

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6
					Lab Sample ID	JA80082-3	JA80082-4	JA80082-1	JA80082-2
					Sampling Date	7/5/2011	7/5/2011	7/5/2011	7/5/2011
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	331	288	375	365	
Solids, Percent	NC	NC	NC	NC	73.5	45.8	67.1	87.9	
pH	NC	NC	NC	NC	6.58	7.56	6.49	7.64	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

SCO - Soil Cleanup Objective

NA - Not Analyzed

a - Analysis done out of holding time.

b - Fe2 was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

c - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

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					Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3/3RT	JA80291-4	JA80291-1	JA80291-2
					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	101000	a	NA	NA	NA
Iron, Ferrous	NC	NC	NC	NC	0.75	b	NA	NA	NA
Sulfide Screen	NC	NC	NC	NC	NEGATIVE	c	NA	NA	NA
Total Organic Carbon	NC	NC	NC	NC	32600	a	NA	NA	NA
Redox Potential Vs H2	NC	NC	NC	NC	390		281	303	298
Solids, Percent	NC	NC	NC	NC	71.1		88.9	65.4	59.6
pH	NC	NC	NC	NC	5.19		8.09	6.94	6.22

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					Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	310	311	238	166	
Solids, Percent	NC	NC	NC	NC	87.2	83.2	83.8	62.3	
pH	NC	NC	NC	NC	7.93	8.5	8.07	7.31	

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					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	641	531	692	653	
Solids, Percent	NC	NC	NC	NC	82.9	79.6	72	66.9	
pH	NC	NC	NC	NC	7.87	7.96	3.25	3.57	

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Sample ID					1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5
Lab Sample ID					JB1189-1	JB1189-2	JB1030-7	JB1030-8
Sampling Date					3/8/2012	3/8/2012	3/7/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA
Redox Potential Vs H2	NC	NC	NC	NC	249	318	555	242
Solids, Percent	NC	NC	NC	NC	70.4	86.3	73.2	70.4
pH	NC	NC	NC	NC	3.77	6.09	3.96	7.24

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Sample ID					1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
Lab Sample ID					JB1030-3	JB1030-4	JB1030-6	JB1030-5
Sampling Date					3/7/2012	3/7/2012	3/7/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA
Redox Potential Vs H2	NC	NC	NC	NC	387	478	377	376
Solids, Percent	NC	NC	NC	NC	73.9	81.6	81.6	63.9
pH	NC	NC	NC	NC	5.23	4.09	5.66	7.54

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					Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	295	298	420	222	
Solids, Percent	NC	NC	NC	NC	95.3	76.6	81.9	69.9	
pH	NC	NC	NC	NC	8.27	7.32	5.03	7.97	

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					Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	541	91.5	211	93.6	
Solids, Percent	NC	NC	NC	NC	68	60.8	91	69.9	
pH	NC	NC	NC	NC	4.43	7.59	7.88	7.96	

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					Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7
					Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2
					Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2	NC	NC	NC	NC	353	102	306	104	
Solids, Percent	NC	NC	NC	NC	70.8	58.5	56.4	63.6	
pH	NC	NC	NC	NC	5.4	7.49	5.34	7.84	

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					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
Chemical Oxygen Demand	NC	NC	NC	NC	NA	NA	NA
Iron, Ferrous	NC	NC	NC	NC	NA	NA	NA
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA
Total Organic Carbon	NC	NC	NC	NC	NA	NA	NA
Redox Potential Vs H2	NC	NC	NC	NC	241		45.1
Solids, Percent	NC	NC	NC	NC	57.6		58
pH	NC	NC	NC	NC	6.03		8.13

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SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6
					Lab Sample ID	JA80082-3/3R	JA80082-4/4R	JA80082-1/1R	JA80082-2/2R
					Sampling Date	7/5/2011	7/5/2011	7/5/2011	7/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	9330	18200	15300	5900	
Antimony	NC	NC	12	NC	<2.6	<4.4	<2.9	<2.3	
Arsenic	13	16	13	16	9.9	17	54	5.4	
Barium	350	10,000	433	820	123	202	204	50.9	
Beryllium	7.2	2,700	10	47	1.1	1.3	0.81	0.63	
Cadmium	2.5	60	4	7.5	0.67	<1.1	1.2	1.8	
Calcium	NC	NC	10000	NC	2690	4730	2840	2400	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	25.3	42.8	99.1	16.7	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.54(<0.54)	<0.87(<0.87)	1.7(2.1)	<0.46(<0.46)	
Cobalt	NC	NC	20	NC	9.4	13.7	9.1	8	
Copper	50	10,000	50	1,720	59.7	57.9	138	8.7	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	20100	34500	35200	21200	
Lead	63	3,900	63	450	37.7	69.6	157	8.9	
Magnesium	NC	NC	NC	NC	3780	7020	5010	3840	
Manganese	1,600	10,000	1600	2,000	680	616	373	424	
Mercury (Total)	0.18	5.7	0.18	0.73	0.2	0.59	1.6	<0.037	
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA	
Nickel	30	10,000	30	130	21.9	29.6	26.5	16.9	
Potassium	NC	NC	NC	NC	1930	4170	3100	1790	
Selenium	3.9	6,800	3.9	4	<2.6	<4.4	4.1	<2.3	
Silver	2	6,800	2	8.3	<0.65	<1.1	1.6	<0.58	
Sodium	NC	NC	NC	NC	<1300	2230	<1400	<1200	
Thallium	NC	NC	5	NC	<1.3	<2.2	<1.4	<1.2	
Vanadium	NC	NC	39	NC	33.6	53.2	49	21.3	
Zinc	109	10,000	109	2,480	77.8	123	137	90	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3/3R	JA80291-4/4R	JA80291-1/1R	JA80291-2/2R
					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	15400	4530	21100	10900	
Antimony	NC	NC	12	NC	<2.8	<2.2	<3.1	<3.4	
Arsenic	13	16	13	16	50.2	4	101	14	
Barium	350	10,000	433	820	256	36.5	354	178	
Beryllium	7.2	2,700	10	47	0.63	0.49	0.87	1	
Cadmium	2.5	60	4	7.5	<0.70	<0.55	1.6	<0.84	
Calcium	NC	NC	10000	NC	2160	2330	3650	5590	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	78.4	11.4	162	32.7	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	1.5(2.5)	<0.45(<0.45)	1.6(9.9)	0.78(<0.67)	
Cobalt	NC	NC	20	NC	7.1	6.7	11.1	12.8	
Copper	50	10,000	50	1,720	142	7.9	210	57.7	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	34100	12100	43100	23500	
Lead	63	3,900	63	450	120	5.3	267	50.4	
Magnesium	NC	NC	NC	NC	4630	2820	6510	4710	
Manganese	1,600	10,000	1600	2,000	287	263	478	490	
Mercury (Total)	0.18	5.7	0.18	0.73	1.8	<0.033	5.9	0.12	
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA	
Nickel	30	10,000	30	130	23.4	11.2	34.6	23.6	
Potassium	NC	NC	NC	NC	3470	1160	4080	2800	
Selenium	3.9	6,800	3.9	4	3.6	<2.2	6.2	<3.4	
Silver	2	6,800	2	8.3	1.1	<0.55	2.7	<0.84	
Sodium	NC	NC	NC	NC	<1400	<1100	<1600	<1700	
Thallium	NC	NC	5	NC	<1.4	<1.1	<1.6	<1.7	
Vanadium	NC	NC	39	NC	82.6	13.3	71.1	37.4	
Zinc	109	10,000	109	2,480	69.3	24.4	149	96.7	

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					Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1/1R	JA80169-2/2R	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	8660	7020	7830	10400	
Antimony	NC	NC	12	NC	<2.2	<2.5	<2.3	<3.1	
Arsenic	13	16	13	16	9.8	6.8	5	51.7	
Barium	350	10,000	433	820	117	139	87.4	252	
Beryllium	7.2	2,700	10	47	0.79	0.81	0.6	0.68	
Cadmium	2.5	60	4	7.5	<0.56	<0.63	<0.57	2	
Calcium	NC	NC	10000	NC	3730	5330	25900	9670	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	27.6	21.6	17.7	64.4	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46(<0.46)	<0.48(<0.48)	<0.48	<0.64	
Cobalt	NC	NC	20	NC	11.1	9.9	8.3	8.7	
Copper	50	10,000	50	1,720	25.5	8.7	13.3	161	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	24500	21600	17700	27200	
Lead	63	3,900	63	450	21.5	11.3	16.7	175	
Magnesium	NC	NC	NC	NC	5890	5060	5280	4630	
Manganese	1,600	10,000	1600	2,000	294	431	582	421	
Mercury (Total)	0.18	5.7	0.18	0.73	0.16	<0.037	0.1	11.9	
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA	
Nickel	30	10,000	30	130	26.3	21.4	21.1	30.5	
Potassium	NC	NC	NC	NC	2230	2270	2410	2360	
Selenium	3.9	6,800	3.9	4	<2.2	<2.5	<2.3	<3.1	
Silver	2	6,800	2	8.3	<0.56	<0.63	<0.57	0.79	
Sodium	NC	NC	NC	NC	<1100	<1300	<1100	<1600	
Thallium	NC	NC	5	NC	<1.1	<1.3	<1.1	<1.6	
Vanadium	NC	NC	39	NC	27.7	22.7	20	33.7	
Zinc	109	10,000	109	2,480	64.7	47.4	46.3	250	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	6730	3730	13200	15200	
Antimony	NC	NC	12	NC	<2.3	<2.3	<2.9	<3.1	
Arsenic	13	16	13	16	15.8	12.7	71	64.3	
Barium	350	10,000	433	820	51.1	117	119	326	
Beryllium	7.2	2,700	10	47	0.72	0.35	0.4	0.7	
Cadmium	2.5	60	4	7.5	<0.56	<0.59	<0.72	<0.76	
Calcium	NC	NC	10000	NC	6490	3450	<720	5290	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	23.8	18.4	71.9	107	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.48	<0.50	<0.56	<0.60	
Cobalt	NC	NC	20	NC	6.5	<5.9	<7.2	<7.6	
Copper	50	10,000	50	1,720	37.1	38.8	100	164	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	41100	12500	34500	30300	
Lead	63	3,900	63	450	41.7	43.1	138	200	
Magnesium	NC	NC	NC	NC	2260	2060	3450	4480	
Manganese	1,600	10,000	1600	2,000	337	221	119	151	
Mercury (Total)	0.18	5.7	0.18	0.73	0.78	0.22	1.4	2.6	
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA	
Nickel	30	10,000	30	130	19.4	12	14.6	20.8	
Potassium	NC	NC	NC	NC	1530	<1200	3350	3810	
Selenium	3.9	6,800	3.9	4	<2.3	<2.3	4.6	4.5	
Silver	2	6,800	2	8.3	<0.56	<0.59	0.92	1.3	
Sodium	NC	NC	NC	NC	<1100	<1200	<1400	<1500	
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.4	<1.5	
Vanadium	NC	NC	39	NC	34.1	14.4	55.2	52.2	
Zinc	109	10,000	109	2,480	83.9	66.7	58.3	77.9	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5			
					Lab Sample ID	JB1189-1	JB1189-2	JB1030-7	JB1030-8			
					Sampling Date	3/8/2012	3/8/2012	3/7/2012	3/7/2012			
					Matrix	Soil	Soil	Soil	Soil			
					Units	mg/kg	mg/kg	mg/kg	mg/kg			
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	1R-22.1-ENV-10/2		1R-22.1-ENV-10/6		1R-22.1-ENV-11/2		1R-22.1-ENV-11/7.5	
					Result		Result		Result		Result	
Aluminum	NC	NC	10000	NC	15400		5030		10500		6730	
Antimony	NC	NC	12	NC	<2.7		<2.3		<2.7		<2.8	
Arsenic	13	16	13	16	74.6		10.4		33.3		21.7	
Barium	350	10,000	433	820	223		<23		144		146	
Beryllium	7.2	2,700	10	47	0.51		0.6		0.61		0.8	
Cadmium	2.5	60	4	7.5	<0.68		0.8		<0.68		2.2	
Calcium	NC	NC	10000	NC	778		<570		993		3570	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	108		17.3		56.7		32.5	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.61		<0.46		<0.55		<0.57	
Cobalt	NC	NC	20	NC	<6.8		5.8		<6.8		7.7	
Copper	50	10,000	50	1,720	109		30.5		82.9		121	
Cyanide (Total)	27	10,000	NC	40	NA		NA		NA		NA	
Iron	NC	NC	NC	NC	39300		17200		28200		17000	
Lead	63	3,900	63	450	219		19.1		103		79.6	
Magnesium	NC	NC	NC	NC	4400		1790		3590		2290	
Manganese	1,600	10,000	1600	2,000	159		126		250		232	
Mercury (Total)	0.18	5.7	0.18	0.73	2.7		0.12		1.6		0.31	
Molybdenum	NC	NC	2	NC	NA		NA		NA		NA	
Nickel	30	10,000	30	130	18.7		15.1		16.2		22.2	
Potassium	NC	NC	NC	NC	3280		<1100		2850		1480	
Selenium	3.9	6,800	3.9	4	5.5		<2.3		<2.7		<2.8	
Silver	2	6,800	2	8.3	1.1		<0.57		<0.68		<0.71	
Sodium	NC	NC	NC	NC	<1400		<1100		<1400		<1400	
Thallium	NC	NC	5	NC	<1.4		<1.1		<1.4		<1.4	
Vanadium	NC	NC	39	NC	55.8		17.1		41.8		18.8	
Zinc	109	10,000	109	2,480	71		117		54.6		143	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7	
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5	
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
					Result	Result	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	16100	3650	5150	6320		
Antimony	NC	NC	12	NC	<2.6	<2.5	<2.4	<3.2		
Arsenic	13	16	13	16	57.3	4.3	9.1	34.2		
Barium	350	10,000	433	820	296	<25	49.6	163		
Beryllium	7.2	2,700	10	47	0.73	0.28	0.28	0.65		
Cadmium	2.5	60	4	7.5	<0.65	<0.62	<0.61	1.1		
Calcium	NC	NC	10000	NC	2000	<620	1380	2380		
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	101	11.8	21.5	33.6		
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	6	<0.49	0.58	<0.63		
Cobalt	NC	NC	20	NC	<6.5	<6.2	<6.1	<8.1		
Copper	50	10,000	50	1,720	164	12.8	35.6	83		
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA		
Iron	NC	NC	NC	NC	33700	13000	17100	19100		
Lead	63	3,900	63	450	181	12.3	21.2	61.7		
Magnesium	NC	NC	NC	NC	4810	1040	1360	2390		
Manganese	1,600	10,000	1600	2,000	177	68.9	53.9	217		
Mercury (Total)	0.18	5.7	0.18	0.73	3	0.091	0.32	1.5		
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA		
Nickel	30	10,000	30	130	20.6	6.5	6.5	18.8		
Potassium	NC	NC	NC	NC	3790	<1200	1430	<1600		
Selenium	3.9	6,800	3.9	4	2.8	<2.5	<2.4	<3.2		
Silver	2	6,800	2	8.3	1.6	<0.62	<0.61	<0.81		
Sodium	NC	NC	NC	NC	<1300	<1200	<1200	<1600		
Thallium	NC	NC	5	NC	<1.3	<1.2	<1.2	<1.6		
Vanadium	NC	NC	39	NC	57.6	12.1	25.4	25.3		
Zinc	109	10,000	109	2,480	73.4	28.3	24.4	110		

