	U	<36.1	U	<37.1	U	NR		<135	U	<39.1	U	<37.9	U	<131	U	<37.7	U	<151	U
3+4-Methylphenol	330**	330**		<150	U	<130	U	<68.1	U	<36.7	U	<37.7	U	NR		<138	U	<39.8	U	<38.5	U	<133	U	<38.3	U	<153	U
3,3'-Dichlorobenzidine	NC	NC		<234	U	<203	U	<106	U	<57.2	U	<58.8	U	NR		<215	U	<62.0	U	<60.1	U	<208	U	<59.8	U	<239	U
3-Nitroaniline	NC	NC		<83.6	U	<72.6	U	<37.9	U	<20.4	U	<21.0	U	NR		<76.6	U	<22.1	U	<21.4	U	<74.1	U	<21.3	U	<85.4	U
4,6-Dinitro-2-methylphenol	NC	NC		<2120	U	<1840	U	<964	U	<518	U	<533	U	NR		<1950	U	<562	U	<545	U	<1880	U	<542	U	<2170	U
4-Bromophenyl phenyl ether	NC	NC		<221	U	<192	U	<100	U	<53.9	U	<55.4	U	NR		<202	U	<58.4	U	<56.6	U	<195	U	<56.3	U	<225	U
4-Chloro-3-methylphenol	NC	NC		<181	U	<157	U	<82.2	U	<44.2	U	<45.5	U	NR		<166	U	<48.0	U	<46.5	U	<161	U	<46.3	U	<185	U
4-Chloroaniline	NC	NC		<185	U	<161	U	<84.0	U	<45.2	U	<46.5	U	NR		<170	U	<49.0	U	<47.5	U	<164	U	<47.3	U	<189	U
4-Chlorophenyl phenyl ether	NC	NC		<189	U	<164	U	<85.8	U	<46.1	U	<47.4	U	NR		<173	U	<50.1	U	<48.5	U	<167	U	<48.3	U	<193	U
4-Nitroaniline	NC	NC		<475	U	<413	U	<216	U	<116	U	<119	U	NR		<436	U	<126	U	<122	U	<421	U	<121	U	<485	U
4-Nitrophenol	NC	NC		<3240	U	<2810	U	<1470	U	<791	U	<813	U	NR		<2970	U	<858	U	<832	U	<2870	U	<828	U	<3310	U
Acenaphthene	20,000	100,000		<205	U	<178	U	<92.8	U	<49.9	U	<51.3	U	NR		<188	U	<54.2	U	<52.5	U	560	J	88.3	J	<209	U
Acenaphthylene	100,000	100,000		<167	U	<145	U	<75.9	U	<40.8	U	<42.0	U	NR		<153	U	<44.3	U	<42.9	U	<148	U	<42.7	U	<171	U
Aniline	NC	NC		<151	U	<131	U	<68.6	U	<36.9	U	<37.9	U	NR		<139	U	<40.0	U	<38.8	U	<134	U	<38.6	U	<154	U
Anthracene	100,000	100,000		<216	U	<188	U	<98.1	U	<52.8	U	<54.3	U	NR		<198	U	<57.3	U	<55.5	U	<192	U	<55.2	U	<221	U
Benzidine	NC	NC		<4270	U	<3700	U	<1940	U	<1040	U	<1070	U	NR		<3910	U	<1130	U	<1090	U	<3780	U	<1090	U	<4360	U
Benzo(a)anthracene	1,000	1,000		<206	U	<178	U	<93.3	U	<50.2	U	<51.6	U	NR		<188	U	<54.4	U	<52.7	U	<182	U	<52.5	U	<210	U
Benzo(a)pyrene	1,000	1,000		<253	U	<220	U	<115	U	<61.8	U	<63.5	U	NR		<232	U	<67.1	U	<65.0	U	<224	U	<64.6	U	<259	U
Benzo(b)fluoranthene	1,000	1,000		<202	U	<175	U	<91.5	U	<49.2	U	<50.6	U	NR		<185	U	<53.4	U	<51.7	U	<179	U	<51.5	U	<206	U
Benzo(g,h,i)perylene	100,000	100,000		<371	U	<322	U	<168	U	<90.6	U	<93.2	U	NR		<340	U	<98.3	U	<95.3	U	<329	U	<94.8	U	<379	U
Benzo(k)fluoranthene	800	3,900		<370	U	<321	U	<168	U	<90.3	U	<92.8	U	NR		<339	U	<97.9	U	<94.9	U	<328	U	<94.4	U	<378	U
Benzoic acid	NC	NC		<28500	U	<24700	U	<12900	U	<6950	U	<7150	U	NR		<26100	U	<7540	U	<7310	U	<25200	U	<7270	U	<29100	U
Benzyl alcohol	NC	NC		<287	U	<249	U	<130	U	<70.0	U	<72.0	U	NR		<263	U	<75.9	U	<73.6	U	<254	U	<73.2	U	<293	U
bis(2-Chloroethoxy)methane	NC	NC		<201	U	<175	U	<91.3	U	<49.1	U	<50.5	U	NR		<184	U	<53.3	U	<51.6	U	<178	U	<51.4	U	<205	U
bis(2-Chloroethyl)ether	NC	NC		<230	U	<200	U	<104	U	<56.1	U	<57.7	U	NR		<211	U	<60.9	U	<59.0	U	<204	U	<58.7	U	<235	U
bis(2-Chloroisopropyl)ether	NC	NC		<178	U	<155	U	<80.9	U	<43.5	U	<44.8	U	NR		<163	U	<47.2	U	<45.8	U	<158	U	<45.5	U	<182	U
bis(2-Ethylhexyl)phthalate	NC	NC		<318	U	<276	U	<144	U	<77.7	U	99.7	J	NR		<292	U	<84.3	U	<81.7	U	<282	U	<81.3	U	<325	U
Butyl benzyl phthalate	NC	NC		<257	U	<223	U	<116	U	<62.6	U	<64.4	U	NR		<235	U	<68.0	U	<65.8	U	<227	U	<65.5	U	<262	U
Carbazole	NC	NC		<280	U	<243	U	<127	U	<68.3	U	<70.2	U	NR		<257	U	<74.1	U	<71.8	U	<248	U	<71.5	U	<286	U
Chrysene	1,000	3,900		<257	U	<223	U	<117	U	<62.8	U	<64.5	U	NR		<236	U	<68.1	U	<66.0	U	<228	U	<65.6	U	<263	U
Cresols	NC	NC		<324	U	<281	U	<147	U	<79.2	U	<81.4	U	NR		<297	U	<85.9	U	<83.1	U	<287	U	<82.7	U	<331	U
Di-n-butyl phthalate	NC	NC		<274	U	<238	U	<124	U	<66.8	U	<68.7	U	NR		<251	U	<72.5	U	<70.2	U	<242	U	<69.9	U	<279	U
Di-n-octyl phthalate	NC	NC		<239	U	<208	U	<108	U	<58.4	U	<60.0	U	NR		<219	U	<63.3	U	<61.3	U	<212	U	<61.0	U	<244	U
Dibenz(a,h)anthracene	330	330		<271	U	<235	U	<123	U	<66.2	U	<68.0	U	NR		<249	U	<71.8	U	<69.6	U	<240	U	<69.2	U	<277	U
Dibenzofuran	7,000	59,000		<162	U	<141	U	<73.6	U	<39.6	U	<40.7	U	NR		<149	U	<43.0	U	<41.6	U	<144	U	<41.4	U	<166	U
Diethyl phthalate	NC	NC		<318	U	<276	U	<144	U	<77.6	U	<79.8	U	NR		<291	U	<84.2	U	<81.5	U	<282	U	<81.1	U	<325	U
Dimethyl phthalate	NC	NC		<235	U	<204	U	<107	U	<57.3	U	<58.9	U	NR		<215	U	<62.2	U	<60.2	U	<208	U	<59.9	U	<240	U