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5	
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4	
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
Aluminum	NC	NC	10000	NC	3690	8410	8670	10300		
Antimony	NC	NC	12	NC	<2.1	<2.8	<2.6	<2.7		
Arsenic	13	16	13	16	8.7	34.4	42.1	20.6		
Barium	350	10,000	433	820	<21	271	110	175		
Beryllium	7.2	2,700	10	47	0.35	0.64	0.55	0.6		
Cadmium	2.5	60	4	7.5	0.6	2.7	<0.64	<0.68		
Calcium	NC	NC	10000	NC	748	2360	742	4660		
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12.9	92.9	41.1	31.8		
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.5	<0.52	1.5	<0.57		
Cobalt	NC	NC	20	NC	<5.2	7.1	<6.4	7.3		
Copper	50	10,000	50	1,720	13.1	205	96.6	71.8		
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA		
Iron	NC	NC	NC	NC	24900	18700	23800	22800		
Lead	63	3,900	63	450	11.6	167	110	80.9		
Magnesium	NC	NC	NC	NC	1330	2860	2720	5070		
Manganese	1,600	10,000	1600	2,000	287	214	158	402		
Mercury (Total)	0.18	5.7	0.18	0.73	0.087	0.47	0.92	4.1		
Molybdenum	NC	NC	2	NC	NA	NA	NA	NA		
Nickel	30	10,000	30	130	12.2	23.3	13.1	23.1		
Potassium	NC	NC	NC	NC	<1000	2160	1620	2260		
Selenium	3.9	6,800	3.9	4	<2.1	<2.8	3.7	<2.7		
Silver	2	6,800	2	8.3	<0.52	1.6	1.4	1.3		
Sodium	NC	NC	NC	NC	<1000	<1400	<1300	<1400		
Thallium	NC	NC	5	NC	<1.0	<1.4	<1.3	<1.4		
Vanadium	NC	NC	39	NC	15.8	27.7	28.5	24.8		
Zinc	109	10,000	109	2,480	59.1	220	64.9	110		

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	18100	16900	4200	12400	
Antimony	NC	NC	12	NC	3.1	4	<2.2	<2.6	
Arsenic	13	16	13	16	96.5	120	6.2	31.6	
Barium	350	10,000	433	820	448	137	23.9	147	
Beryllium	7.2	2,700	10	47	0.74	1.1	0.38	0.7	
Cadmium	2.5	60	4	7.5	0.74	1.3	<0.56	1.5	
Calcium	NC	NC	10000	NC	1400	3800	4780	3570	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	179	84.3	19.5	64.4	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	4.9	<0.66	0.57	<0.57	
Cobalt	NC	NC	20	NC	<6.9	9.6	<5.6	7.8	
Copper	50	10,000	50	1,720	236	302	16.2	119	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	34700	38700	17800	25000	
Lead	63	3,900	63	450	250	268	22.2	120	
Magnesium	NC	NC	NC	NC	5550	5990	1700	5020	
Manganese	1,600	10,000	1600	2,000	179	350	157	366	
Mercury (Total)	0.18	5.7	0.18	0.73	11.8	2.4	0.16	2.7	
Molybdenum	NC	NC	2	NC	NA	NA	<2.2	<2.6	
Nickel	30	10,000	30	130	24.2	39.2	10.9	24.7	
Potassium	NC	NC	NC	NC	3920	2970	<1100	2840	
Selenium	3.9	6,800	3.9	4	4.9	12.2	<2.2	<2.6	
Silver	2	6,800	2	8.3	3.6	2.9	<0.56	1.2	
Sodium	NC	NC	NC	NC	<1400	<1600	<1100	<1300	
Thallium	NC	NC	5	NC	<1.4	<1.6	<1.1	<1.3	
Vanadium	NC	NC	39	NC	49.3	55.6	18.3	30.6	
Zinc	109	10,000	109	2,480	107	313	41.6	178	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7	
					Lab Sample ID	JB17083-1		JB17339-1		
					Sampling Date	9/20/2012		9/25/2012		
					Matrix	Soil		Soil		
					Units	mg/kg		mg/kg		
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
Aluminum	NC	NC	10000	NC	14000	18400	17600	15500		
Antimony	NC	NC	12	NC	<2.9	<3.1	<3.4	<3.3		
Arsenic	13	16	13	16	51	111	110	94.5		
Barium	350	10,000	433	820	229	178	582	146		
Beryllium	7.2	2,700	10	47	0.41	0.77	1	0.9		
Cadmium	2.5	60	4	7.5	0.86	2	9.5	1.7		
Calcium	NC	NC	10000	NC	2030	3790	6300	3380		
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	91.9	89.1	298	79.9		
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	1.1	<0.68	<0.71	<0.63		
Cobalt	NC	NC	20	NC	<7.1	11.1	12.4	9		
Copper	50	10,000	50	1,720	130	280	557	255		
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA		
Iron	NC	NC	NC	NC	31600	38600	32600	32900		
Lead	63	3,900	63	450	198	250	453	217		
Magnesium	NC	NC	NC	NC	4520	6500	6470	5110		
Manganese	1,600	10,000	1600	2,000	214	372	438	293		
Mercury (Total)	0.18	5.7	0.18	0.73	2.9	3.3	11.9	2		
Molybdenum	NC	NC	2	NC	<2.9	<3.1	<3.4	<3.3		
Nickel	30	10,000	30	130	20.2	40.7	46.4	32.2		
Potassium	NC	NC	NC	NC	2760	3490	3830	3160		
Selenium	3.9	6,800	3.9	4	<2.9	8.4	4.8	8.2		
Silver	2	6,800	2	8.3	3.6	5.5	5.5	2.8		
Sodium	NC	NC	NC	NC	<1400	2600	<1700	1890		
Thallium	NC	NC	5	NC	<1.4	<1.6	<1.7	<1.6		
Vanadium	NC	NC	39	NC	41.9	58.7	46	50.1		
Zinc	109	10,000	109	2,480	92.1	315	580	268		

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
Aluminum	NC	NC	10000	NC	20700	15600	
Antimony	NC	NC	12	NC	6.2	<3.5	
Arsenic	13	16	13	16	249	92.7	
Barium	350	10,000	433	820	880	544	
Beryllium	7.2	2,700	10	47	1.4	0.92	
Cadmium	2.5	60	4	7.5	9	7.4	
Calcium	NC	NC	10000	NC	3880	8340	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	271	235	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.69	<0.69	
Cobalt	NC	NC	20	NC	15.7	10.2	
Copper	50	10,000	50	1,720	859	431	
Cyanide (Total)	27	10,000	NC	40	NA	NA	
Iron	NC	NC	NC	NC	36200	30000	
Lead	63	3,900	63	450	540	370	
Magnesium	NC	NC	NC	NC	5560	6810	
Manganese	1,600	10,000	1600	2,000	282	403	
Mercury (Total)	0.18	5.7	0.18	0.73	7.7	8	
Molybdenum	NC	NC	2	NC	<3.6	<3.5	
Nickel	30	10,000	30	130	66.6	42.6	
Potassium	NC	NC	NC	NC	3970	3620	
Selenium	3.9	6,800	3.9	4	10.6	4.2	
Silver	2	6,800	2	8.3	5.8	4.5	
Sodium	NC	NC	NC	NC	<1800	2120	
Thallium	NC	NC	5	NC	<1.8	<1.7	
Vanadium	NC	NC	39	NC	55.7	42.9	
Zinc	109	10,000	109	2,480	601	471	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

⁽²⁾ - Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

NC - No Criterion

NA - Not analyzed

<2.9 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6
					Lab Sample ID	JA80082-3	JA80082-4	JA80082-1	JA80082-2
					Sampling Date	7/5/2011	7/5/2011	3/3/1900	7/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.016)	ND (0.011)	ND (0.0085)	
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.038)	ND (0.026)	ND (0.020)	
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.032)	ND (0.022)	ND (0.017)	
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.020)	ND (0.014)	ND (0.010)	
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.019)	ND (0.013)	ND (0.0099)	
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.029)	ND (0.020)	ND (0.015)	
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.021)	ND (0.014)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.018)	ND (0.013)	ND (0.0096)	
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.020)	ND (0.014)	ND (0.010)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.011) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3	JA80291-4	JA80291-1	JA80291-2
					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.0086)	ND (0.012)	ND (0.013)	
Aroclor 1221	NC	NC	NC	NC	ND (0.025)	ND (0.020)	ND (0.027)	ND (0.030)	
Aroclor 1232	NC	NC	NC	NC	ND (0.021)	ND (0.017)	ND (0.023)	ND (0.025)	
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.014)	ND (0.016)	
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.014)	ND (0.015)	
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.015)	ND (0.021)	ND (0.023)	
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.015)	ND (0.016)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.0097)	ND (0.013)	ND (0.015)	
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.014)	ND (0.016)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0088)	ND (0.0092)	ND (0.0091)	ND (0.012)	
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.021)	ND (0.021)	ND (0.028)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.024)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.015)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.014)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.022)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.015)	
Aroclor 1262	NC	NC	NC	NC	ND (0.0099)	ND (0.010)	ND (0.010)	ND (0.014)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.015)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.011) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0092)	ND (0.0096)	ND (0.011)	ND (0.011)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.022)	ND (0.025)	ND (0.026)	
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.019)	ND (0.021)	ND (0.022)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.014)	
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.013)	
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.019)	ND (0.021)	
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.014)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.013)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.014)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.011) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5
					Lab Sample ID	JB1189-1	JB1189-2	JB1030-7	JB1030-8
					Sampling Date	3/8/2012	3/8/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.0089)	ND (0.010)	ND (0.011)	
Aroclor 1221	NC	NC	NC	NC	ND (0.025)	ND (0.021)	ND (0.024)	ND (0.025)	
Aroclor 1232	NC	NC	NC	NC	ND (0.021)	ND (0.017)	ND (0.020)	ND (0.021)	
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)	
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.012)	ND (0.013)	
Aroclor 1254	NC	NC	NC	NC	ND (0.020)	ND (0.016)	ND (0.019)	ND (0.020)	
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.013)	ND (0.014)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)	
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.011) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0093)	ND (0.0093)	ND (0.012)	
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.028)	
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.018)	ND (0.018)	ND (0.023)	
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.011)	ND (0.015)	
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.017)	ND (0.017)	ND (0.022)	
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.015)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.011)	ND (0.015)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.011) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0080)	ND (0.010)	ND (0.0093)	ND (0.011)	
Aroclor 1221	NC	NC	NC	NC	ND (0.019)	ND (0.023)	ND (0.022)	ND (0.025)	
Aroclor 1232	NC	NC	NC	NC	ND (0.016)	ND (0.019)	ND (0.018)	ND (0.021)	
Aroclor 1242	NC	NC	NC	NC	ND (0.0098)	ND (0.012)	ND (0.011)	ND (0.013)	
Aroclor 1248	NC	NC	NC	NC	ND (0.0094)	ND (0.012)	ND (0.011)	ND (0.013)	
Aroclor 1254	NC	NC	NC	NC	ND (0.014)	ND (0.018)	ND (0.017)	ND (0.020)	
Aroclor 1260	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.012)	ND (0.014)	
Aroclor 1262	NC	NC	NC	NC	ND (0.0091)	ND (0.011)	ND (0.011)	ND (0.012)	
Aroclor 1268	NC	NC	NC	NC	ND (0.0098)	ND (0.012)	ND (0.011)	ND (0.013)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.0089)	ND (0.012)	
Aroclor 1221	NC	NC	NC	NC	ND (0.026)	ND (0.029)	ND (0.021)	ND (0.028)	
Aroclor 1232	NC	NC	NC	NC	ND (0.022)	ND (0.024)	ND (0.017)	ND (0.024)	
Aroclor 1242	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.011)	ND (0.015)	
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.010)	ND (0.014)	
Aroclor 1254	NC	NC	NC	NC	ND (0.020)	ND (0.023)	ND (0.016)	ND (0.022)	
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.016)	ND (0.011)	ND (0.015)	
Aroclor 1262	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.010)	ND (0.014)	
Aroclor 1268	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.011)	ND (0.015)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7
					Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2
					Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.015)	ND (0.013)	
Aroclor 1221	NC	NC	NC	NC	ND (0.027)	ND (0.033)	ND (0.035)	ND (0.031)	
Aroclor 1232	NC	NC	NC	NC	ND (0.023)	ND (0.028)	ND (0.029)	ND (0.026)	
Aroclor 1242	NC	NC	NC	NC	ND (0.014)	ND (0.017)	ND (0.018)	ND (0.016)	
Aroclor 1248	NC	NC	NC	NC	ND (0.014)	ND (0.017)	ND (0.018)	ND (0.015)	
Aroclor 1254	NC	NC	NC	NC	ND (0.021)	ND (0.026)	ND (0.027)	ND (0.024)	
Aroclor 1260	NC	NC	NC	NC	ND (0.015)	ND (0.018)	ND (0.019)	ND (0.017)	
Aroclor 1262	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.017)	ND (0.015)	
Aroclor 1268	NC	NC	NC	NC	ND (0.014)	ND (0.017)	ND (0.018)	ND (0.016)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.015)		ND (0.014)
Aroclor 1221	NC	NC	NC	NC	ND (0.034)		ND (0.034)
Aroclor 1232	NC	NC	NC	NC	ND (0.029)		ND (0.028)
Aroclor 1242	NC	NC	NC	NC	ND (0.018)		ND (0.018)
Aroclor 1248	NC	NC	NC	NC	ND (0.017)		ND (0.017)
Aroclor 1254	NC	NC	NC	NC	ND (0.026)		ND (0.026)
Aroclor 1260	NC	NC	NC	NC	ND (0.018)		ND (0.018)
Aroclor 1262	NC	NC	NC	NC	ND (0.017)		ND (0.016)
Aroclor 1268	NC	NC	NC	NC	ND (0.018)		ND (0.018)
Total PCBs	0.1	25	1	3.2	ND		ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6	
					Lab Sample ID	JA80082-3	JA80082-4	JA80082-1	JA80082-2	
					Sampling Date	7/5/2011	7/5/2011	7/5/2011	7/5/2011	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
					Result	Result	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.0574	ND (0.00064)	0.0115	0.0016		
4,4'-DDE	0.0033	120	0.0033	17	0.011	ND (0.00074)	0.0029	0.0018		
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	ND (0.00092)	0.0043	0.0053		
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00063)	ND (0.00043)	ND (0.00033)		
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00060)	ND (0.00094)	ND (0.00064)	ND (0.00049)		
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	ND (0.00082)	ND (0.00056)	ND (0.00043)		
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00088)	ND (0.00060)	ND (0.00046)		
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA		
gamma-Chlordane	NC	NC	NC	14	ND (0.00041)	ND (0.00064)	ND (0.00044)	ND (0.00033)		
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00073)	ND (0.00050)	ND (0.00038)		
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00062)	ND (0.00097)	ND (0.00066)	ND (0.00051)		
Endosulfan I	2.4	920	NC	102	ND (0.00039)	ND (0.00061)	ND (0.00041)	ND (0.00032)		
Endosulfan II	2.4	920	NC	102	ND (0.00052)	ND (0.00083)	ND (0.00056)	ND (0.00043)		
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00072)	0.0032	a ND (0.00078)	ND (0.00059)		
Endrin	0.014	410	0.014	0.06	ND (0.00041)	ND (0.00064)	ND (0.00044)	ND (0.00033)		
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.0012)	ND (0.00081)	ND (0.00062)		
Endrin ketone	NC	NC	NC	NC	ND (0.00052)	ND (0.00082)	ND (0.00056)	ND (0.00042)		
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00057)	ND (0.00039)	ND (0.00030)		
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00077)	ND (0.00053)	ND (0.00040)		
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00039)	ND (0.00062)	ND (0.00042)	ND (0.00032)		
Methoxychlor	NC	NC	NC	NC	ND (0.00056)	ND (0.00089)	ND (0.00060)	ND (0.00046)		
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.016)	ND (0.011)	ND (0.0082)		
2,4-D	NC	NC	NC	0.5	ND (0.0056)	ND (0.0050)	ND (0.0062)	ND (0.0047)		
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00068)	ND (0.00060)	ND (0.00075)	ND (0.00057)		
2,4,5-T	NC	NC	NC	1.9	ND (0.0017)	ND (0.0015)	ND (0.0019)	ND (0.0014)		
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0012)	ND (0.0015)	ND (0.0011)		
Dicamba	NC	NC	NC	NC	ND (0.00079)	ND (0.00070)	ND (0.00087)	ND (0.00066)		
Dichloroprop	NC	NC	NC	NC	ND (0.0046)	ND (0.0041)	ND (0.0050)	ND (0.0038)		
Dinoseb	NC	NC	NC	NC	ND (0.0037)	ND (0.0032)	ND (0.0040)	ND (0.0031)		
MCPA	NC	NC	NC	NC	ND (0.61)	ND (0.54)	ND (0.67)	ND (0.51)		
MCPP	NC	NC	NC	NC	ND (0.32)	ND (0.28)	ND (0.35)	ND (0.27)		
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0013)	ND (0.0012)	ND (0.0014)	ND (0.0011)		
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.015)	ND (0.011)		