Fluoranthene	100,000	100,000		<268	U	<232	U	<121	U	<65.4	U	<67.2	U	NR		<245	U	<70.9	U	<68.7	U	<237	U	<68.4	U	<273	U
Fluorene	30,000	100,000		<195	U	<170	U	<88.6	U	<47.7	U	<49.0	U	NR		<179	U	<51.7	U	<50.1	U	<173	U	109	J	<200	U
Hexachlorobenzene	330	1,200		<208	U	<181	U	<94.4	U	<50.8	U	<52.2	U	NR		<191	U	<55.1	U	<53.4	U	<184	U	<53.1	U	<212	U
Hexachlorobutadiene	NC	NC		<194	U	<169	U	<88.2	U	<47.4	U	<48.8	U	NR		<178	U	<51.5	U	<49.9	U	<172	U	<49.6	U	<199	U
Hexachlorocyclopentadiene	NC	NC		<1500	U	<1300	U	<681	U	<367	U	<377	U	NR		<1380	U	<398	U	<385	U	<1330	U	<383	U	<1530	U
Hexachloroethane	NC	NC		<216	U	<188	U	<98.1	U	<52.8	U	<54.3	U	NR		<198	U	<57.3	U	<55.5	U	<192	U	<55.2	U	<221	U
Indeno(1,2,3-cd)pyrene	500	500		<225	U	<195	U	<102	U	<54.8	U	<56.3	U	NR		<206	U	<59.5	U	<57.6	U	<199	U	<57.3	U	<229	U

TABLE RWP-9
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-7A		SB-8A		SB-8B		SB-8C		SB-8D		SB-9A		SB-9B		SB-9C		SB-9D		SB-10B		SB-10C		SB-11A	
Depth				0-0.5		0-0.5		0.5-3		3-7		7+		0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Isophorone	NC	NC		<222	U	<193	U	<101	U	<54.2	U	<55.7	U	NR		<204	U	<58.8	U	<57.0	U	<197	U	<56.7	U	<227	U
N-Nitrosodi-n-propylamine	NC	NC		<147	U	<127	U	<66.6	U	<35.8	U	<36.8	U	NR		<135	U	<38.9	U	<37.7	U	<130	U	<37.5	U	<150	U
N-Nitrosodimethylamine	NC	NC		<309	U	<268	U	<140	U	<75.3	U	<77.4	U	NR		<283	U	<81.7	U	<79.2	U	<273	U	<78.8	U	<315	U
N-Nitrosodiphenylamine	NC	NC		<265	U	<230	U	<120	U	<64.7	U	<66.5	U	NR		<243	U	<70.1	U	<68.0	U	<235	U	<67.6	U	<270	U
Naphthalene	12,000	100,000		<195	U	<170	U	<88.6	U	<47.7	U	<49.0	U	NR		<179	U	<51.7	U	<50.1	U	2480		155		<200	U
Nitrobenzene	NC	NC		<188	U	<163	U	<85.3	U	<45.9	U	<47.2	U	NR		<172	U	<49.8	U	<48.3	U	<167	U	<48.0	U	<192	U
Pentachlorophenol	800	6,700		<1840	U	<1600	U	<836	U	<450	U	<462	U	NR		<1690	U	<488	U	<473	U	<1630	U	<470	U	<1880	U
Phenanthrene	100,000	100,000		<221	U	<192	U	<100	U	<54.0	U	88.6	J	NR		1070	J	<58.6	U	<56.7	U	2110	J	211	J	<226	U
Phenol	330	100,000		<127	U	<110	U	<57.6	U	<31.0	U	<31.8	U	NR		<116	U	<33.6	U	<32.5	U	<112	U	<32.4	U	<130	U
Pyrene	100,000	100,000		<180	U	<156	U	<81.6	U	<43.9	U	<45.1	U	NR		<165	U	<47.6	U	<46.1	U	<159	U	<45.9	U	<184	U
Pyridine	NC	NC		<278	U	<242	U	<126	U	<68.0	U	<69.9	U	NR		<255	U	<73.7	U	<71.4	U	<247	U	<71.1	U	<284	U
Total SVOC TICs	NC	NC	100,000	NR		NR		25,607		744		NR		NR		191,450		17,725		NR		207,240		19,832		NR	

Notes:
µg/kg - micrograms per kilogram
B - Analyte found in the method blank as well as the sample indicating possible cross contamination;
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
U - Indicates the analyte was analyzed for but not detected
NR - No result
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
** There is no SCO for 3+4-methylphenol. The Unrestricted Use SCOs for 3-methylphenol and 4-methylphenol are 330 µg/kg. The Restricted-Residential Use SCOs are 100,000 µg/kg.

TABLE RWP-9
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-12A		SB-12B		SB-12C		SB-12D		SB-13B		SB-13C		SB-14A		SB-14B		SB-14C		SB-15A		SB-15B		SB-15C		SB-16A	
Depth				0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5		0.5-3		3-7		0-0.5		0.5-3		3-7		0-0.5	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107318		1107318		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
1,2,4-Trichlorobenzene	NC	NC		NR		<188	U	<46.1	U	<203	U	<227	U	<48.2	U	NR		<45.8	U	<48.7	U	NR		<181	U	<49.5	U	<125	U
1,2-Dichlorobenzene	NC	NC		NR		<139	U	<34.3	U	<151	U	<168	U	<35.8	U	NR		<34.0	U	<36.2	U	NR		<134	U	<36.7	U	<93.1	U
1,2-Diphenylhydrazine	NC	NC		NR		<136	U	<33.5	U	<147	U	<164	U	<35.0	U	NR		<33.2	U	<35.4	U	NR		<131	U	<35.9	U	<91.0	U
1,3-Dichlorobenzene	NC	NC		NR		<152	U	<37.3	U	<164	U	<183	U	<38.9	U	NR		<37.0	U	<39.3	U	NR		<146	U	<40.0	U	<101	U
1,4-Dichlorobenzene	NC	NC		NR		<147	U	<36.1	U	<159	U	<178	U	<37.8	U	NR		<35.9	U	<38.2	U	NR		<142	U	<38.8	U	<98.2	U
2,3,4,6-Tetrachlorophenol	NC	NC		NR		<179	U	<43.9	U	<193	U	<216	U	<45.9	U	NR		<43.6	U	<46.4	U	NR		<172	U	<47.1	U	<119	U
2,4,5-Trichlorophenol	NC	NC		NR		<97.9	U	<24.1	U	<106	U	<118	U	<25.1	U	NR		<23.9	U	<25.4	U	NR		<94.5	U	<25.8	U	<65.4	U
2,4,6-Trichlorophenol	NC	NC		NR		<170	U	<41.7	U	<184	U	<205	U	<43.6	U	NR		<41.4	U	<44.0	U	NR		<164	U	<44.7	U	<113	U
2,4-Dichlorophenol	NC	NC		NR		<148	U	<36.4	U	<160	U	<179	U	<38.0	U	NR		<36.1	U	<38.4	U	NR		<143	U	<39.0	U	<98.8	U
2,4-Dimethylphenol	NC	NC		NR		<189	U	<46.3	U	<204	U	<228	U	<48.4	U	NR		<46.0	U	<48.9	U	NR		<182	U	<49.7	U	<126	U
2,4-Dinitrophenol	NC	NC		NR		<1590	U	<390	U	<1720	U	<1920	U	<408	U	NR		<387	U	<412	U	NR		<1530	U	<419	U	<1060	U
2,4-Dinitrotoluene	NC	NC		NR		<271	U	<66.5	U	<293	U	<327	U	<69.5	U	NR		<66.0	U	<70.3	U	NR		<261	U	<71.3	U	<181	U
2,6-Dinitrotoluene	NC	NC		NR		<186	U	<45.7	U	<201	U	<224	U	<47.7	U	NR		<45.3	U	<48.2	U	NR		<179	U	<49.0	U	<124	U
2-Chloronaphthalene	NC	NC		NR		<217	U	<53.4	U	<235	U	<263	U	<55.9	U	NR		<53.0	U	<56.4	U	NR		<210	U	<57.3	U	<145	U
2-Chlorophenol	NC	NC		NR		<217	U	<53.4	U	<235	U	<263	U	<55.9	U	NR		<53.0	U	<56.4	U	NR		<210	U	<57.3	U	<145	U
2-Methylnaphthalene	NC	NC		NR		917	J	50300		21300		19000		<46.0	U	NR		566		86700		NR		53200		108	J	424	J
2-Methylphenol	330	100,000		NR		<161	U	<39.7	U	<175	U	<195	U	<41.5	U	NR		<39.4	U	<41.9	U	NR		<156	U	<42.6	U	<108	U
2-Nitroaniline	NC	NC		NR		<235	U	<57.8	U	<254	U	<284	U	<60.4	U	NR		<57.3	U	<61.0	U	NR		<227	U	<62.0	U	<157	U
2-Nitrophenol	NC	NC		NR		<137	U	<33.7	U	<148	U	<166	U	<35.2	U	NR		<33.4	U	<35.6	U	NR		<132	U	<36.1	U	<91.6	U
3+4-Methylphenol	330**	330**		NR		<139	U	<34.3	U	<151	U	<168	U	<35.8	U	NR		<34.0	U	<36.2	U	NR		<134	U	<36.7	U	<93.1	U
3,3-Dichlorobenzidine	NC	NC		NR		<217	U	<53.4	U	<235	U	<263	U	<55.9	U	NR		<53.0	U	<56.4	U	NR		<210	U	<57.3	U	<145	U
3-Nitroaniline	NC	NC		NR		<77.6	U	<19.1	U	<84.0	U	<93.7	U	<19.9	U	NR		<18.9	U	<20.1	U	NR		<74.9	U	<20.5	U	<51.8	U
4,6-Dinitro-2-methylphenol	NC	NC		NR		<1970	U	<484	U	<2130	U	<2380	U	<506	U	NR		<481	U	<512	U	NR		<1900	U	<520	U	<1320	U
4-Bromophenyl phenyl ether	NC	NC		NR		<205	U	<50.3	U	<222	U	<247	U	<52.6	U	NR		<49.9	U	123		NR		<198	U	<54.0	U	<137	U
4-Chloro-3-methylphenol	NC	NC		NR		<168	U	<41.4	U	<182	U	<203	U	<43.2	U	NR		<41.0	U	<43.7	U	NR		<162	U	<44.4	U	<112	U
4-Chloroaniline	NC	NC		NR		<172	U	<42.2	U	<186	U	<208	U	<44.1	U	NR		<41.9	U	<44.6	U	NR		<166	U	<45.3	U	<115	U
4-Chlorophenyl phenyl ether	NC	NC		NR		<175	U	<43.1	U	<190	U	<212	U	<45.1	U	NR		<42.8	U	<45.6	U	NR		<169	U	<46.3	U	<117	U
4-Nitroaniline	NC	NC		NR		<441	U	<108	U	<478	U	<533	U	<113	U	NR		<108	U	<115	U	NR		<426	U	<116	U	<295	U
4-Nitrophenol	NC	NC		NR		<3010	U	<739	U	<3260	U	<3630	U	<773	U	NR		<734	U	<781	U	NR		<2900	U	<793	U	<2010	U
Acenaphthene	20,000	100,000		NR		1280	J	1870		1320	J	1110	J	<48.8	U	NR		<46.3	U	4200	U	NR		4110		<50.1	U	<127	U
Acenaphthylene	100,000	100,000		NR		<155	U	<38.1	U	<168	U	<187	U	<39.9	U	NR		<37.8	U	<40.3	U	NR		<150	U	<40.9	U	<104	U
Aniline	NC	NC		NR		<140	U	<34.5	U	<152	U	<169	U	<36.0	U	NR		<34.2	U	<36.4	U	NR		<135	U	<37.0	U	<93.7	U
Anthracene	100,000	100,000		NR		<201	U	<49.3	U	<217	U	<242	U	<51.6	U	NR		<49.0	U	<52.1	U	NR		<194	U	<52.9	U	<134	U
Benzidine	NC	NC		NR		<3960	U	<973	U	<4290	U	<4780	U	<1020	U	NR		<966	U	<1030	U	NR		<3820	U	<1040	U	<2640	U
Benzo(a)anthracene	1,000	1,000		NR		<191	U	<46.9	U	<207	U	<230	U	<49.0	U	NR		<46.5	U	71.8		NR		<184	U	<50.3	U	<127	U
Benzo(a)pyrene	1,000	1,000		NR		<235	U	<57.8	U	<254	U	<284	U	<60.4	U	NR		<57.3	U	<61.0	U	NR		<227	U	<62.0	U	<157	U
Benzo(b)fluoranthene	1,000	1,000		NR		<187	U	<46.0	U	<203	U	<226	U	<48.1	U	NR		<45.7	U	<48.6	U	NR		<181	U	<49.3	U	<125	U
Benzo(g,h,i)perylene	100,000	100,000		NR		<345	U	<84.7	U	<373	U	<416	U	<88.5	U	NR		<84.0	U	<89.5	U	NR		<333	U	<90.8	U	<230	U
Benzo(k)fluoranthene	800	3,900		NR		<343	U	<84.4	U	<372	U	<414	U	<88.2	U	NR		<83.7	U	<89.1	U	NR		<331	U	<90.5	U	<229	U
Benzoic acid	NC	NC		NR		<26400	U	<6500	U	<28600	U	<31900	U	<6790	U	NR		<6450	U	<6860	U	NR		<25500	U	<6970	U	<17700	U
Benzyl alcohol	NC	NC		NR		<266	U	<65.4	U	<288	U	<321	U	<68.4	U	NR		<64.9	U	<69.1	U	NR		<257	U	<70.2	U	<178	U
bis(2-Chloroethoxy)methane	NC	NC		NR		<187	U	<45.9	U	<202	U	<225	U	<48.0	U	NR		<45.5	U	<48.5	U	NR		<180	U	<49.2	U	<125	U
bis(2-Chloroethyl)ether	NC	NC		NR		<213	U	<52.4	U	<231	U	<258	U	<54.8	U	NR		<52.0	U	<55.4	U	NR		<206	U	<56.2	U	<142	U
bis(2-Chloroisopropyl)ether	NC	NC		NR		<166	U	<40.7	U	<179	U	<200	U	<42.5	U	NR		<40.4	U	<43.0	U	NR		<160	U	<43.6	U	<111	U
bis(2-Ethylhexyl)phthalate	NC	NC		NR		<295	U	<72.6	U	400	J	2020	J	<75.9	U	NR		430	J	199	J	NR		361		105	J	<197	U
Butyl benzyl phthalate	NC	NC		NR		<238	U	<58.5	U	<258	U	<288	U	<61.2	U	NR		<58.1	U	<61.8	U	NR		<230	U	<62.8	U	<159	U