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3	JA80291-4	JA80291-1	JA80291-2
					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.292	ND (0.00034)	0.25	ND (0.00051)	
4,4'-DDE	0.0033	120	0.0033	17	0.179	ND (0.00039)	0.0394	ND (0.00058)	
4,4'-DDT	0.0033	94	0.0033	136	0.216	ND (0.00049)	0.0563	ND (0.00072)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00041)	ND (0.00033)	ND (0.00045)	ND (0.00049)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00062)	ND (0.00050)	ND (0.00067)	ND (0.00074)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00054)	ND (0.00043)	ND (0.00059)	ND (0.00064)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00058)	ND (0.00046)	ND (0.00063)	ND (0.00069)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00042)	ND (0.00034)	ND (0.00046)	ND (0.00050)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00048)	ND (0.00039)	ND (0.00053)	ND (0.00058)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00064)	ND (0.00051)	ND (0.00070)	ND (0.00076)	
Endosulfan I	2.4	920	NC	102	ND (0.00040)	ND (0.00032)	ND (0.00044)	ND (0.00048)	
Endosulfan II	2.4	920	NC	102	ND (0.00054)	ND (0.00044)	ND (0.00059)	ND (0.00065)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00074)	ND (0.00060)	ND (0.00081)	ND (0.00089)	
Endrin	0.014	410	0.014	0.06	ND (0.00042)	ND (0.00034)	ND (0.00046)	ND (0.00050)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00078)	ND (0.00063)	0.0021	ND (0.00094)	
Endrin ketone	NC	NC	NC	NC	ND (0.00053)	ND (0.00043)	ND (0.00058)	ND (0.00064)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00038)	ND (0.00030)	ND (0.00041)	ND (0.00045)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00050)	ND (0.00041)	ND (0.00055)	ND (0.00061)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00041)	ND (0.00033)	ND (0.00044)	ND (0.00049)	
Methoxychlor	NC	NC	NC	NC	0.0167	ND (0.00047)	0.0068	ND (0.00070)	
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.0083)	ND (0.011)	ND (0.012)	
2,4-D	NC	NC	NC	0.5	ND (0.0058)	ND (0.0047)	ND (0.0063)	ND (0.0069)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00070)	ND (0.00056)	ND (0.00076)	ND (0.00083)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0018)	ND (0.0014)	ND (0.0019)	ND (0.0021)	
Dalapon	NC	NC	NC	NC	ND (0.0014)	ND (0.0011)	ND (0.0015)	ND (0.0016)	
Dicamba	NC	NC	NC	NC	ND (0.00082)	ND (0.00066)	ND (0.00089)	ND (0.00097)	
Dichloroprop	NC	NC	NC	NC	ND (0.0047)	ND (0.0038)	ND (0.0052)	ND (0.0056)	
Dinoseb	NC	NC	NC	NC	ND (0.0038)	ND (0.0030)	ND (0.0041)	ND (0.0045)	
MCPA	NC	NC	NC	NC	ND (0.63)	ND (0.51)	ND (0.69)	ND (0.75)	
MCPP	NC	NC	NC	NC	73.3	a	ND (0.36)	ND (0.39)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0014)	ND (0.0011)	ND (0.0015)	ND (0.0016)	
2,4-DB	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.015)	ND (0.016)	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0735	0.0039	ND (0.00036)	0.33	
4,4'-DDE	0.0033	120	0.0033	17	0.0086	ND (0.00042)	ND (0.00041)	0.122	
4,4'-DDT	0.0033	94	0.0033	136	0.0181	ND (0.00052)	ND (0.00051)	0.156	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00035)	ND (0.00035)	ND (0.00047)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00053)	ND (0.00053)	ND (0.00071)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00044)	ND (0.00046)	ND (0.00046)	ND (0.00061)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00047)	ND (0.00050)	ND (0.00049)	ND (0.00066)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00036)	ND (0.00036)	ND (0.00048)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00039)	ND (0.00041)	ND (0.00041)	ND (0.00055)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00052)	ND (0.00055)	ND (0.00054)	ND (0.00073)	
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00034)	ND (0.00034)	ND (0.00046)	
Endosulfan II	2.4	920	NC	102	ND (0.00044)	ND (0.00047)	ND (0.00046)	ND (0.00062)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00061)	ND (0.00064)	ND (0.00064)	ND (0.00085)	
Endrin	0.014	410	0.014	0.06	ND (0.00034)	ND (0.00036)	ND (0.00036)	ND (0.00048)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00064)	ND (0.00067)	ND (0.00067)	ND (0.00090)	
Endrin ketone	NC	NC	NC	NC	ND (0.00044)	ND (0.00046)	ND (0.00046)	ND (0.00061)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00032)	ND (0.00032)	ND (0.00043)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00041)	ND (0.00043)	ND (0.00043)	ND (0.00058)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00033)	ND (0.00035)	ND (0.00035)	ND (0.00047)	
Methoxychlor	NC	NC	NC	NC	ND (0.00048)	ND (0.00050)	ND (0.00050)	ND (0.00067)	
Toxaphene	NC	NC	NC	NC	ND (0.00085)	ND (0.00089)	ND (0.00088)	ND (0.012)	
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0050)	ND (0.0049)	ND (0.0066)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00057)	ND (0.00060)	ND (0.00059)	ND (0.00080)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0015)	ND (0.0015)	ND (0.0020)	
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0012)	ND (0.0016)	
Dicamba	NC	NC	NC	NC	ND (0.00067)	ND (0.00070)	ND (0.00069)	ND (0.00093)	
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0041)	ND (0.0040)	ND (0.0054)	
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)	ND (0.0032)	ND (0.0043)	
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.54)	ND (0.53)	ND (0.72)	
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.37)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0015)	
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.016)	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6	
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6	
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0721	0.197	0.0293	0.194		
4,4'-DDE	0.0033	120	0.0033	17	0.008	0.0383	0.0174	0.047		
4,4'-DDT	0.0033	94	0.0033	136	0.0043	0.166	0.0389	0.004		
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)	ND (0.00037)	ND (0.00041)	ND (0.00044)		
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00053)	ND (0.00055)	ND (0.00061)	ND (0.00066)		
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00046)	ND (0.00048)	ND (0.00053)	ND (0.00057)		
beta-BHC	0.036	14	0.6	0.09	ND (0.00050)	ND (0.00052)	ND (0.00057)	ND (0.00062)		
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA		
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)	ND (0.00038)	ND (0.00042)	ND (0.00045)		
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00041)	ND (0.00043)	ND (0.00048)	ND (0.00051)		
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00055)	ND (0.00057)	ND (0.00063)	ND (0.00068)		
Endosulfan I	2.4	920	NC	102	ND (0.00034)	ND (0.00036)	ND (0.00040)	ND (0.00043)		
Endosulfan II	2.4	920	NC	102	ND (0.00047)	ND (0.00049)	ND (0.00054)	ND (0.00058)		
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00064)	ND (0.00067)	ND (0.00074)	ND (0.00080)		
Endrin	0.014	410	0.014	0.06	ND (0.00036)	ND (0.00038)	ND (0.00042)	ND (0.00045)		
Endrin aldehyde	NC	NC	NC	NC	ND (0.00067)	ND (0.00070)	ND (0.00077)	ND (0.00083)		
Endrin ketone	NC	NC	NC	NC	ND (0.00046)	ND (0.00048)	ND (0.00053)	ND (0.00057)		
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00034)	ND (0.00037)	ND (0.00040)		
Heptachlor	0.042	29	0.14	0.38	ND (0.00043)	ND (0.00045)	ND (0.00050)	ND (0.00054)		
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00035)	ND (0.00036)	ND (0.00040)	ND (0.00043)		
Methoxychlor	NC	NC	NC	NC	ND (0.00050)	ND (0.00052)	ND (0.00058)	ND (0.00062)		
Toxaphene	NC	NC	NC	NC	ND (0.0089)	ND (0.0093)	ND (0.010)	ND (0.011)		
2,4-D	NC	NC	NC	0.5	ND (0.0050)	ND (0.0052)	ND (0.0057)	ND (0.0061)		
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00060)	ND (0.00062)	ND (0.00069)	ND (0.00074)		
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0016)	ND (0.0017)	ND (0.0019)		
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0013)	ND (0.0014)		
Dicamba	NC	NC	NC	NC	ND (0.00070)	ND (0.00073)	ND (0.00080)	ND (0.00086)		
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0042)	ND (0.0046)	ND (0.0050)		
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0033)	ND (0.0037)	ND (0.0040)		
MCPA	NC	NC	NC	NC	ND (0.54)	ND (0.56)	ND (0.62)	ND (0.67)		
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.34)		
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0012)	ND (0.0013)	ND (0.0014)		
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.014)		

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5
					Lab Sample ID	JB1189-1	JB1189-2	JB1030-7	JB1030-8
					Sampling Date	3/8/2012	3/8/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.062	0.0023	0.0981	0.42	
4,4'-DDE	0.0033	120	0.0033	17	0.0616	ND (0.00040)	0.0441	0.107	
4,4'-DDT	0.0033	94	0.0033	136	0.0619	ND (0.00050)	0.0378	0.419	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00042)	ND (0.00034)	ND (0.00040)	ND (0.00042)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00063)	ND (0.00051)	ND (0.00060)	ND (0.00063)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00054)	ND (0.00044)	ND (0.00052)	ND (0.00054)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00059)	ND (0.00048)	ND (0.00056)	ND (0.00059)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00043)	ND (0.00035)	ND (0.00041)	ND (0.00043)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00049)	ND (0.00040)	ND (0.00047)	ND (0.00049)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00065)	ND (0.00053)	ND (0.00062)	ND (0.00065)	
Endosulfan I	2.4	920	NC	102	ND (0.00040)	ND (0.00033)	ND (0.00039)	ND (0.00040)	
Endosulfan II	2.4	920	NC	102	ND (0.00055)	ND (0.00045)	ND (0.00053)	ND (0.00055)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00076)	ND (0.00062)	ND (0.00073)	ND (0.00076)	
Endrin	0.014	410	0.014	0.06	ND (0.00043)	ND (0.00035)	ND (0.00041)	ND (0.00043)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00079)	ND (0.00065)	ND (0.00076)	ND (0.00079)	
Endrin ketone	NC	NC	NC	NC	ND (0.00054)	ND (0.00044)	ND (0.00052)	ND (0.00054)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00038)	ND (0.00031)	ND (0.00037)	ND (0.00038)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00051)	ND (0.00042)	ND (0.00049)	ND (0.00051)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00041)	ND (0.00034)	ND (0.00040)	ND (0.00041)	
Methoxychlor	NC	NC	NC	NC	ND (0.00059)	ND (0.00048)	ND (0.00057)	ND (0.00059)	
Toxaphene	NC	NC	NC	NC	ND (0.011)	ND (0.0086)	ND (0.010)	ND (0.011)	
2,4-D	NC	NC	NC	0.5	ND (0.0058)	ND (0.0048)	ND (0.0056)	ND (0.0059)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00070)	ND (0.00058)	ND (0.00068)	ND (0.00071)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0018)	ND (0.0014)	ND (0.0017)	ND (0.0018)	
Dalapon	NC	NC	NC	NC	ND (0.0014)	ND (0.0011)	ND (0.0013)	ND (0.0014)	
Dicamba	NC	NC	NC	NC	ND (0.00082)	ND (0.00067)	ND (0.00079)	ND (0.00083)	
Dichloroprop	NC	NC	NC	NC	ND (0.0047)	ND (0.0039)	ND (0.0046)	ND (0.0048)	
Dinoseb	NC	NC	NC	NC	ND (0.0038)	ND (0.0031)	ND (0.0036)	ND (0.0038)	
MCPA	NC	NC	NC	NC	ND (0.64)	ND (0.52)	ND (0.61)	ND (0.64)	
MCPP	NC	NC	NC	NC	ND (0.33)	ND (0.27)	ND (0.31)	ND (0.33)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0014)	ND (0.0011)	ND (0.0013)	ND (0.0014)	
2,4-DB	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.013)	ND (0.014)	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