Carbazole	NC	NC		NR		<260	U	<63.9	U	<281	U	<314	U	<66.7	U	NR		<63.4	U	<67.4	U	NR		<251	U	<68.5	U	<173	U
Chrysene	1,000	3,900		NR		<239	U	<58.6	U	<258	U	<288	U	<61.3	U	NR		<58.2	U	118		NR		<230	U	<62.9	U	<159	U
Cresols	NC	NC		NR		<300	U	<74.0	U	<326	U	<363	U	<77.3	U	NR		<73.4	U	<78.1	U	NR		<290	U	<79.3	U	<201	U
Di-n-butyl phthalate	NC	NC		NR		<254	U	<62.4	U	<275	U	<307	U	<65.2	U	NR		<61.9	U	<65.9	U	NR		<245	U	<66.9	U	<170	U
Di-n-octyl phthalate	NC	NC		NR		<222	U	<54.5	U	<240	U	<268	U	<57.0	U	NR		<54.1	U	<57.6	U	NR		<214	U	<58.5	U	<148	U
Dibenz(a,h)anthracene	330	330		NR		<252	U	<61.9	U	<273	U	<304	U	<64.7	U	NR		<61.4	U	<65.3	U	NR		<243	U	<66.3	U	<168	U
Dibenzofuran	7,000	59,000		NR		<151	U	<37.0	U	<163	U	<182	U	<38.7	U	NR		<36.7	U	<39.1	U	NR		<145	U	<39.7	U	<101	U
Diethyl phthalate	NC	NC		NR		<295	U	<72.5	U	<319	U	<356	U	<75.8	U	NR		<71.9	U	<76.6	U	NR		<285	U	<77.8	U	<197	U
Dimethyl phthalate	NC	NC		NR		<218	U	<53.5	U	<236	U	<263	U	<56.0	U	NR		<53.1	U	<56.6	U	NR		<210	U	<57.4	U	<145	U
Fluoranthene	100,000	100,000		NR		743	J	186	J	554	J	<300	U	<63.8	U	NR		<60.6	U	955	U	NR		590	J	<65.5	U	<166	U
Fluorene	30,000	100,000		NR		1860	J	3440		<196	U	2380	J	<46.6	U	NR		<44.2	U	3120		NR		7260		54.5	J	<121	U
Hexachlorobenzene	330	1,200		NR		<193	U	<47.5	U	<209	U	<233	U	<49.6	U	NR		<47.1	U	<50.1	U	NR		<186	U	<50.9	U	<129	U
Hexachlorobutadiene	NC	NC		NR		<180	U	<44.3	U	<195	U	<218	U	<46.3	U	NR		<44.0	U	<46.8	U	NR		<174	U	<47.6	U	<120	U
Hexachlorocyclopentadiene	NC	NC		NR		<1390	U	<343	U	<1510	U	<1680	U	<358	U	NR		<340	U	<362	U	NR		<1340	U	<367	U	<931	U
Hexachloroethane	NC	NC		NR		<201	U	<49.3	U	<217	U	<242	U	<51.6	U	NR		<49.0	U	<52.1	U	NR		<194	U	<52.9	U	<134	U
Indeno(1,2,3-cd)pyrene	500	500		NR		<208	U	<51.2	U	<226	U	<252	U	<53.5	U	NR		<50.8	U	<54.1	U	NR		<201	U	<54.9	U	<139	U

TABLE RWP-10
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-1B		SB-1C		SB-2B		SB-2C		SB-3B		SB-3C		SB-4B		SB-4C		SB-5B		SB-5C		SB-6B		SB-6C	
Depth				0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7		0.5-3		3-7	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Soil	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
p-Ethyltoluene	NC	NC		<0.84	U	<0.90	U	<0.83	U	<0.80	U	<0.78	U	<0.82	U	<0.82	U	<0.86	U	<0.77	U	<119	U	<0.77	U	<0.82	U
sec-Butylbenzene	11,000	100,000		<0.76	U	<0.81	U	<0.75	U	<0.72	U	<0.71	U	<0.74	U	<0.74	U	<0.77	U	<0.70	U	<115	U	<0.70	U	<0.74	U
Styrene	NC	NC		<0.49	U	<0.52	U	<0.48	U	<0.46	U	<0.46	U	<0.48	U	<0.47	U	<0.50	U	<0.45	U	<119	U	<0.45	U	<0.48	U
t-1,2-Dichloroethene	190	100,000		<0.92	U	<0.99	U	<0.91	U	<0.87	U	<0.86	U	<0.90	U	<0.89	U	<0.94	U	<0.85	U	<140	U	<0.85	U	<0.90	U
t-1,3-Dichloropropene	NC	NC		<0.89	U	<0.96	U	<0.88	U	<0.85	U	<0.83	U	<0.87	U	<0.87	U	<0.91	U	<0.82	U	<116	U	<0.82	U	<0.87	U
tert- Amyl methyl EtherTAME	NC	NC		<0.65	U	<0.70	U	<0.64	U	<0.62	U	<0.61	U	<0.64	U	<0.63	U	<0.66	U	<0.60	U	<126	U	<0.60	U	<0.64	U
tert-Butylbenzene	5,900	100,000		<0.70	U	<0.75	U	<0.69	U	<0.67	U	<0.66	U	<0.69	U	<0.68	U	<0.72	U	<0.65	U	<125	U	<0.65	U	<0.69	U
Tertiary butyl alcohol	NC	NC		<19.7	U	<21.1	U	<19.4	U	<18.7	U	<18.4	U	<19.3	U	<19.1	U	<20.1	U	<18.2	U	<1190	U	<18.2	U	<19.3	U
Tetrachloroethene (PCE)	1,300	19,000		<0.78	U	<0.84	U	<0.77	U	<0.75	U	<0.73	U	<0.77	U	<0.76	U	<0.80	U	<0.73	U	<123	U	<0.73	U	<0.77	U
Toluene	700	100,000		<0.89	U	<0.96	U	<0.88	U	<0.85	U	<0.83	U	<0.87	U	<0.87	U	<0.91	U	<0.82	U	<159	U	<0.82	U	<0.87	U
Trichloroethene (TCE)	470	21,000		<0.81	U	<0.87	U	<0.80	U	<0.77	U	<0.76	U	<0.80	U	<0.79	U	<0.83	U	<0.75	U	<138	U	<0.75	U	<0.80	U
Trichlorofluoromethane	NC	NC		<0.78	U	<0.84	U	<0.77	U	<0.75	U	<0.73	U	<0.77	U	<0.76	U	<0.80	U	<0.73	U	<147	U	<0.73	U	<0.77	U
Vinyl Chloride	20	900		<0.65	U	<0.70	U	<0.64	U	<0.62	U	<0.61	U	<0.64	U	<0.63	U	<0.66	U	<0.60	U	<121	U	<0.60	U	<0.64	U
Total VOC TICs	NC	NC	10,000	101		0		376		217		285		359		0		94		57		57,310		749		46	

Notes:
µg/kg - micrograms per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
U - Indicates the analyte was analyzed for but not detected
NR - No Result
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
** There is no SCO for m/p xylene or o-xylene. The Unrestricted Use SCO for total xylenes is 260 µg/kg. The Restricted-Residential Use SCO for total xylenes is 100,000 µg/kg.

TABLE RWP-10
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-7A		SB-8A		SB-8B		SB-8C		SB-8D		SB-9A		SB-9B		SB-9C		SB-9D		SB-10B		SB-10C		SB-11A	
Depth				0-0.5		0-0.5		0.5-3		3-7		7+		0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
1,1,1-Trichloroethane (TCA)	680	100,000		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	<128	U	<0.84	U	<0.84	U
1,1,1,2-Tetrachloroethane	NC	NC		<0.68	U	<0.59	U	<0.62	U	<0.67	U	<0.69	U	NR		<0.63	U	<0.73	U	<0.70	U	<116	U	<0.70	U	<0.70	U
1,1,2,2-Tetrachloroethane	NC	NC		<1.06	U	<0.92	U	<0.97	U	<1.04	U	<1.07	U	NR		<0.98	U	<1.13	U	<1.10	U	<101	U	<1.09	U	<1.09	U
1,1,2-Trichloroethane	NC	NC		<1.01	U	<0.88	U	<0.92	U	<0.99	U	<1.01	U	NR		<0.93	U	<1.07	U	<1.04	U	<122	U	<1.03	U	<1.03	U
1,1,2-Trichlorotrifluoroethane (Freon 113)	NC	NC		<0.68	U	<0.59	U	<0.62	U	<0.67	U	<0.69	U	NR		<0.63	U	<0.73	U	<0.70	U	<119	U	<0.70	U	<0.70	U
1,1-Dichloroethane	270	26,000		<0.60	U	<0.52	U	<0.55	U	<0.59	U	<0.60	U	NR		<0.55	U	<0.64	U	<0.62	U	<136	U	<0.61	U	<0.61	U
1,1-Dichloroethene	330	100,000		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<126	U	<0.81	U	<0.81	U
1,1-Dichloropropene	NC	NC		<1.31	U	<1.14	U	<1.19	U	<1.28	U	<1.32	U	NR		<1.20	U	<1.39	U	<1.35	U	<108	U	<1.34	U	<1.34	U
1,2,3-Trichlorobenzene	NC	NC		<0.96	U	<0.83	U	<0.87	U	<0.93	U	<0.96	U	NR		<0.88	U	<1.01	U	<0.98	U	<83.7	U	<0.98	U	<0.98	U
1,2,3-Trichloropropane	NC	NC		<1.69	U	<1.47	U	<1.54	U	<1.66	U	<1.70	U	NR		<1.56	U	<1.80	U	<1.74	U	<105	U	<1.73	U	<1.73	U
1,2,4,5-Tetramethylbenzene (Durene)	NC	NC		<0.98	U	<0.85	U	9.5	J	12	J	5.91	J	NR		5.29	J	3.91		4.92		3,620		8.79	J	<1.00	U
1,2,4-Trichlorobenzene	NC	NC		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	<90.4	U	<0.84	U	<0.84	U
1,2,4-Trimethylbenzene	3,600	52,000		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	8,540		<0.84	U	<0.84	U
1,2-Dibromo-3-chloropropane	NC	NC		<2.21	U	<1.92	U	<2.01	U	<2.16	U	<2.22	U	NR		<2.03	U	<2.35	U	<2.28	U	<101	U	<2.26	U	<2.26	U
1,2-Dibromoethane	NC	NC		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<105	U	<0.81	U	<0.81	U
1,2-Dichlorobenzene	1,100	100,000		<0.87	U	<0.76	U	<0.79	U	<0.85	U	<0.88	U	NR		<0.80	U	<0.93	U	<0.90	U	<108	U	<0.89	U	<0.89	U
1,2-Dichloroethane	20	3,100		<0.96	U	<0.83	U	<0.87	U	<0.93	U	<0.96	U	NR		<0.88	U	<1.01	U	<0.98	U	<131	U	<0.98	U	<0.98	U
1,2-Dichloropropane	NC	NC		<1.04	U	<0.90	U	<0.94	U	<1.01	U	<1.04	U	NR		<0.95	U	<1.10	U	<1.07	U	<120	U	<1.06	U	<1.06	U
1,3,5-Trimethylbenzene	8,400	52,000		<0.93	U	<0.81	U	<0.84	U	<0.91	U	<0.93	U	NR		<0.85	U	<0.99	U	<0.96	U	3540		<0.95	U	<0.95	U
1,3-Dichlorobenzene	2,400	49,000		<0.74	U	<0.64	U	<0.67	U	<0.72	U	<0.74	U	NR		<0.68	U	<0.78	U	<0.76	U	<104	U	<0.75	U	<0.75	U
1,3-Dichloropropane	NC	NC		<0.57	U	<0.50	U	<0.52	U	<0.56	U	<0.58	U	NR		<0.53	U	<0.61	U	<0.59	U	<112	U	<0.59	U	<0.59	U
1,4-Dichlorobenzene	1,800	13,000		<0.57	U	<0.50	U	<0.52	U	<0.56	U	<0.58	U	NR		<0.53	U	<0.61	U	<0.59	U	<105	U	<0.59	U	<0.59	U
2,2-Dichloropropane	NC	NC		<1.01	U	<0.88	U	<0.92	U	<0.99	U	<1.01	U	NR		<0.93	U	<1.07	U	<1.04	U	<117	U	<1.03	U	<1.03	U
2-Butanone (MEK)	120	100,000		<5.73	U	<4.98	U	<5.21	U	<5.61	U	<5.75	U	NR		<5.27	U	<6.09	U	<5.90	U	<103	U	<5.86	U	<5.86	U
2-Chloroethylvinylether	NC	NC		<4.45	U	<3.86	U	<4.04	U	<4.35	U	<4.47	U	NR		<4.09	U	<4.73	U	<4.58	U	<192	U	<4.55	U	<4.55	U
2-Chlorotoluene	NC	NC		<0.74	U	<0.64	U	<0.67	U	<0.72	U	<0.74	U	NR		<0.68	U	<0.78	U	<0.76	U	<112	U	<0.75	U	<0.75	U
2-Hexanone	NC	NC		<2.40	U	<2.09	U	<2.18	U	<2.35	U	<2.41	U	NR		<2.21	U	<2.55	U	<2.47	U	<82.3	U	<2.46	U	<2.46	U
4-Chlorotoluene	NC	NC		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	<105	U	<0.84	U	<0.84	U
4-Isopropyltoluene	NC	NC		<0.63	U	<0.55	U	<0.57	U	<0.61	U	<0.63	U	NR		<0.58	U	<0.67	U	<0.65	U	2560		<0.64	U	<0.64	U
4-Methyl-2-pentanone	NC	NC		<3.63	U	<3.15	U	<3.30	U	<3.55	U	<3.64	U	NR		<3.34	U	<3.86	U	<3.74	U	<116	U	<3.71	U	<3.71	U
Acetone	50	100,000		<6.72	U	<5.83	U	<6.10	U	<6.57	U	<6.74	U	NR		<6.17	U	<7.13	U	<6.91	U	<157	U	<6.86	U	<6.86	U
Acrylonitrile	NC	NC		<16.8	U	<14.6	U	<15.3	U	<16.4	U	<16.9	U	NR		<15.4	U	<17.8	U	<17.3	U	<510	U	<17.2	U	<17.2	U
Benzene	60	4,800		<0.85	U	<0.73	U	<0.77	U	<0.83	U	<0.85	U	NR		<0.78	U	<0.90	U	<0.87	U	<119	U	<0.86	U	<0.86	U