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SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.186	0.0206	0.028	0.510	
4,4'-DDE	0.0033	120	0.0033	17	0.115	0.0028	0.0191	0.0508	
4,4'-DDT	0.0033	94	0.0033	136	0.237	0.0258	0.124	0.42	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00036)	ND (0.00036)	ND (0.00046)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00060)	ND (0.00054)	ND (0.00054)	ND (0.00069)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	ND (0.00047)	ND (0.00047)	ND (0.00060)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00050)	ND (0.00050)	ND (0.00065)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00041)	ND (0.00037)	ND (0.00037)	ND (0.00047)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00042)	ND (0.00042)	ND (0.00054)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00062)	ND (0.00055)	ND (0.00055)	ND (0.00071)	
Endosulfan I	2.4	920	NC	102	ND (0.00039)	ND (0.00035)	ND (0.00035)	ND (0.00045)	
Endosulfan II	2.4	920	NC	102	ND (0.00052)	ND (0.00047)	ND (0.00047)	ND (0.00061)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00072)	ND (0.00065)	ND (0.00065)	ND (0.00083)	
Endrin	0.014	410	0.014	0.06	ND (0.00041)	ND (0.00037)	ND (0.00037)	ND (0.00047)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.00068)	ND (0.00068)	ND (0.00087)	
Endrin ketone	NC	NC	NC	NC	ND (0.00052)	ND (0.00047)	ND (0.00047)	ND (0.00060)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00033)	ND (0.00033)	ND (0.00042)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00044)	ND (0.00044)	ND (0.00056)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00039)	ND (0.00035)	ND (0.00035)	ND (0.00045)	
Methoxychlor	NC	NC	NC	NC	ND (0.00056)	ND (0.00051)	ND (0.00051)	ND (0.00065)	
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.0090)	ND (0.0090)	ND (0.012)	
2,4-D	NC	NC	NC	0.5	ND (0.0056)	ND (0.0051)	ND (0.0051)	ND (0.0064)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00067)	ND (0.00061)	ND (0.00061)	ND (0.00078)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0017)	ND (0.0015)	ND (0.0015)	ND (0.0020)	
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0012)	ND (0.0012)	ND (0.0015)	
Dicamba	NC	NC	NC	NC	ND (0.00078)	ND (0.00071)	ND (0.00071)	ND (0.00091)	
Dichloroprop	NC	NC	NC	NC	ND (0.0045)	ND (0.0041)	ND (0.0041)	ND (0.0052)	
Dinoseb	NC	NC	NC	NC	ND (0.0036)	ND (0.0033)	ND (0.0033)	ND (0.0042)	
MCPA	NC	NC	NC	NC	ND (0.61)	ND (0.55)	ND (0.55)	ND (0.70)	
MCPP	NC	NC	NC	NC	ND (0.31)	ND (0.28)	ND (0.28)	ND (0.36)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0013)	ND (0.0012)	ND (0.0012)	ND (0.0015)	
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.015)	

Notes:

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SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0063	0.11	0.0186	0.0172	
4,4'-DDE	0.0033	120	0.0033	17	0.0205	0.0386	0.0099	0.0054	a
4,4'-DDT	0.0033	94	0.0033	136	0.0925	0.362	0.0433		0.0013
Aldrin	0.005	1.4	0.14	0.19	ND (0.00031)	ND (0.00038)	ND (0.00036)		ND (0.00042)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00046)	ND (0.00058)	ND (0.00054)		ND (0.00063)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00040)	ND (0.00050)	0.0011		ND (0.00055)
beta-BHC	0.036	14	0.6	0.09	ND (0.00043)	ND (0.00054)	ND (0.00050)		ND (0.00059)
Chlordane	NC	NC	NC	NC	NA	NA	NA		NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00032)	ND (0.00039)	0.00095	a	ND (0.00043)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00036)	ND (0.00045)	ND (0.00042)		ND (0.00049)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00048)	ND (0.00059)	ND (0.00056)		ND (0.00065)
Endosulfan I	2.4	920	NC	102	ND (0.00030)	ND (0.00037)	ND (0.00035)		ND (0.00041)
Endosulfan II	2.4	920	NC	102	ND (0.00041)	ND (0.00051)	ND (0.00047)		ND (0.00055)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00056)	ND (0.00069)	ND (0.00065)		ND (0.00076)
Endrin	0.014	410	0.014	0.06	ND (0.00032)	ND (0.00039)	ND (0.00037)		ND (0.00043)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00059)	ND (0.00073)	ND (0.00068)		ND (0.00080)
Endrin ketone	NC	NC	NC	NC	ND (0.00040)	ND (0.00050)	ND (0.00047)		ND (0.00055)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00028)	ND (0.00035)	ND (0.00033)		ND (0.00038)
Heptachlor	0.042	29	0.14	0.38	ND (0.00038)	ND (0.00047)	ND (0.00044)		ND (0.00052)
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00030)	ND (0.00038)	ND (0.00035)		ND (0.00041)
Methoxychlor	NC	NC	NC	NC	ND (0.00044)	ND (0.00054)	ND (0.00051)		ND (0.00059)
Toxaphene	NC	NC	NC	NC	ND (0.0078)	ND (0.0097)	ND (0.0090)		ND (0.011)
2,4-D	NC	NC	NC	0.5	ND (0.0043)	ND (0.0054)	ND (0.0050)		ND (0.0059)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00052)	ND (0.00065)	ND (0.00060)		ND (0.00071)
2,4,5-T	NC	NC	NC	1.9	ND (0.0013)	ND (0.0016)	ND (0.0015)		ND (0.0018)
Dalapon	NC	NC	NC	NC	ND (0.0010)	ND (0.0013)	ND (0.0012)		ND (0.0014)
Dicamba	NC	NC	NC	NC	ND (0.00061)	ND (0.00075)	ND (0.00070)		ND (0.00083)
Dichloroprop	NC	NC	NC	NC	ND (0.0035)	ND (0.0044)	ND (0.0041)		ND (0.0048)
Dinoseb	NC	NC	NC	NC	ND (0.0028)	ND (0.0035)	ND (0.0032)		ND (0.0038)
MCPA	NC	NC	NC	NC	ND (0.47)	ND (0.58)	ND (0.54)		ND (0.64)
MCPP	NC	NC	NC	NC	ND (0.24)	ND (0.30)	ND (0.28)		ND (0.33)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0010)	ND (0.0013)	ND (0.0012)		ND (0.0014)
2,4-DB	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.012)		ND (0.014)

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

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SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	1.55	0.0078	0.0055	0.37	
4,4'-DDE	0.0033	120	0.0033	17	0.395	0.0041	0.0046	0.324	
4,4'-DDT	0.0033	94	0.0033	136	2.08	0.0064	0.0062	0.235	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00043)	ND (0.00048)	ND (0.00036)	ND (0.00046)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00065)	ND (0.00072)	ND (0.00053)	ND (0.00069)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00056)	ND (0.00063)	ND (0.00046)	ND (0.00060)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00061)	ND (0.00068)	ND (0.00050)	ND (0.00064)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00044)	ND (0.00049)	ND (0.00036)	ND (0.00047)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00051)	ND (0.00056)	ND (0.00042)	ND (0.00054)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00067)	ND (0.00074)	ND (0.00055)	ND (0.00071)	
Endosulfan I	2.4	920	NC	102	ND (0.00042)	ND (0.00047)	ND (0.00035)	ND (0.00044)	
Endosulfan II	2.4	920	NC	102	ND (0.00057)	ND (0.00063)	ND (0.00047)	ND (0.00060)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00078)	ND (0.00087)	ND (0.00065)	ND (0.00083)	
Endrin	0.014	410	0.014	0.06	ND (0.00044)	ND (0.00049)	ND (0.00036)	ND (0.00047)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00082)	ND (0.00091)	ND (0.00068)	ND (0.00087)	
Endrin ketone	NC	NC	NC	NC	ND (0.00056)	ND (0.00063)	ND (0.00046)	ND (0.00060)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00039)	ND (0.00044)	ND (0.00033)	ND (0.00042)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00053)	ND (0.00059)	ND (0.00044)	ND (0.00056)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00043)	ND (0.00047)	ND (0.00035)	ND (0.00045)	
Methoxychlor	NC	NC	NC	NC	ND (0.00061)	ND (0.00068)	ND (0.00050)	ND (0.00065)	
Toxaphene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.0090)	ND (0.012)	
2,4-D	NC	NC	NC	0.5	ND (0.0060)	ND (0.0067)	ND (0.0050)	ND (0.0066)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00073)	ND (0.00081)	ND (0.00060)	ND (0.00080)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0018)	ND (0.0020)	ND (0.0015)	ND (0.0020)	
Dalapon	NC	NC	NC	NC	ND (0.0014)	ND (0.0016)	ND (0.0012)	ND (0.0016)	
Dicamba	NC	NC	NC	NC	ND (0.00085)	ND (0.00095)	ND (0.00070)	ND (0.00093)	
Dichloroprop	NC	NC	NC	NC	ND (0.0049)	ND (0.0055)	ND (0.0041)	ND (0.0054)	
Dinoseb	NC	NC	NC	NC	ND (0.0039)	ND (0.0044)	ND (0.0032)	ND (0.0043)	
MCPA	NC	NC	NC	NC	ND (0.66)	ND (0.73)	ND (0.54)	ND (0.72)	
MCPP	NC	NC	NC	NC	ND (0.34)	ND (0.38)	ND (0.28)	ND (0.37)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0014)	ND (0.0016)	ND (0.0012)	ND (0.0015)	
2,4-DB	NC	NC	NC	NC	ND (0.014)	ND (0.016)	ND (0.012)	ND (0.016)	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7
					Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2
					Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	1.89	0.06	4.56	0.156	
4,4'-DDE	0.0033	120	0.0033	17	0.35	0.03	0.887	0.0372	
4,4'-DDT	0.0033	94	0.0033	136	0.78	0.01	0.0678	0.0142	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00045)	ND (0.00055)	ND (0.00058)	ND (0.00051)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00068)	ND (0.00082)	0.01	0.00	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00059)	ND (0.00071)	0.02	ND (0.00066)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00064)	ND (0.00077)	ND (0.00081)	ND (0.00071)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00046)	ND (0.00056)	0.03	ND (0.00052)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00053)	ND (0.00064)	ND (0.00068)	ND (0.00059)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00070)	ND (0.00085)	ND (0.00090)	ND (0.00079)	
Endosulfan I	2.4	920	NC	102	ND (0.00044)	ND (0.00053)	ND (0.00056)	ND (0.00049)	
Endosulfan II	2.4	920	NC	102	ND (0.00060)	ND (0.00072)	ND (0.00076)	ND (0.00067)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00082)	ND (0.00099)	ND (0.0010)	ND (0.00092)	
Endrin	0.014	410	0.014	0.06	ND (0.00046)	ND (0.00056)	ND (0.00059)	ND (0.00052)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00086)	ND (0.0010)	ND (0.0011)	ND (0.00096)	
Endrin ketone	NC	NC	NC	NC	ND (0.00059)	ND (0.00071)	ND (0.00075)	ND (0.00066)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00041)	ND (0.00050)	ND (0.00053)	ND (0.00046)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00056)	ND (0.00067)	0.00	ND (0.00062)	
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00045)	ND (0.00054)	ND (0.00057)	ND (0.00050)	
Methoxychlor	NC	NC	NC	NC	0.01	ND (0.00077)	ND (0.00082)	ND (0.00072)	
Toxaphene	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.015)	ND (0.013)	
2,4-D	NC	NC	NC	0.5	ND (0.0064)	ND (0.0075)	ND (0.0075)	ND (0.0075)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00078)	ND (0.00090)	ND (0.00090)	ND (0.00090)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0020)	ND (0.0023)	ND (0.0023)	ND (0.0023)	
Dalapon	NC	NC	NC	NC	ND (0.0015)	ND (0.0018)	ND (0.0018)	ND (0.0018)	
Dicamba	NC	NC	NC	NC	ND (0.00091)	ND (0.0011)	ND (0.0010)	ND (0.0010)	
Dichloroprop	NC	NC	NC	NC	ND (0.0052)	ND (0.0061)	ND (0.0061)	ND (0.0061)	
Dinoseb	NC	NC	NC	NC	ND (0.0042)	ND (0.0049)	ND (0.0048)	ND (0.0048)	
MCPA	NC	NC	NC	NC	ND (0.70)	ND (0.82)	ND (0.81)	ND (0.81)	
MCPP	NC	NC	NC	NC	ND (0.36)	ND (0.42)	ND (0.42)	ND (0.42)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0015)	ND (0.0017)	ND (0.0017)	ND (0.0017)	
2,4-DB	NC	NC	NC	NC	ND (0.015)	ND (0.018)	ND (0.018)	ND (0.018)	

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	4.13		0.99
4,4'-DDE	0.0033	120	0.0033	17	2.45	a	0.347
4,4'-DDT	0.0033	94	0.0033	136	0.28		0.042
Aldrin	0.005	1.4	0.14	0.19	ND (0.00056)		ND (0.00054)
alpha-BHC	0.02	6.8	0.04	0.02	0.01		0.01
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00073)		ND (0.00070)
beta-BHC	0.036	14	0.6	0.09	ND (0.00079)		ND (0.00076)
Chlordane	NC	NC	NC	NC	NA		NA
gamma-Chlordane	NC	NC	NC	14	0.08	a	0.02
delta-BHC	0.04	1,000	0.04	0.25	0.002		ND (0.00063)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00087)		ND (0.00083)
Endosulfan I	2.4	920	NC	102	ND (0.00055)		ND (0.00052)
Endosulfan II	2.4	920	NC	102	ND (0.00074)		ND (0.00071)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.0010)		ND (0.00098)
Endrin	0.014	410	0.014	0.06	ND (0.00058)		ND (0.00055)
Endrin aldehyde	NC	NC	NC	NC	ND (0.0011)		ND (0.0010)
Endrin ketone	NC	NC	NC	NC	ND (0.00073)		ND (0.00070)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00051)		ND (0.00049)
Heptachlor	0.042	29	0.14	0.38	ND (0.00069)		ND (0.00066)
Heptachlor epoxide	NC	NC	NC	NC	ND (0.00056)		ND (0.00053)
Methoxychlor	NC	NC	NC	NC	ND (0.00080)		ND (0.00076)
Toxaphene	NC	NC	NC	NC	ND (0.014)		ND (0.014)
2,4-D	NC	NC	NC	0.5	ND (0.0081)		ND (0.0081)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00097)		ND (0.00097)
2,4,5-T	NC	NC	NC	1.9	ND (0.0024)		ND (0.0024)
Dalapon	NC	NC	NC	NC	ND (0.0019)		ND (0.0019)
Dicamba	NC	NC	NC	NC	ND (0.0011)		ND (0.0011)
Dichloroprop	NC	NC	NC	NC	ND (0.0066)		ND (0.0066)
Dinoseb	NC	NC	NC	NC	ND (0.0052)		ND (0.0052)
MCPA	NC	NC	NC	NC	ND (0.88)		ND (0.88)
MCPP	NC	NC	NC	NC	ND (0.45)		ND (0.45)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0019)		ND (0.0019)
2,4-DB	NC	NC	NC	NC	ND (0.019)		ND (0.019)

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.00043) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6		
					Lab Sample ID	JA80082-3	JA80082-4	JA80082-1	JA80082-2		
Matrix					Sampling Date	7/5/2011	7/5/2011	7/5/2011	7/5/2011		
Units					Soil	mg/kg	mg/kg	mg/kg	mg/kg		
Result					Result						
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)		ND (0.019)	ND (0.013)	ND (0.010)		
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA		NA	NA	NA		
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.040)		ND (0.064)	ND (0.044)	ND (0.033)		
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.045)		ND (0.072)	ND (0.049)	ND (0.038)		
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.037)		ND (0.059)	ND (0.040)	ND (0.031)		
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.063)		ND (0.10)	ND (0.069)	ND (0.052)		
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.065)		ND (0.10)	ND (0.072)	ND (0.055)		
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.047)		ND (0.076)	ND (0.052)	ND (0.040)		
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.017)		ND (0.027)	ND (0.019)	ND (0.014)		
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)		ND (0.024)	ND (0.016)	ND (0.012)		
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.012)		ND (0.019)	ND (0.013)	ND (0.010)		
2-Chlorophenol	NC	NC	NC	NC	ND (0.039)		ND (0.063)	ND (0.043)	ND (0.033)		
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.022)		ND (0.035)	ND (0.024)	ND (0.018)		
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.044)		ND (0.071)	ND (0.049)	ND (0.037)		
2-Nitroaniline	NC	NC	NC	NC	ND (0.017)		ND (0.027)	ND (0.019)	ND (0.014)		
2-Nitrophenol	NC	NC	NC	NC	ND (0.041)		ND (0.066)	ND (0.045)	ND (0.034)		
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.049)		ND (0.079)	ND (0.054)	ND (0.041)		
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0099)		ND (0.016)	ND (0.011)	ND (0.0083)		
3-Nitroaniline	NC	NC	NC	NC	ND (0.016)		ND (0.025)	ND (0.017)	ND (0.013)		
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.047)		ND (0.076)	ND (0.052)	ND (0.040)		
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.014)		ND (0.023)	ND (0.015)	ND (0.012)		
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.039)		ND (0.062)	ND (0.043)	ND (0.033)		
4-Chloroaniline	NC	NC	NC	NC	ND (0.012)		ND (0.020)	ND (0.014)	ND (0.010)		
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)		ND (0.019)	ND (0.013)	ND (0.0098)		
4-Methylphenol	NC	NC	NC	NC	NA		NA	NA	NA		
4-Nitroaniline	NC	NC	NC	NC	ND (0.015)		ND (0.024)	ND (0.017)	ND (0.013)		
4-Nitrophenol	NC	NC	NC	NC	ND (0.066)		ND (0.11)	ND (0.072)	ND (0.055)		
Acenaphthene	20	1,000	0.02	98	ND (0.011)		0.0305	J	ND (0.0094)		
Acenaphthylene	100	1,000	NC	107	ND (0.012)		0.0291	J	ND (0.010)		
Acetophenone	NC	NC	NC	NC	ND (0.0068)		ND (0.011)	ND (0.0075)	ND (0.0057)		
Anthracene	100	1,000	NC	1,000	ND (0.014)		0.0398	J	ND (0.011)		
Atrazine	NC	NC	NC	NC	ND (0.0077)		ND (0.012)	ND (0.0084)	ND (0.0064)		
Benzaldehyde	NC	NC	NC	NC	ND (0.0089)		0.0705	J	ND (0.0075)		
Benzo[a]anthracene	1	11	NC	1	0.0186	J	0.0896		ND (0.011)		
Benzo[a]pyrene	1	1	0.0026	22	0.0188	J	0.0877		ND (0.0099)		
Benzo[b]fluoranthene	1	11	NC	2	0.0194	J	0.0686		ND (0.011)		
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0171	J	0.0386	J	ND (0.012)		
Benzo[k]fluoranthene	1	110	NC	2	0.0158	J	0.0484	J	ND (0.012)		
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.016)		ND (0.025)	ND (0.017)	ND (0.013)		
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.012)		ND (0.019)	ND (0.013)	ND (0.0098)		
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.034)		ND (0.055)	ND (0.038)	ND (0.029)		
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.023)		ND (0.036)	ND (0.025)	ND (0.019)		
Caprolactam	NC	NC	NC	NC	ND (0.012)		ND (0.020)	ND (0.013)	ND (0.010)		
Carbazole	NC	NC	NC	NC	ND (0.018)		ND (0.029)	ND (0.020)	ND (0.015)		
Chrysene	1	110	NC	1	0.0182	J	0.0996		ND (0.011)		
Dibenz(a,h)anthracene	0	1	NC	1,000	ND (0.013)		ND (0.021)	0.0318	J	ND (0.011)	
Dibenzofuran	7	1,000	NC	210	ND (0.012)		ND (0.019)	ND (0.013)		ND (0.0097)	
Diethyl phthalate	NC	NC	NC	NC	ND (0.013)		ND (0.021)	ND (0.015)		ND (0.011)	
Dimethyl phthalate	NC	NC	NC	NC	ND (0.014)		ND (0.022)	0.0494	J	ND (0.011)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0086)		ND (0.014)	ND (0.0095)		ND (0.0072)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.019)		ND (0.030)	ND (0.021)		ND (0.016)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0045)		ND (0.0072)	ND (0.0049)		ND (0.0038)	
Fluoranthene	100	1,000	NC	1,000	0.0281	J	0.1450			ND (0.014)	
Fluorene	30	1,000	0.03	386	ND (0.013)		ND (0.020)	ND (0.014)		ND (0.011)	
Hexachlorobenzene	0	12	NC	3	ND (0.013)		ND (0.020)	ND (0.014)		ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)		ND (0.017)	ND (0.012)		ND (0.0090)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.040)		ND (0.064)	ND (0.043)		ND (0.033)	
Hexachloroethane	NC	NC	NC	NC	ND (0.011)		ND (0.017)	ND (0.012)		ND (0.0090)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	ND (0.013)		0.0374	J		ND (0.011)	
Isophorone	NC	NC	NC	NC	ND (0.010)		ND (0.017)	ND (0.011)		ND (0.0087)	
Naphthalene	12	1,000	NC	12	ND (0.011)		ND (0.017)	ND (0.012)		ND (0.0089)	
Nitrobenzene	NC	NC	NC	NC	ND (0.011)		ND (0.018)	ND (0.012)		ND (0.0094)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0095)		ND (0.015)	ND (0.010)		ND (0.0079)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.023)		ND (0.037)	ND (0.025)		ND (0.019)	
Pentachlorophenol	1	55	0.0008	1	ND (0.066)		ND (0.11)	ND (0.073)		ND (0.056)	
Phenanthrene	100	1,000	NC	1,000	0.0187	J	0.0813			ND (0.015)	
Phenol	0	1,000	0	0	ND (0.041)		ND (0.066)	ND (0.045)		ND (0.034)	
Pyrene	100	1,000	NC	1,000	0.0238	J	0.1520			ND (0.012)	
Total SVOCs	NC	NC	NC	NC	0.18		1.02			1.24	ND

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3	JA80291-4	JA80291-1	JA80291-2
Matrix					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
Units					Soil	Soil	Soil	Soil	Soil
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					Result	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	1R-22.1-ENV-4/1	ND (0.0099)	1R-22.1-ENV-5/1	ND (0.015)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.041)	ND (0.033)	ND (0.044)	ND (0.049)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.046)	ND (0.037)	ND (0.050)	ND (0.056)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.038)	ND (0.030)	ND (0.041)	ND (0.045)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.065)	ND (0.052)	ND (0.070)	ND (0.077)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.067)	ND (0.054)	ND (0.073)	ND (0.081)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.049)	ND (0.039)	ND (0.053)	ND (0.058)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.014)	ND (0.019)	ND (0.021)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.012)	ND (0.016)	ND (0.018)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.013)	ND (0.015)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.040)	ND (0.032)	ND (0.044)	ND (0.048)	
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.022)	ND (0.018)	ND (0.024)	ND (0.027)	
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.046)	ND (0.037)	ND (0.049)	ND (0.055)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.018)	ND (0.014)	ND (0.019)	ND (0.021)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.042)	ND (0.034)	ND (0.046)	ND (0.051)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.051)	ND (0.041)	ND (0.055)	ND (0.061)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.010)	ND (0.0082)	ND (0.011)	ND (0.012)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.017)	ND (0.019)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.049)	ND (0.039)	ND (0.053)	ND (0.058)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.012)	ND (0.016)	ND (0.017)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.032)	ND (0.043)	ND (0.048)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.014)	ND (0.015)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.0097)	ND (0.013)	ND (0.014)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.017)	ND (0.019)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.068)	ND (0.054)	ND (0.073)	ND (0.081)	
Acenaphthene	20	1,000	0.02	98	ND (0.012)	ND (0.0093)	ND (0.013)	ND (0.014)	
Acenaphthylene	100	1,000	NC	107	0.130	ND (0.010)	0.0733	ND (0.015)	
Acetophenone	NC	NC	NC	NC	ND (0.0071)	ND (0.0057)	ND (0.0076)	ND (0.0084)	
Anthracene	100	1,000	NC	1,000	0.0656	ND (0.011)	0.0544	0.0298	J
Atrazine	NC	NC	NC	NC	ND (0.0079)	ND (0.0063)	ND (0.0085)	ND (0.0094)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0092)	ND (0.0074)	ND (0.0099)	ND (0.011)	
Benzo[a]anthracene	1	11	NC	1	0.1490	ND (0.010)	0.0522	0.0521	
Benzo[a]pyrene	1	1	0.0026	22	0.2090	ND (0.0098)	0.0686	0.0410	J
Benzo[b]fluoranthene	1	11	NC	2	0.1560	ND (0.011)	0.0808	0.0304	J
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.1660	ND (0.012)	0.0884	0.0222	J
Benzo[k]fluoranthene	1	110	NC	2	0.1870	ND (0.012)	0.0459	0.0220	J
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.017)	ND (0.019)	
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.012)	ND (0.0097)	ND (0.013)	ND (0.014)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	0.0686	J	ND (0.028)	0.0486	J
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.023)	ND (0.019)	ND (0.025)	ND (0.028)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.014)	ND (0.015)	
Carbazole	NC	NC	NC	NC	ND (0.019)	ND (0.015)	ND (0.020)	ND (0.022)	
Chrysene	1	110	NC	1	0.2050	ND (0.011)	0.0759	0.0619	
Dibenz(a,h)anthracene	0	1	NC	1,000	0.0599	ND (0.011)	0.0354	J	ND (0.016)
Dibenzofuran	7	1,000	NC	210	ND (0.012)	ND (0.0095)	ND (0.013)	ND (0.014)	
Diethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.015)	ND (0.016)	
Dimethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.015)	ND (0.017)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0089)	ND (0.0071)	ND (0.0096)	ND (0.011)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.020)	ND (0.016)	ND (0.021)	ND (0.023)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0046)	ND (0.0037)	ND (0.0050)	ND (0.0056)	
Fluoranthene	100	1,000	NC	1,000	0.1560	ND (0.014)	0.0579	0.0770	
Fluorene	30	1,000	0.03	386	ND (0.013)	ND (0.011)	ND (0.014)	ND (0.016)	
Hexachlorobenzene	0	12	NC	3	ND (0.013)	ND (0.010)	ND (0.014)	ND (0.016)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.0089)	ND (0.012)	ND (0.013)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.041)	ND (0.033)	ND (0.044)	ND (0.049)	
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.0089)	ND (0.012)	ND (0.013)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.1520	ND (0.011)	0.0745	0.0204	J
Isophorone	NC	NC	NC	NC	ND (0.011)	ND (0.0086)	ND (0.012)	ND (0.013)	
Naphthalene	12	1,000	NC	12	0.0313	J	ND (0.0088)	0.0299	J
Nitrobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.0093)	ND (0.012)	ND (0.014)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0098)	ND (0.0078)	ND (0.011)	ND (0.012)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.024)	ND (0.019)	ND (0.026)	ND (0.029)	
Pentachlorophenol	1	55	0.0008	1	ND (0.069)	ND (0.055)	ND (0.074)	ND (0.082)	
Phenanthrene	100	1,000	NC	1,000	0.0917	ND (0.015)	0.0472	ND (0.022)	
Phenol	0	1,000	0	0	ND (0.042)	ND (0.034)	ND (0.045)	ND (0.050)	
Pyrene	100	1,000	NC	1,000	0.1860	ND (0.012)	0.0746	0.1050	
Total SVOCs	NC	NC	NC	NC	2.00	ND	0.91	0.46	