Bromobenzene	NC	NC		<0.85	U	<0.73	U	<0.77	U	<0.83	U	<0.85	U	NR		<0.78	U	<0.90	U	<0.87	U	<108	U	<0.86	U	<0.86	U
Bromochloromethane	NC	NC		<1.12	U	<0.97	U	<1.02	U	<1.09	U	<1.12	U	NR		<1.03	U	<1.19	U	<1.15	U	<123	U	<1.14	U	<1.14	U
Bromodichloromethane	NC	NC		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	<120	U	<0.84	U	<0.84	U
Bromoform	NC	NC		<0.90	U	<0.78	U	<0.82	U	<0.88	U	<0.90	U	NR		<0.83	U	<0.96	U	<0.93	U	<109	U	<0.92	U	<0.92	U
Bromomethane	NC	NC		<1.34	U	<1.16	U	<1.22	U	<1.31	U	<1.34	U	NR		<1.23	U	<1.42	U	<1.38	U	<138	U	<1.37	U	<1.37	U
Carbon disulfide	NC	NC		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<111	U	<0.81	U	<0.81	U
Carbon Tetrachloride	760	2,400		<1.04	U	<0.90	U	<0.94	U	<1.01	U	<1.04	U	NR		<0.95	U	<1.10	U	<1.07	U	<122	U	<1.06	U	<1.06	U
Chlorobenzene	1,100	100,000		<0.71	U	<0.62	U	<0.64	U	<0.69	U	<0.71	U	NR		<0.65	U	<0.75	U	<0.73	U	<116	U	<0.73	U	<0.73	U
Chlorodifluoromethane (Freon 22)	NC	NC		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<126	U	<0.81	U	<0.81	U
Chloroethane	NC	NC		<1.17	U	<1.02	U	<1.07	U	<1.15	U	<1.18	U	NR		<1.08	U	<1.25	U	<1.21	U	<194	U	<1.20	U	<1.20	U
Chloroform	370	49,000		<0.66	U	<0.57	U	<0.60	U	<0.64	U	<0.66	U	NR		<0.60	U	<0.70	U	<0.67	U	<131	U	<0.67	U	<0.67	U
Chloromethane	NC	NC		<1.06	U	<0.92	U	<0.97	U	<1.04	U	<1.07	U	NR		<0.98	U	<1.13	U	<1.10	U	<107	U	<1.09	U	<1.09	U
c-1,2-Dichloroethene	250	100,000		<1.06	U	<0.92	U	<0.97	U	<1.04	U	<1.07	U	NR		<0.98	U	<1.13	U	<1.10	U	<120	U	<1.09	U	<1.09	U
c-1,3-Dichloropropene	NC	NC		<0.85	U	<0.73	U	<0.77	U	<0.83	U	<0.85	U	NR		<0.78	U	<0.90	U	<0.87	U	<117	U	<0.86	U	<0.86	U
Dibromochloromethane	NC	NC		<0.55	U	<0.47	U	<0.50	U	<0.53	U	<0.55	U	NR		<0.50	U	<0.58	U	<0.56	U	<112	U	<0.56	U	<0.56	U
Dibromomethane	NC	NC		<0.71	U	<0.62	U	<0.64	U	<0.69	U	<0.71	U	NR		<0.65	U	<0.75	U	<0.73	U	<123	U	<0.73	U	<0.73	U
Dichlorodifluoromethane	NC	NC		<1.06	U	<0.92	U	<0.97	U	<1.04	U	<1.07	U	NR		<0.98	U	<1.13	U	<1.10	U	<108	U	<1.09	U	<1.09	U
Ethylbenzene	1,000	41,000		<1.06	U	<0.92	U	<0.97	U	<1.04	U	<1.07	U	NR		<0.98	U	<1.13	U	<1.10	U	311		<1.09	U	<1.09	U
Hexachlorobutadiene	NC	NC		<0.93	U	<0.81	U	<0.84	U	<0.91	U	<0.93	U	NR		<0.85	U	<0.99	U	<0.96	U	<107	U	<0.95	U	<0.95	U
Isopropylbenzene	NC	NC		<0.68	U	<0.59	U	<0.62	U	<0.67	U	<0.69	U	NR		<0.63	U	<0.73	U	<0.70	U	445	J	<0.70	U	<0.70	U
m,p-xylene	NC**	NC**		<1.72	U	<1.49	U	<1.56	U	<1.68	U	<1.73	U	NR		<1.58	U	<1.83	U	<1.77	U	338		<1.76	U	<1.76	U
Methyl t-butyl ether (MTBE)	930	100,000		<0.85	U	<0.73	U	<0.77	U	<0.83	U	<0.85	U	NR		<0.78	U	<0.90	U	<0.87	U	<119	U	<0.86	U	<0.86	U
Methylene Chloride	50	100,000		<0.55	U	<0.47	U	<0.50	U	<0.53	U	<0.55	U	NR		<0.50	U	<0.58	U	<0.56	U	<146	U	<0.56	U	<0.56	U
Naphthalene	NC	NC		<1.45	U	<1.26	U	<1.31	U	<1.42	U	<1.45	U	NR		<1.33	U	<1.54	U	<1.49	U	5210		<1.48	U	<1.48	U
n-Butylbenzene	12,000	100,000		<0.74	U	<0.64	U	<0.67	U	<0.72	U	<0.74	U	NR		<0.68	U	<0.78	U	<0.76	U	<112	U	<0.75	U	<0.75	U
n-Propylbenzene	3,900	100,000		<0.96	U	<0.83	U	<0.87	U	<0.93	U	<0.96	U	NR		<0.88	U	<1.01	U	<0.98	U	1040		<0.98	U	<0.98	U
o-xylene	NC**	NC**		<0.93	U	<0.81	U	<0.84	U	<0.91	U	<0.93	U	NR		<0.85	U	<0.99	U	<0.96	U	698		<0.95	U	<0.95	U
p-Diethylbenzene	NC	NC		<0.74	U	<0.64	U	<0.67	U	<0.72	U	<0.74	U	NR		<0.68	U	<0.78	U	<0.76	U	12600		<0.75	U	<0.75	U

TABLE RWP-10
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-7A		SB-8A		SB-8B		SB-8C		SB-8D		SB-9A		SB-9B		SB-9C		SB-9D		SB-10B		SB-10C		SB-11A	
Depth				0-0.5		0-0.5		0.5-3		3-7		7+		0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
p-Ethyltoluene	NC	NC		<0.85	U	<0.73	U	<0.77	U	<0.83	U	<0.85	U	NR		<0.78	U	<0.90	U	<0.87	U	1770		<0.86	U	<0.86	U
sec-Butylbenzene	11,000	100,000		<0.76	U	<0.66	U	<0.69	U	<0.75	U	<0.77	U	NR		<0.70	U	<0.81	U	<0.79	U	1440		<0.78	U	<0.78	U
Styrene	NC	NC		<0.49	U	<0.43	U	<0.45	U	<0.48	U	<0.49	U	NR		<0.45	U	<0.52	U	<0.51	U	<109	U	<0.50	U	<0.50	U
t-1,2-Dichloroethene	190	100,000		<0.93	U	<0.81	U	<0.84	U	<0.91	U	<0.93	U	NR		<0.85	U	<0.99	U	<0.96	U	<128	U	<0.95	U	<0.95	U
t-1,3-Dichloropropene	NC	NC		<0.90	U	<0.78	U	<0.82	U	<0.88	U	<0.90	U	NR		<0.83	U	<0.96	U	<0.93	U	<107	U	<0.92	U	<0.92	U
tert- Amyl methyl EtherTAME	NC	NC		<0.66	U	<0.57	U	<0.60	U	<0.64	U	<0.66	U	NR		<0.60	U	<0.70	U	<0.67	U	<116	U	<0.67	U	<0.67	U