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- NA - Not Analyzed
- NC - No Criterion
- ND (0.013) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
- * - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
Matrix					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
Units					Soil	Soil	Soil	Soil	Soil
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					Result	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0099)	ND (0.011)	ND (0.010)	ND (0.014)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.035)	ND (0.035)	ND (0.048)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.038)	ND (0.040)	ND (0.039)	ND (0.054)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.030)	ND (0.032)	ND (0.032)	ND (0.044)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.052)	ND (0.055)	ND (0.054)	ND (0.075)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.054)	ND (0.058)	ND (0.056)	ND (0.079)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.040)	ND (0.042)	ND (0.041)	ND (0.057)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.020)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.018)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.015)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.035)	ND (0.034)	ND (0.047)	
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.026)	
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.053)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.021)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.034)	ND (0.036)	ND (0.036)	ND (0.050)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.041)	ND (0.044)	ND (0.043)	ND (0.059)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0082)	ND (0.0087)	ND (0.0085)	ND (0.012)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.019)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.042)	ND (0.041)	ND (0.057)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.017)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.034)	ND (0.034)	ND (0.047)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.015)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.014)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.018)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.055)	ND (0.058)	ND (0.057)	ND (0.079)	
Acenaphthene	20	1,000	0.02	98	ND (0.0094)	ND (0.010)	ND (0.0097)	0.0546	
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.015)	
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0060)	ND (0.0059)	ND (0.0082)	
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.012)	ND (0.012)	0.0897	
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0068)	ND (0.0066)	ND (0.0092)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0079)	ND (0.0077)	ND (0.011)	
Benzo[a]anthracene	1	11	NC	1	ND (0.011)	ND (0.011)	ND (0.011)	0.0895	
Benzo[a]pyrene	1	1	0.0026	22	ND (0.0099)	ND (0.010)	ND (0.010)	0.0767	
Benzo[b]fluoranthene	1	11	NC	2	ND (0.011)	ND (0.011)	ND (0.011)	0.0760	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	ND (0.013)	ND (0.013)	0.0469	J
Benzo[k]fluoranthene	1	110	NC	2	ND (0.012)	ND (0.013)	ND (0.013)	0.0510	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.019)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.014)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.029)	ND (0.030)	ND (0.030)	ND (0.041)	
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.027)	
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.015)	
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.022)	
Chrysene	1	110	NC	1	ND (0.011)	ND (0.012)	ND (0.011)	0.1010	
Dibenz(a,h)anthracene	0	1	NC	1,000	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.016)	
Dibenzofuran	7	1,000	NC	210	ND (0.0096)	ND (0.010)	ND (0.010)	ND (0.014)	
Diethyl phthalate	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.016)	
Dimethyl phthalate	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.016)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0072)	ND (0.0076)	ND (0.0075)	ND (0.010)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.023)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0038)	ND (0.0040)	ND (0.0039)	ND (0.0054)	
Fluoranthene	100	1,000	NC	1,000	ND (0.014)	ND (0.015)	ND (0.015)	0.1820	
Fluorene	30	1,000	0.03	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.015)	
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.015)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0095)	ND (0.0093)	ND (0.013)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.033)	ND (0.035)	ND (0.034)	ND (0.048)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0095)	ND (0.0093)	ND (0.013)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	ND (0.011)	ND (0.012)	ND (0.012)	0.0404	J
Isophorone	NC	NC	NC	NC	ND (0.0087)	ND (0.0092)	ND (0.0090)	ND (0.013)	
Naphthalene	12	1,000	NC	12	ND (0.0088)	ND (0.0094)	ND (0.0092)	ND (0.013)	
Nitrobenzene	NC	NC	NC	NC	ND (0.0094)	ND (0.0099)	ND (0.0097)	ND (0.011)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0084)	ND (0.0082)	ND (0.014)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.019)	ND (0.021)	ND (0.020)	ND (0.028)	
Pentachlorophenol	1	55	0.0008	1	ND (0.055)	ND (0.059)	ND (0.057)	ND (0.080)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.016)	ND (0.015)	0.0251	J
Phenol	0	1,000	0	0	ND (0.034)	ND (0.036)	ND (0.035)	ND (0.049)	
Pyrene	100	1,000	NC	1,000	ND (0.012)	ND (0.013)	ND (0.013)	0.2030	
Total SVOCs	NC	NC	NC	NC	ND	ND	ND	1.04	

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6		
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6		
Matrix					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012		
Units					Soil	Soil	Soil	Soil	Soil		
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
					Result	Result	Result	Result	Result		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)		ND (0.011)	ND (0.012)	ND (0.013)		
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA		NA	NA	NA		
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)		ND (0.037)	ND (0.041)	ND (0.043)		
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.040)		ND (0.042)	ND (0.046)	ND (0.049)		
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.032)		ND (0.034)	ND (0.037)	ND (0.040)		
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.055)		ND (0.058)	ND (0.064)	ND (0.068)		
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)		ND (0.060)	ND (0.066)	ND (0.071)		
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.042)		ND (0.044)	ND (0.048)	ND (0.051)		
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)		ND (0.016)	ND (0.017)	ND (0.018)		
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.013)		ND (0.014)	ND (0.015)	ND (0.016)		
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)		ND (0.011)	ND (0.012)	ND (0.013)		
2-Chlorophenol	NC	NC	NC	NC	ND (0.034)		ND (0.036)	ND (0.040)	ND (0.043)		
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.019)		ND (0.020)	ND (0.022)	ND (0.023)		
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.039)		ND (0.041)	ND (0.045)	ND (0.048)		
2-Nitroaniline	NC	NC	NC	NC	ND (0.015)		ND (0.016)	ND (0.017)	ND (0.019)		
2-Nitrophenol	NC	NC	NC	NC	ND (0.036)		ND (0.038)	ND (0.042)	ND (0.045)		
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.043)		ND (0.046)	ND (0.050)	ND (0.053)		
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0087)		ND (0.0091)	ND (0.010)	ND (0.011)		
3-Nitroaniline	NC	NC	NC	NC	ND (0.014)		ND (0.014)	ND (0.016)	ND (0.017)		
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)		ND (0.044)	ND (0.048)	ND (0.051)		
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)		ND (0.013)	ND (0.014)	ND (0.015)		
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)		ND (0.036)	ND (0.039)	ND (0.042)		
4-Chloroaniline	NC	NC	NC	NC	ND (0.011)		ND (0.012)	ND (0.013)	ND (0.013)		
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)		ND (0.011)	ND (0.012)	ND (0.013)		
4-Methylphenol	NC	NC	NC	NC	NA		NA	NA	NA		
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)		ND (0.014)	ND (0.015)	ND (0.016)		
4-Nitrophenol	NC	NC	NC	NC	ND (0.058)		ND (0.061)	ND (0.067)	ND (0.071)		
Acenaphthene	20	1,000	0.02	98	ND (0.0099)		ND (0.010)	ND (0.011)	ND (0.012)		
Acenaphthylene	100	1,000	NC	107	ND (0.011)		ND (0.012)	ND (0.013)	ND (0.013)		
Acetophenone	NC	NC	NC	NC	ND (0.0060)		ND (0.0063)	ND (0.0069)	ND (0.0074)		
Anthracene	100	1,000	NC	1,000	0.0197	J	ND (0.013)	ND (0.014)	ND (0.015)		
Atrazine	NC	NC	NC	NC	ND (0.0067)		ND (0.0071)	ND (0.0078)	ND (0.0083)		
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)		ND (0.0083)	ND (0.0091)	ND (0.0097)		
Benzo[a]anthracene	1	11	NC	1	0.0537		0.0404	ND (0.013)	ND (0.014)		
Benzo[a]pyrene	1	1	0.0026	22	0.0494		0.0419	ND (0.012)	ND (0.013)		
Benzo[b]fluoranthene	1	11	NC	2	0.0408		0.0388	ND (0.013)	ND (0.014)		
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0301	J	0.0258	J	ND (0.015)		
Benzo[k]fluoranthene	1	110	NC	2	0.0353		0.0217	J	ND (0.015)		
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)		ND (0.015)	ND (0.016)	ND (0.017)		
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)		ND (0.011)	ND (0.012)	ND (0.013)		
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	0.0482	J	ND (0.032)	ND (0.035)	ND (0.037)		
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.020)		ND (0.021)	ND (0.023)	ND (0.024)		
Caprolactam	NC	NC	NC	NC	ND (0.011)		ND (0.011)	ND (0.012)	ND (0.013)		
Carbazole	NC	NC	NC	NC	ND (0.016)		ND (0.017)	ND (0.018)	ND (0.019)		
Chrysene	1	110	NC	1	0.0537		0.0372	ND (0.013)	ND (0.014)		
Dibenz(a,h)anthracene	0	1	NC	1,000	ND (0.012)		ND (0.012)	ND (0.013)	ND (0.014)		
Dibenzofuran	7	1,000	NC	210	ND (0.010)		ND (0.011)	ND (0.012)	ND (0.013)		
Diethyl phthalate	NC	NC	NC	NC	ND (0.012)		ND (0.012)	ND (0.013)	ND (0.014)		
Dimethyl phthalate	NC	NC	NC	NC	ND (0.012)		ND (0.013)	ND (0.014)	ND (0.015)		
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0076)		ND (0.0080)	ND (0.0088)	ND (0.0093)		
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.017)		ND (0.018)	ND (0.019)	ND (0.021)		
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0040)		ND (0.0042)	ND (0.0046)	ND (0.0049)		
Fluoranthene	100	1,000	NC	1,000	0.0931		0.0615	0.0180	J	0.0194	J
Fluorene	30	1,000	0.03	386	ND (0.011)		ND (0.012)	ND (0.013)	ND (0.014)		
Hexachlorobenzene	0	12	NC	3	ND (0.011)		ND (0.012)	ND (0.013)	ND (0.014)		
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0095)		ND (0.010)	ND (0.011)	ND (0.012)		
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.035)		ND (0.037)	ND (0.040)	ND (0.043)		
Hexachloroethane	NC	NC	NC	NC	ND (0.0095)		ND (0.010)	ND (0.011)	ND (0.012)		
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.0330	J	0.0295	J	ND (0.014)	ND (0.015)	
Isophorone	NC	NC	NC	NC	ND (0.0092)		ND (0.0097)	ND (0.011)	ND (0.011)		
Naphthalene	12	1,000	NC	12	ND (0.0093)		ND (0.0098)	ND (0.011)	ND (0.011)		
Nitrobenzene	NC	NC	NC	NC	ND (0.0098)		ND (0.010)	ND (0.011)	ND (0.012)		
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0083)		ND (0.0088)	ND (0.0096)	ND (0.010)		
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.020)		ND (0.021)	ND (0.024)	ND (0.025)		
Pentachlorophenol	1	55	0.0008	1	ND (0.058)		ND (0.062)	ND (0.067)	ND (0.072)		
Phenanthrene	100	1,000	NC	1,000	0.0657		0.0177	J	ND (0.018)	ND (0.019)	
Phenol	0	1,000	0	0	ND (0.036)		ND (0.038)	ND (0.041)	ND (0.044)		
Pyrene	100	1,000	NC	1,000	0.0971		0.0775	0.0180	J	0.0214	J
Total SVOCs	NC	NC	NC	NC	0.62		0.39	0.04		0.04	

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5	
					Lab Sample ID	JB1189-1	JB1189-2	JB1030-7	JB1030-8	
Matrix					Sampling Date	3/8/2012	3/8/2012	3/7/2012	3/7/2012	
Units					Soil	Soil	Soil	Soil	Soil	
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)	NA	ND (0.010)	ND (0.012)	ND (0.012)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.042)	ND (0.034)	ND (0.040)	ND (0.041)	ND (0.041)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.047)	ND (0.038)	ND (0.045)	ND (0.046)	ND (0.046)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.038)	ND (0.031)	ND (0.037)	ND (0.038)	ND (0.038)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.065)	ND (0.053)	ND (0.063)	ND (0.064)	ND (0.064)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.068)	ND (0.056)	ND (0.065)	ND (0.067)	ND (0.067)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.049)	ND (0.040)	ND (0.047)	ND (0.049)	ND (0.049)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.014)	ND (0.017)	ND (0.017)	ND (0.017)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.015)	ND (0.015)	ND (0.015)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.012)	ND (0.012)	ND (0.012)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.041)	ND (0.033)	ND (0.039)	ND (0.040)	ND (0.040)	
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.023)	ND (0.018)	ND (0.022)	ND (0.022)	ND (0.022)	
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.046)	ND (0.038)	ND (0.044)	ND (0.045)	ND (0.045)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.018)	ND (0.015)	ND (0.017)	ND (0.018)	ND (0.018)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.043)	ND (0.035)	ND (0.041)	ND (0.042)	ND (0.042)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.051)	ND (0.042)	ND (0.049)	ND (0.051)	ND (0.051)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.010)	ND (0.0084)	ND (0.0099)	ND (0.010)	ND (0.010)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.016)	ND (0.016)	ND (0.016)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.049)	ND (0.040)	ND (0.047)	ND (0.049)	ND (0.049)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.012)	ND (0.014)	ND (0.014)	ND (0.014)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.033)	ND (0.039)	ND (0.040)	ND (0.040)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)	ND (0.012)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.015)	ND (0.016)	ND (0.016)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.068)	ND (0.056)	ND (0.066)	ND (0.067)	ND (0.067)	
Acenaphthene	20	1,000	0.02	98	ND (0.012)	ND (0.0096)	ND (0.011)	ND (0.012)	ND (0.012)	
Acenaphthylene	100	1,000	NC	107	0.0310	J	ND (0.011)	0.0538	0.0320	J
Acetophenone	NC	NC	NC	NC	ND (0.0071)	ND (0.0058)	ND (0.0069)	ND (0.0070)	ND (0.0070)	
Anthracene	100	1,000	NC	1,000	0.0194	J	ND (0.012)	ND (0.014)	0.0445	
Atrazine	NC	NC	NC	NC	ND (0.0080)	ND (0.0065)	ND (0.0077)	ND (0.0079)	ND (0.0079)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0093)	ND (0.0076)	ND (0.0090)	ND (0.0092)	ND (0.0092)	
Benzo[a]anthracene	1	11	NC	1	0.0546	ND (0.011)	0.0749	0.1290	0.1290	
Benzo[a]pyrene	1	1	0.0026	22	0.0712	ND (0.010)	0.0978	0.1320	0.1320	
Benzo[b]fluoranthene	1	11	NC	2	0.0858	ND (0.011)	0.0899	0.1140	0.1140	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0541	ND (0.012)	0.0871	0.0873	0.0873	
Benzo[k]fluoranthene	1	110	NC	2	0.0427	ND (0.012)	0.0869	0.0888	0.0888	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.016)	ND (0.016)	ND (0.016)	
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)	ND (0.012)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.036)	ND (0.029)	ND (0.034)	ND (0.035)	ND (0.035)	
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.023)	ND (0.019)	ND (0.023)	ND (0.023)	ND (0.023)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.012)	ND (0.013)	ND (0.013)	
Carbazole	NC	NC	NC	NC	ND (0.019)	ND (0.015)	ND (0.018)	ND (0.018)	ND (0.018)	
Chrysene	1	110	NC	1	0.0758	ND (0.011)	0.1150	0.1350	0.1350	
Dibenz(a,h)anthracene	0	1	NC	1,000	ND (0.014)	ND (0.011)	ND (0.013)	ND (0.014)	ND (0.014)	
Dibenzofuran	7	1,000	NC	210	ND (0.012)	ND (0.0098)	ND (0.012)	ND (0.012)	ND (0.012)	
Diethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.013)	ND (0.014)	ND (0.014)	
Dimethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)	ND (0.014)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0090)	ND (0.0073)	ND (0.0086)	ND (0.0089)	ND (0.0089)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.020)	ND (0.016)	ND (0.019)	ND (0.019)	ND (0.019)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0047)	ND (0.0038)	ND (0.0045)	ND (0.0046)	ND (0.0046)	
Fluoranthene	100	1,000	NC	1,000	0.0568	ND (0.015)	0.0678	0.1200	0.1200	
Fluorene	30	1,000	0.03	386	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.013)	
Hexachlorobenzene	0	12	NC	3	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.013)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.0092)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.041)	ND (0.034)	ND (0.040)	ND (0.041)	ND (0.041)	
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.0092)	ND (0.011)	ND (0.011)	ND (0.011)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.0622	ND (0.011)	0.0718	0.0701	0.0701	
Isophorone	NC	NC	NC	NC	ND (0.011)	ND (0.0089)	ND (0.010)	ND (0.011)	ND (0.011)	
Naphthalene	12	1,000	NC	12	ND (0.011)	ND (0.0090)	ND (0.011)	ND (0.011)	ND (0.011)	
Nitrobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.0096)	ND (0.011)	ND (0.012)	ND (0.012)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0099)	ND (0.0081)	ND (0.0095)	ND (0.0097)	ND (0.0097)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.024)	ND (0.020)	ND (0.023)	ND (0.024)	ND (0.024)	
Pentachlorophenol	1	55	0.0008	1	ND (0.069)	ND (0.057)	ND (0.067)	ND (0.068)	ND (0.068)	
Phenanthrene	100	1,000	NC	1,000	0.0214	J	ND (0.015)	ND (0.018)	0.0774	
Phenol	0	1,000	0	0	ND (0.042)	ND (0.035)	ND (0.041)	ND (0.042)	ND (0.042)	
Pyrene	100	1,000	NC	1,000	0.0581	ND (0.013)	0.0925	0.2460	0.2460	
Total SVOCs	NC	NC	NC	NC	0.633	ND	0.84	1.28	1.28	