tert-Butylbenzene	5,900	100,000		<0.71	U	<0.62	U	<0.64	U	<0.69	U	<0.71	U	NR		<0.65	U	<0.75	U	<0.73	U	<115	U	<0.73	U	<0.73	U
Tertiary butyl alcohol	NC	NC		<19.9	U	<17.3	U	<18.1	U	<19.4	U	<19.9	U	NR		<18.3	U	<21.1	U	<20.5	U	<1090	U	<20.3	U	<20.3	U
Tetrachloroethene (PCE)	1,300	19,000		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<113	U	<0.81	U	<0.81	U
Toluene	700	100,000		<0.90	U	<0.78	U	<0.82	U	<0.88	U	<0.90	U	NR		<0.83	U	<0.96	U	<0.93	U	<146	U	<0.92	U	<0.92	U
Trichloroethene (TCE)	470	21,000		<0.82	U	<0.71	U	<0.74	U	<0.80	U	<0.82	U	NR		<0.75	U	<0.87	U	<0.84	U	<127	U	<0.84	U	<0.84	U
Trichlorofluoromethane	NC	NC		<0.79	U	<0.69	U	<0.72	U	<0.77	U	<0.79	U	NR		<0.73	U	<0.84	U	<0.81	U	<135	U	<0.81	U	<0.81	U
Vinyl Chloride	20	900		<0.66	U	<0.57	U	<0.60	U	<0.64	U	<0.66	U	NR		<0.60	U	<0.70	U	<0.67	U	<111	U	<0.67	U	<0.67	U
Total VOC TICs	NC	NC	10,000	0		0		68		0		0		NR		167		0		14		107,590		0		0	

Notes:
µg/kg - micrograms per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
U - Indicates the analyte was analyzed for but not detected
NR - No Result
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
** There is no SCO for m/p xylene or o-xylene. The Unrestricted Use SCO for total xylenes is 260 µg/kg. The Restricted-Residential Use SCO for total xylenes is 100,000 µg/kg.

TABLE RWP-10
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS
JULY/AUGUST 2011
FORMER CIBRO PETROLEUM TERMINAL SITE
BROWNFIELD CLEANUP SITE C130153
ISLAND PARK, NASSAU COUNTY, NEW YORK

Sample ID				SB-12A		SB-12B		SB-12C		SB-12D		SB-13B		SB-13C		SB-14A		SB-14B		SB-14C		SB-15A		SB-15B		SB-15C	
Depth				0-0.5		0.5-3		3-7		7+		0.5-3		3-7		0-0.5		0.5-3		3-7		0-0.5		0.5-3		3-7	
Lab Sample ID				1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107290		1107318		1107318	
Sampling Date				7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011		7/21/2011	
Matrix				Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Units				µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO	Restricted-Residential Use SCO	Proposed Site-Specific SCO	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
1,1,1-Trichloroethane (TCA)	680	100,000		NR		<134	U	<132	U	<290	U	<129	U	<138	U	NR		<131	U	<0.79	U	NR		<129	U	<142	U
1,1,1,2-Tetrachloroethane	NC	NC		NR		<121	U	<120	U	<262	U	<117	U	<125	U	NR		<119	U	<0.66	U	NR		<117	U	<128	U
1,1,2,2-Tetrachloroethane	NC	NC		NR		<106	U	<104	U	<229	U	<102	U	<109	U	NR		<104	U	<1.03	U	NR		<102	U	<112	U
1,1,2-Trichloroethane	NC	NC		NR		<127	U	<125	U	<274	U	<122	U	<130	U	NR		<124	U	<0.97	U	NR		<122	U	<134	U
1,1,2-Trichlorotrifluoroethane (Freon 113)	NC	NC		NR		<124	U	<122	U	<268	U	<120	U	<128	U	NR		<121	U	<0.66	U	NR		<120	U	<131	U
1,1-Dichloroethane	270	26,000		NR		<142	U	<140	U	<308	U	<137	U	<146	U	NR		<139	U	<0.58	U	NR		<137	U	<150	U
1,1-Dichloroethene	330	100,000		NR		<131	U	<129	U	<284	U	<126	U	<135	U	NR		<128	U	<0.76	U	NR		<126	U	<139	U
1,1-Dichloropropene	NC	NC		NR		<113	U	<111	U	<244	U	<109	U	<116	U	NR		<110	U	<1.26	U	NR		<109	U	<119	U
1,2,3-Trichlorobenzene	NC	NC		NR		<87.4	U	<86.2	U	<189	U	<84.3	U	<89.9	U	NR		<85.6	U	<0.92	U	NR		<84.3	U	<92.4	U
1,2,3-Trichloropropane	NC	NC		NR		<110	U	<108	U	<238	U	<106	U	<113	U	NR		<108	U	<1.63	U	NR		<106	U	<116	U
1,2,4,5-Tetramethylbenzene (Durene)	NC	NC		NR		4,630		5,350		12,700		3,770		8,680		NR		6,200		8.87	J	NR		16,600		8,350	
1,2,4-Trichlorobenzene	NC	NC		NR		<94.5	U	<93.1	U	<204	U	<91.1	U	<97.2	U	NR		<92.5	U	<0.79	U	NR		<91.1	U	<99.8	U
1,2,4-Trimethylbenzene	3,600	52,000		NR		<118	U	<117	U	<256	U	<114	U	601		NR		1400		<0.79	U	NR		3030		<125	U
1,2-Dibromo-3-chloropropane	NC	NC		NR		<106	U	<104	U	<229	U	<102	U	<109	U	NR		<104	U	<2.13	U	NR		<102	U	<112	U
1,2-Dibromoethane	NC	NC		NR		<110	U	<108	U	<238	U	<106	U	<113	U	NR		<108	U	<0.76	U	NR		<106	U	<116	U
1,2-Dichlorobenzene	1,100	100,000		NR		<113	U	<111	U	<244	U	<109	U	<116	U	NR		<110	U	<0.84	U	NR		<109	U	<119	U
1,2-Dichloroethane	20	3,100		NR		<137	U	<135	U	<296	U	<132	U	<141	U	NR		<134	U	<0.92	U	NR		<132	U	<145	U
1,2-Dichloropropane	NC	NC		NR		<125	U	<124	U	<271	U	<121	U	<129	U	NR		<123	U	<1.00	U	NR		<121	U	<133	U
1,3,5-Trimethylbenzene	8,400	52,000		NR		<116	U	<114	U	<250	U	<112	U	207		NR		146		<0.89	U	NR		2630		<122	U
1,3-Dichlorobenzene	2,400	49,000		NR		<109	U	<107	U	<235	U	<105	U	<112	U	NR		<106	U	<0.71	U	NR		<105	U	<115	U