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- NA - Not Analyzed
- NC - No Criterion
- ND (0.013) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
- * - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg					
Result	Result	Result	Result	Result					
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)	NA	ND (0.011)	ND (0.011)	ND (0.014)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.039)	ND (0.035)	ND (0.036)	ND (0.041)	ND (0.046)
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.044)	ND (0.040)	ND (0.041)	ND (0.051)	ND (0.051)
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.032)	ND (0.033)	ND (0.042)	ND (0.042)
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.062)	ND (0.055)	ND (0.056)	ND (0.071)	ND (0.071)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.064)	ND (0.058)	ND (0.059)	ND (0.074)	ND (0.074)
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.047)	ND (0.042)	ND (0.043)	ND (0.054)	ND (0.054)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.017)	ND (0.015)	ND (0.015)	ND (0.019)	ND (0.019)
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.017)	ND (0.017)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.014)
2-Chlorophenol	NC	NC	NC	NC	ND (0.039)	ND (0.035)	ND (0.035)	ND (0.045)	ND (0.045)
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.021)	0.0790	ND (0.020)	ND (0.025)	ND (0.025)
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.044)	ND (0.039)	ND (0.040)	ND (0.051)	ND (0.051)
2-Nitroaniline	NC	NC	NC	NC	ND (0.017)	ND (0.015)	ND (0.015)	ND (0.020)	ND (0.020)
2-Nitrophenol	NC	NC	NC	NC	ND (0.041)	ND (0.036)	ND (0.037)	ND (0.047)	ND (0.047)
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.049)	ND (0.044)	ND (0.044)	ND (0.056)	ND (0.056)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0097)	ND (0.0087)	ND (0.0089)	ND (0.011)	ND (0.011)
3-Nitroaniline	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.018)	ND (0.018)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.047)	ND (0.042)	ND (0.043)	ND (0.054)	ND (0.054)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.013)	ND (0.016)	ND (0.016)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.038)	ND (0.034)	ND (0.035)	ND (0.044)	ND (0.044)
4-Chloroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.014)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.013)	ND (0.013)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.017)	ND (0.017)
4-Nitrophenol	NC	NC	NC	NC	ND (0.065)	ND (0.058)	ND (0.059)	ND (0.075)	ND (0.075)
Acenaphthene	20	1,000	0.02	98	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.013)	ND (0.013)
Acenaphthylene	100	1,000	NC	107	0.0794	ND (0.011)	ND (0.011)	0.0415	0.0415
Acetophenone	NC	NC	NC	NC	ND (0.0067)	ND (0.0061)	ND (0.0062)	ND (0.0078)	ND (0.0078)
Anthracene	100	1,000	NC	1,000	0.0421	ND (0.012)	0.0476	0.0471	0.0471
Atrazine	NC	NC	NC	NC	ND (0.0075)	ND (0.0068)	ND (0.0069)	ND (0.0087)	ND (0.0087)
Benzaldehyde	NC	NC	NC	NC	ND (0.0088)	ND (0.0079)	ND (0.0081)	ND (0.010)	ND (0.010)
Benzo[a]anthracene	1	11	NC	1	0.1240	ND (0.011)	0.2150	0.1460	0.1460
Benzo[a]pyrene	1	1	0.0026	22	0.1640	ND (0.010)	0.1030	0.1240	0.1240
Benzo[b]fluoranthene	1	11	NC	2	0.1660	ND (0.011)	0.1220	0.0927	0.0927
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.1430	ND (0.013)	0.0472	0.0810	0.0810
Benzo[k]fluoranthene	1	110	NC	2	0.1500	ND (0.013)	0.1130	0.0892	0.0892
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.018)	ND (0.018)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.013)	ND (0.013)
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.034)	ND (0.030)	ND (0.031)	ND (0.039)	ND (0.039)
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.022)	ND (0.020)	ND (0.020)	ND (0.026)	ND (0.026)
Caprolactam	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.014)
Carbazole	NC	NC	NC	NC	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.021)	ND (0.021)
Chrysene	1	110	NC	1	0.1910	ND (0.012)	0.2090	0.1620	0.1620
Dibenz(a,h)anthracene	0	1	NC	1,000	0.0469	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.015)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.013)	ND (0.013)
Diethyl phthalate	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.015)
Dimethyl phthalate	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.016)	ND (0.016)
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0085)	ND (0.0076)	ND (0.0078)	ND (0.0098)	ND (0.0098)
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.019)	ND (0.017)	ND (0.017)	ND (0.022)	ND (0.022)
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0044)	ND (0.0040)	ND (0.0041)	ND (0.0051)	ND (0.0051)
Fluoranthene	100	1,000	NC	1,000	0.1230	ND (0.015)	0.4660	0.1710	0.1710
Fluorene	30	1,000	0.03	386	ND (0.013)	ND (0.011)	ND (0.011)	ND (0.015)	ND (0.015)
Hexachlorobenzene	0	12	NC	3	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.014)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.0096)	ND (0.0097)	ND (0.012)	ND (0.012)
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.039)	ND (0.035)	ND (0.036)	ND (0.045)	ND (0.045)
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.0096)	ND (0.0097)	ND (0.012)	ND (0.012)
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.1260	ND (0.012)	0.0521	0.0657	0.0657
Isophorone	NC	NC	NC	NC	ND (0.010)	ND (0.0093)	ND (0.0094)	ND (0.012)	ND (0.012)
Naphthalene	12	1,000	NC	12	0.0225	J 0.3340	ND (0.0096)	ND (0.012)	ND (0.012)
Nitrobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.0099)	ND (0.010)	ND (0.013)	ND (0.013)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0093)	ND (0.0084)	ND (0.0085)	ND (0.011)	ND (0.011)
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.023)	ND (0.021)	ND (0.021)	ND (0.026)	ND (0.026)
Pentachlorophenol	1	55	0.0008	1	ND (0.065)	ND (0.059)	ND (0.060)	ND (0.076)	ND (0.076)
Phenanthrene	100	1,000	NC	1,000	0.0675	ND (0.016)	0.1990	0.1080	0.1080
Phenol	0	1,000	0	0	ND (0.040)	ND (0.036)	ND (0.037)	ND (0.047)	ND (0.047)
Pyrene	100	1,000	NC	1,000	0.1510	ND (0.013)	0.4650	0.2940	0.2940
Total SVOCs	NC	NC	NC	NC	1.60	0.41	2.04	1.42	1.42

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012
					Matrix	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg					
Result	Result	Result	Result	Result					
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0092)	NA	ND (0.011)	ND (0.011)	ND (0.012)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.031)	ND (0.038)	ND (0.036)	ND (0.042)	ND (0.047)
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.043)	ND (0.040)	ND (0.047)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.028)	ND (0.035)	ND (0.033)	ND (0.038)	ND (0.065)
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.048)	ND (0.060)	ND (0.056)	ND (0.068)	ND (0.068)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.050)	ND (0.062)	ND (0.058)	ND (0.068)	ND (0.049)
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.036)	ND (0.045)	ND (0.042)	ND (0.049)	ND (0.018)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.015)	ND (0.018)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0093)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.041)
2-Chlorophenol	NC	NC	NC	NC	ND (0.030)	ND (0.037)	ND (0.035)	ND (0.041)	ND (0.022)
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.022)	ND (0.046)
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.034)	ND (0.042)	ND (0.040)	ND (0.048)	ND (0.018)
2-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.015)	ND (0.018)	ND (0.043)
2-Nitrophenol	NC	NC	NC	NC	ND (0.032)	ND (0.039)	ND (0.037)	ND (0.043)	ND (0.051)
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.038)	ND (0.047)	ND (0.044)	ND (0.051)	ND (0.010)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0076)	ND (0.0094)	ND (0.0088)	ND (0.010)	ND (0.016)
3-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.014)	ND (0.016)	ND (0.049)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.036)	ND (0.045)	ND (0.042)	ND (0.049)	ND (0.015)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.015)	ND (0.040)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.030)	ND (0.037)	ND (0.035)	ND (0.040)	ND (0.013)
4-Chloroaniline	NC	NC	NC	NC	ND (0.0096)	ND (0.012)	ND (0.011)	ND (0.013)	ND (0.012)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0090)	ND (0.011)	ND (0.010)	ND (0.012)	ND (0.012)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	ND (0.016)
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.014)	ND (0.016)	ND (0.068)
4-Nitrophenol	NC	NC	NC	NC	ND (0.051)	ND (0.063)	ND (0.059)	ND (0.068)	ND (0.012)
Acenaphthene	20	1,000	0.02	98	ND (0.0087)	ND (0.011)	ND (0.010)	ND (0.012)	0.0723
Acenaphthylene	100	1,000	NC	107	ND (0.0096)	0.0616	0.0281	J	0.0071
Acetophenone	NC	NC	NC	NC	ND (0.0053)	ND (0.0065)	ND (0.0061)	ND (0.0071)	0.0766
Anthracene	100	1,000	NC	1,000	ND (0.010)	0.0624	0.0171	J	0.0079
Atrazine	NC	NC	NC	NC	ND (0.0059)	ND (0.0073)	ND (0.0068)	ND (0.0093)	0.302
Benzaldehyde	NC	NC	NC	NC	ND (0.0069)	ND (0.0085)	ND (0.0080)	ND (0.0093)	0.340
Benzo[a]anthracene	1	11	NC	1	ND (0.0097)	0.1460	0.0638	0.0227	0.177
Benzo[a]pyrene	1	1	0.0026	22	ND (0.0091)	0.1400	0.0706	0.204	0.016
Benzo[b]fluoranthene	1	11	NC	2	ND (0.010)	0.1010	0.0771	0.227	0.012
Benzo[g,h,i]perylene	100	1,000	NC	1,000	ND (0.011)	0.0932	0.0583	0.177	0.016
Benzo[k]fluoranthene	1	110	NC	2	ND (0.011)	0.1080	0.0644	0.204	0.016
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.014)	ND (0.016)	0.012
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.0090)	ND (0.011)	ND (0.010)	ND (0.012)	0.036
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.026)	ND (0.033)	ND (0.031)	ND (0.036)	0.023
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.017)	ND (0.021)	ND (0.020)	ND (0.023)	0.013
Caprolactam	NC	NC	NC	NC	ND (0.0094)	ND (0.012)	ND (0.011)	ND (0.013)	0.019
Carbazole	NC	NC	NC	NC	ND (0.014)	ND (0.017)	ND (0.016)	ND (0.019)	0.323
Chrysene	1	110	NC	1	ND (0.010)	0.1610	0.077	0.0223	J
Dibenz(a,h)anthracene	0	1	NC	1,000	ND (0.010)	ND (0.013)	0.0223	J	0.0625
Dibenzofuran	7	1,000	NC	210	ND (0.0089)	ND (0.011)	ND (0.010)	ND (0.012)	0.014
Diethyl phthalate	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.012)	ND (0.014)	0.014
Dimethyl phthalate	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.014)	0.0089
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0066)	ND (0.0082)	ND (0.0077)	ND (0.0089)	0.020
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.015)	ND (0.018)	ND (0.017)	ND (0.020)	0.0047
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0035)	ND (0.0043)	ND (0.0040)	ND (0.0047)	0.351
Fluoranthene	100	1,000	NC	1,000	ND (0.013)	0.1240	0.0757	0.351	0.0167
Fluorene	30	1,000	0.03	386	ND (0.0098)	ND (0.012)	ND (0.011)	ND (0.013)	J
Hexachlorobenzene	0	12	NC	3	ND (0.0097)	ND (0.012)	ND (0.011)	ND (0.013)	0.011
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0083)	ND (0.010)	ND (0.0096)	ND (0.011)	0.011
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.030)	ND (0.038)	ND (0.035)	ND (0.041)	0.011
Hexachloroethane	NC	NC	NC	NC	ND (0.0083)	ND (0.010)	ND (0.0096)	ND (0.011)	0.1630
Indeno[1,2,3-cd]pyrene	1	11	NC	8	ND (0.010)	0.0778	0.0532	0.1630	0.011
Isophorone	NC	NC	NC	NC	ND (0.0080)	ND (0.010)	ND (0.0093)	ND (0.011)	0.0193
Naphthalene	12	1,000	NC	12	ND (0.0082)	ND (0.010)	0.049	0.0193	J
Nitrobenzene	NC	NC	NC	NC	ND (0.0086)	ND (0.011)	ND (0.010)	ND (0.012)	0.0098
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0073)	ND (0.0090)	ND (0.0085)	ND (0.0098)	0.024
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.018)	ND (0.022)	ND (0.021)	ND (0.024)	0.069
Pentachlorophenol	1	55	0.0008	1	ND (0.051)	ND (0.063)	ND (0.059)	ND (0.069)	0.126
Phenanthrene	100	1,000	NC	1,000	ND (0.014)	0.1190	0.0249	J	0.042
Phenol	0	1,000	0	0	ND (0.031)	ND (0.039)	ND (0.036)	ND (0.042)	0.495
Pyrene	100	1,000	NC	1,000	ND (0.011)	0.3050	0.0711	0.495	2.96
Total SVOCs	NC	NC	NC	NC	ND	1.50	0.75	2.96	