1,3-Dichloropropane	NC	NC		NR		<117	U	<115	U	<253	U	<113	U	<120	U	NR		<115	U	<0.55	U	NR		<113	U	<124	U
1,4-Dichlorobenzene	1,800	13,000		NR		<110	U	<108	U	<238	U	<106	U	<113	U	NR		<108	U	<0.55	U	NR		<106	U	<116	U
2,2-Dichloropropane	NC	NC		NR		<123	U	<121	U	<265	U	<118	U	<126	U	NR		<120	U	<0.97	U	NR		<118	U	<130	U
2-Butanone (MEK)	120	100,000		NR		<107	U	<106	U	<232	U	<103	U	<110	U	NR		<105	U	<5.52	U	NR		<103	U	<113	U
2-Chloroethylvinylether	NC	NC		NR		<200	U	<197	U	<433	U	<193	U	<206	U	NR		<196	U	<4.29	U	NR		<193	U	<212	U
2-Chlorotoluene	NC	NC		NR		<117	U	<115	U	<253	U	<113	U	<120	U	NR		<115	U	<0.71	U	NR		<113	U	<124	U
2-Hexanone	NC	NC		NR		<86.0	U	<84.8	U	<186	U	<83.0	U	<88.4	U	NR		<84.2	U	<2.31	U	NR		<83.0	U	<90.9	U
4-Chlorotoluene	NC	NC		NR		<110	U	<108	U	<238	U	<106	U	<113	U	NR		<108	U	<0.79	U	NR		<106	U	<116	U
4-Isopropyltoluene	NC	NC		NR		<114	U	<113	U	<247	U	<110	U	<117	U	NR		1110		<0.60	U	NR		5010		282	J
4-Methyl-2-pentanone	NC	NC		NR		<121	U	<120	U	<262	U	<117	U	<125	U	NR		<119	U	<3.50	U	NR		<117	U	<128	U
Acetone	50	100,000		NR		<164	U	<161	U	<354	U	<158	U	<168	U	NR		<160	U	<6.47	U	NR		<158	U	<173	U
Acrylonitrile	NC	NC		NR		<533	U	<525	U	<1150	U	<514	U	<548	U	NR		<522	U	<16.2	U	NR		<514	U	<563	U
Benzene	60	4,800		NR		<124	U	<122	U	<268	U	<120	U	<128	U	NR		<121	U	<0.82	U	NR		<120	U	<131	U
Bromobenzene	NC	NC		NR		<113	U	<111	U	<244	U	<109	U	<116	U	NR		<110	U	<0.82	U	NR		<109	U	<119	U
Bromochloromethane	NC	NC		NR		<128	U	<126	U	<278	U	<124	U	<132	U	NR		<126	U	<1.08	U	NR		<124	U	<136	U
Bromodichloromethane	NC	NC		NR		<125	U	<124	U	<271	U	<121	U	<129	U	NR		<123	U	<0.79	U	NR		<121	U	<133	U
Bromoform	NC	NC		NR		<114	U	<113	U	<247	U	<110	U	<117	U	NR		<112	U	<0.87	U	NR		<110	U	<121	U
Bromomethane	NC	NC		NR		<144	U	<142	U	<311	U	<139	U	<148	U	NR		<141	U	<1.29	U	NR		<139	U	<152	U
Carbon disulfide	NC	NC		NR		<116	U	<114	U	<250	U	<112	U	<119	U	NR		<113	U	<0.76	U	NR		<112	U	<122	U
Carbon Tetrachloride	760	2,400		NR		<127	U	<125	U	<274	U	<122	U	<130	U	NR		<124	U	<1.00	U	NR		<122	U	<134	U
Chlorobenzene	1,100	100,000		NR		<121	U	<120	U	<262	U	<117	U	<125	U	NR		<119	U	<0.68	U	NR		<117	U	<128	U
Chlorodifluoromethane (Freon 22)	NC	NC		NR		<131	U	<129	U	<284	U	<126	U	<135	U	NR		<128	U	<0.76	U	NR		<126	U	<139	U
Chloroethane	NC	NC		NR		<203	U	<200	U	<439	U	<196	U	<209	U	NR		<199	U	<1.13	U	NR		<196	U	<215	U
Chloroform	370	49,000		NR		<137	U	<135	U	<296	U	<132	U	<141	U	NR		<134	U	<0.63	U	NR		<132	U	<145	U
Chloromethane	NC	NC		NR		<111	U	<110	U	<241	U	<107	U	<115	U	NR		<109	U	<1.03	U	NR		<107	U	<118	U
c-1,2-Dichloroethene	250	100,000		NR		<125	U	<124	U	<271	U	<121	U	<129	U	NR		<123	U	<1.03	U	NR		<121	U	<133	U
c-1,3-Dichloropropene	NC	NC		NR		<123	U	<121	U	<265	U	<118	U	<126	U	NR		<120	U	<0.82	U	NR		<118	U	<130	U
Dibromochloromethane	NC	NC		NR		<117	U	<115	U	<253	U	<113	U	<120	U	NR		<115	U	<0.53	U	NR		<113	U	<124	U
Dibromomethane	NC	NC		NR		<128	U	<126	U	<278	U	<124	U	<132	U	NR		<126	U	<0.68	U	NR		<124	U	<136	U
Dichlorodifluoromethane	NC	NC		NR		<113	U	<111	U	<244	U	<109	U	<116	U	NR		<110	U	<1.03	U	NR		<109	U	<119	U
Ethylbenzene	1,000	41,000		NR		<125	U	<124	U	<271	U	<121	U	<129	U	NR		<123	U	<1.03	U	NR		150	J	<133	U
Hexachlorobutadiene	NC	NC		NR		<111	U	<110	U	<241	U	<107	U	<115	U	NR		<109	U	<0.89	U	NR		<107	U	<118	U
Isopropylbenzene	NC	NC		NR		589	J	811		1780		338	J	1190		NR		199	J	<0.66	U	NR		1010		307	J
m,p-xylene	NC**	NC**		NR		<245	U	<242	U	<531	U	<237	U	<252	U	NR		<240	U	<1.66	U	NR		261	J	<259	U
Methyl t-butyl ether (MTBE)	930	100,000		NR		<124	U	<122	U	<268	U	<120	U	<128	U	NR		<121	U	<0.82	U	NR		<120	U	<131	U
Methylene Chloride	50	100,000		NR		<152	U	<150	U	<329	U	<147	U	<157	U	NR		<149	U	<0.53	U	NR		<147	U	<161	U
Naphthalene	NC	NC		NR		<86.0	U	<84.8	U	<186	U	<83.0	U	<88.4	U	NR		<84.2	U	<1.39	U	NR		6140		1580	
n-Butylbenzene	12,000	100,000		NR		2060		2350		5700		1790		4490		NR		1700		<0.71	U	NR		5720		2370	
n-Propylbenzene	3,900	100,000		NR		1370		1720		3820		801		2350		NR		634	J	<0.92	U	NR		2470		836	
o-xylene	NC**	NC**		NR		<120	U	<118	U	<259	U	<116	U	<123	U	NR		<117	U	<0.89	U	NR		<116	U	<127	U
p-Diethylbenzene	NC	NC		NR		1230		1460		3390		1190		3710		NR		2130		<0.71	U	NR		<105	U	2180	U