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NA - Not Analyzed
NC - No Criterion
ND (0.013) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
Matrix					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
Units					Soil	Soil	Soil	Soil	Soil
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					Result	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.013)	NA	ND (0.015)	ND (0.010)	ND (0.014)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.042)	ND (0.049)	ND (0.034)	ND (0.048)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.048)	ND (0.055)	ND (0.039)	ND (0.055)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.039)	ND (0.045)	ND (0.031)	ND (0.044)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.066)	ND (0.077)	ND (0.053)	ND (0.076)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.069)	ND (0.080)	ND (0.056)	ND (0.079)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.050)	ND (0.058)	ND (0.041)	ND (0.057)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.021)	ND (0.015)	ND (0.021)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.018)	ND (0.013)	ND (0.018)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.010)	ND (0.015)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.041)	ND (0.048)	ND (0.034)	ND (0.048)	
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.023)	ND (0.027)	ND (0.019)	0.0765	J
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.047)	ND (0.054)	ND (0.038)	ND (0.054)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.018)	ND (0.021)	ND (0.015)	ND (0.021)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.044)	ND (0.051)	ND (0.035)	ND (0.050)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.052)	ND (0.061)	ND (0.042)	ND (0.060)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.0084)	ND (0.012)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.019)	ND (0.013)	ND (0.019)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.050)	ND (0.058)	ND (0.041)	ND (0.057)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.017)	ND (0.012)	ND (0.017)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.048)	ND (0.033)	ND (0.047)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.011)	ND (0.015)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.010)	ND (0.014)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.019)	ND (0.013)	ND (0.018)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.069)	ND (0.081)	ND (0.056)	ND (0.080)	
Acenaphthene	20	1,000	0.02	98	ND (0.012)	ND (0.014)	0.0246	J	0.1640
Acenaphthylene	100	1,000	NC	107	0.107	0.0586	ND (0.011)	0.1890	
Acetophenone	NC	NC	NC	NC	ND (0.0072)	ND (0.0084)	ND (0.0058)	ND (0.0083)	
Anthracene	100	1,000	NC	1,000	0.0545	0.0839	0.0645	0.3550	
Atrazine	NC	NC	NC	NC	ND (0.0081)	ND (0.0094)	ND (0.0065)	ND (0.0093)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0094)	ND (0.011)	ND (0.0076)	ND (0.011)	
Benzo[a]anthracene	1	11	NC	1	0.118	0.192	0.1140	0.8440	
Benzo[a]pyrene	1	1	0.0026	22	0.16	0.198	0.0830	0.7570	
Benzo[b]fluoranthene	1	11	NC	2	0.139	0.17	0.0883	0.5800	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.132	0.126	0.0328	J	0.3770
Benzo[k]fluoranthene	1	110	NC	2	0.0987	0.132	0.0405	0.4180	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.017)	ND (0.019)	ND (0.013)	ND (0.019)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.010)	ND (0.014)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	ND (0.036)	0.440	ND (0.029)	0.1420	
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.024)	ND (0.028)	ND (0.019)	ND (0.027)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.010)	ND (0.015)	
Carbazole	NC	NC	NC	NC	ND (0.019)	ND (0.022)	0.0169	J	ND (0.022)
Chrysene	1	110	NC	1	0.155	0.196	0.1080	0.9770	
Dibenz(a,h)anthracene	0	1	NC	1,000	0.0455	0.0446	J	ND (0.011)	0.1450
Dibenzofuran	7	1,000	NC	210	ND (0.012)	ND (0.014)	ND (0.0099)	0.0352	J
Diethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.016)	ND (0.011)	ND (0.016)	
Dimethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.017)	0.0365	J	0.0485
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0091)	ND (0.011)	ND (0.0074)	ND (0.010)	J
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.020)	ND (0.023)	ND (0.016)	ND (0.023)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0048)	ND (0.0055)	ND (0.0039)	ND (0.0055)	
Fluoranthene	100	1,000	NC	1,000	0.118	0.251	0.2400	1.3700	
Fluorene	30	1,000	0.03	386	ND (0.013)	ND (0.016)	0.0202	J	0.0915
Hexachlorobenzene	0	12	NC	3	ND (0.013)	ND (0.016)	ND (0.011)	ND (0.015)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.0092)	ND (0.013)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.042)	ND (0.049)	ND (0.034)	ND (0.048)	
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.0092)	ND (0.013)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.109	0.11	0.0291	0.3320	
Isophorone	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.0089)	ND (0.013)	
Naphthalene	12	1,000	NC	12	ND (0.011)	0.0689	ND (0.0091)	0.0887	
Nitrobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.0096)	ND (0.014)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.0081)	ND (0.011)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.025)	ND (0.028)	ND (0.020)	ND (0.028)	
Pentachlorophenol	1	55	0.0008	1	ND (0.070)	ND (0.082)	ND (0.057)	ND (0.080)	
Phenanthrene	100	1,000	NC	1,000	0.0652	0.0767	0.2290	0.3230	
Phenol	0	1,000	0	0	ND (0.043)	ND (0.050)	ND (0.035)	ND (0.049)	
Pyrene	100	1,000	NC	1,000	0.15	0.273	0.2650	1.6900	
Total SVOCs	NC	NC	NC	NC	1.45	2.42	1.39	9.00	

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7
					Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2
					Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012
					Matrix	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg					
Result	Result	Result	Result	Result					
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.017)	ND (0.014)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.043)	ND (0.052)	ND (0.056)	ND (0.047)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.048)	ND (0.058)	ND (0.063)	ND (0.053)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.039)	ND (0.047)	ND (0.051)	ND (0.043)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.067)	ND (0.081)	ND (0.087)	ND (0.074)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.070)	ND (0.084)	ND (0.091)	ND (0.077)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.051)	ND (0.061)	ND (0.066)	ND (0.056)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.022)	ND (0.024)	ND (0.020)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.019)	ND (0.021)	ND (0.018)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.017)	ND (0.014)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.042)	ND (0.051)	ND (0.055)	ND (0.046)	
2-Methylnaphthalene	NC	NC	NC	NC	0.0260	ND (0.028)	ND (0.030)	ND (0.028)	
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.047)	ND (0.057)	ND (0.062)	ND (0.052)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.020)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.044)	ND (0.053)	ND (0.057)	ND (0.049)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.053)	ND (0.064)	ND (0.069)	ND (0.058)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.014)	ND (0.012)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.017)	ND (0.020)	ND (0.022)	ND (0.018)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.051)	ND (0.061)	ND (0.066)	ND (0.056)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.018)	ND (0.020)	ND (0.017)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.050)	ND (0.054)	ND (0.046)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.017)	ND (0.015)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.016)	ND (0.014)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.020)	ND (0.021)	ND (0.018)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.070)	ND (0.085)	ND (0.092)	ND (0.078)	
Acenaphthene	20	1,000	0.02	98	ND (0.012)	0.0334	ND (0.016)	0.0191	
Acenaphthylene	100	1,000	NC	107	0.1220	0.0631	0.0899	0.0838	
Acetophenone	NC	NC	NC	NC	ND (0.0073)	ND (0.0088)	ND (0.0095)	ND (0.0081)	
Anthracene	100	1,000	NC	1,000	0.0830	0.1190	0.0811	0.1620	
Atrazine	NC	NC	NC	NC	ND (0.0082)	ND (0.0099)	ND (0.011)	ND (0.0091)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0095)	ND (0.012)	ND (0.012)	ND (0.011)	
Benzo[a]anthracene	1	11	NC	1	0.2830	0.2490	0.2230	0.3320	
Benzo[a]pyrene	1	1	0.0026	22	0.2990	0.2290	0.2530	0.3380	
Benzo[b]fluoranthene	1	11	NC	2	0.3120	0.1960	0.2880	0.3580	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.2260	0.1460	0.1590	0.2070	
Benzo[k]fluoranthene	1	110	NC	2	0.2220	0.1610	0.0831	0.2020	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.017)	ND (0.020)	ND (0.022)	ND (0.019)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.016)	ND (0.014)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	0.0561	0.1640	0.1460	ND (0.041)	
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.024)	ND (0.029)	ND (0.031)	ND (0.027)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.017)	ND (0.014)	
Carbazole	NC	NC	NC	NC	ND (0.019)	ND (0.023)	ND (0.025)	0.0248	
Chrysene	1	110	NC	1	0.3990	0.2760	0.3070	0.3250	
Dibenz(a,h)anthracene	0	1	NC	1,000	0.0829	0.0423	0.0417	0.0912	
Dibenzofuran	7	1,000	NC	210	ND (0.012)	ND (0.015)	ND (0.016)	ND (0.014)	
Diethyl phthalate	NC	NC	NC	NC	ND (0.014)	ND (0.017)	ND (0.018)	ND (0.016)	
Dimethyl phthalate	NC	NC	NC	NC	0.0866	ND (0.018)	0.1450	ND (0.016)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.0092)	ND (0.011)	0.057	ND (0.010)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.020)	ND (0.024)	ND (0.026)	ND (0.022)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0048)	ND (0.0058)	ND (0.0063)	ND (0.0053)	
Fluoranthene	100	1,000	NC	1,000	0.3210	0.3890	0.3030	0.4260	
Fluorene	30	1,000	0.03	386	ND (0.014)	0.0342	0.0244	0.0361	
Hexachlorobenzene	0	12	NC	3	ND (0.014)	ND (0.016)	ND (0.018)	ND (0.015)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.015)	ND (0.013)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.042)	ND (0.051)	ND (0.055)	ND (0.047)	
Hexachloroethane	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.015)	ND (0.013)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.1990	0.1250	0.1310	0.1910	
Isophorone	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.015)	ND (0.012)	
Naphthalene	12	1,000	NC	12	0.0302	0.0809	ND (0.015)	0.0821	
Nitrobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.016)	ND (0.013)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.013)	ND (0.011)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.025)	ND (0.030)	ND (0.032)	ND (0.027)	
Pentachlorophenol	1	55	0.0008	1	ND (0.071)	ND (0.086)	ND (0.093)	ND (0.079)	
Phenanthrene	100	1,000	NC	1,000	0.0903	0.1330	0.0678	0.1480	
Phenol	0	1,000	0	0	ND (0.043)	ND (0.053)	ND (0.057)	ND (0.048)	
Pyrene	100	1,000	NC	1,000	0.3940	0.4060	0.3520	0.5820	
Total SVOCs	NC	NC	NC	NC	3.23	2.85	2.75	3.61	

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- NA - Not Analyzed
- NC - No Criterion
- ND (0.013) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
- * - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.017)	ND (0.032)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.057)	ND (0.11)	
2,4,5-Trichlorophenol	NC	NC	NC	NC	ND (0.064)	ND (0.12)	
2,4,6-Trichlorophenol	NC	NC	NC	NC	ND (0.052)	ND (0.098)	
2,4-Dichlorophenol	NC	NC	NC	NC	ND (0.089)	ND (0.17)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.093)	ND (0.18)	
2,4-Dinitrophenol	NC	NC	NC	NC	ND (0.067)	ND (0.13)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.024)	ND (0.046)	
2,6-Dinitrotoluene	NC	NC	NC	NC	ND (0.021)	ND (0.040)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.017)	ND (0.032)	
2-Chlorophenol	NC	NC	NC	NC	ND (0.056)	ND (0.11)	
2-Methylnaphthalene	NC	NC	NC	NC	ND (0.031)	0.12	J
2-Methylphenol (o-cresol)	0	1,000	NC	330	ND (0.063)	ND (0.12)	
2-Nitroaniline	NC	NC	NC	NC	ND (0.024)	ND (0.046)	
2-Nitrophenol	NC	NC	NC	NC	ND (0.059)	ND (0.11)	
3 & 4 Methylphenol (m&p-cresol)	0	1,000	NC	330	ND (0.070)	ND (0.13)	
3,3-Dichlorobenzidine	NC	NC	NC	NC	ND (0.014)	ND (0.027)	
3-Nitroaniline	NC	NC	NC	NC	ND (0.022)	ND (0.042)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.067)	ND (0.13)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.020)	ND (0.038)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.10)	
4-Chloroaniline	NC	NC	NC	NC	ND (0.018)	ND (0.033)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.017)	ND (0.031)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.022)	ND (0.041)	
4-Nitrophenol	NC	NC	NC	NC	ND (0.093)	ND (0.18)	
Acenaphthene	20	1,000	0.02	98	ND (0.016)	0.17	
Acenaphthylene	100	1,000	NC	107	0.09	0.27	
Acetophenone	NC	NC	NC	NC	ND (0.0097)	ND (0.018)	
Anthracene	100	1,000	NC	1,000	0.20	0.52	
Atrazine	NC	NC	NC	NC	ND (0.011)	ND (0.021)	
Benzaldehyde	NC	NC	NC	NC	ND (0.013)	ND (0.024)	
Benzo[a]anthracene	1	11	NC	1	0.28	1.03	
Benzo[a]pyrene	1	1	0.0026	22	0.24	0.95	
Benzo[b]fluoranthene	1	11	NC	2	0.18	0.88	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.16	0.57	
Benzo[k]fluoranthene	1	110	NC	2	0.20	0.52	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.022)	ND (0.042)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.017)	ND (0.031)	
Bis(2-ethylhexyl) phthalate	NC	NC	NC	NC	0.34	418	
Butyl benzyl phthalate	NC	NC	NC	NC	ND (0.032)	ND (0.061)	
Caprolactam	NC	NC	NC	NC	ND (0.017)	ND (0.033)	
Carbazole	NC	NC	NC	NC	ND (0.026)	0.07	J
Chrysene	1	110	NC	1	0.38	1.24	
Dibenz(a,h)anthracene	0	1	NC	1,000	0.05	0.27	J
Dibenzofuran	7	1,000	NC	210	ND (0.016)	0.09	J
Diethyl phthalate	NC	NC	NC	NC	ND (0.019)	1.13	
Dimethyl phthalate	NC	NC	NC	NC	0.25	ND (0.037)	
Di-n-butyl phthalate	NC	NC	NC	NC	ND (0.012)	ND (0.023)	
Di-n-octyl phthalate	NC	NC	NC	NC	ND (0.027)	ND (0.051)	
Diphenyl (1,1'-Biphenyl)	NC	NC	NC	NC	ND (0.0064)	ND (0.012)	
Fluoranthene	100	1,000	NC	1,000	0.56	1.67	
Fluorene	30	1,000	0.03	386	ND (0.018)	0.18	
Hexachlorobenzene	0	12	NC	3	ND (0.018)	ND (0.034)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.015)	ND (0.029)	
Hexachlorocyclopentadiene	NC	NC	NC	NC	ND (0.056)	ND (0.11)	
Hexachloroethane	NC	NC	NC	NC	ND (0.015)	ND (0.029)	
Indeno[1,2,3-cd]pyrene	1	11	NC	8	0.12	0.48	
Isophorone	NC	NC	NC	NC	ND (0.015)	ND (0.028)	
Naphthalene	12	1,000	NC	12	0.03	0.13	J
Nitrobenzene	NC	NC	NC	NC	ND (0.016)	ND (0.030)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.013)	ND (0.025)	
N-Nitrosodiphenylamine	NC	NC	NC	NC	ND (0.033)	ND (0.062)	
Pentachlorophenol	1	55	0.0008	1	ND (0.095)	ND (0.18)	
Phenanthrene	100	1,000	NC	1,000	0.07	0.57	
Phenol	0	1,000	0	0	ND (0.058)	ND (0.11)	
Pyrene	100	1,000	NC	1,000	0.67	1.95	
Total SVOCs	NC	NC	NC	NC	3.82	430.81	

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA - Not Analyzed

NC - No Criterion

ND (0.013) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1H-ENV-1W/2	1R-22.1H-ENV-1W/6	1R-22.1-ENV-3W/1	1R-22.1-ENV-3W/6
					Lab Sample ID	JA80082-3	JA80082-4	JA80082-1	JA80082-2
					Sampling Date	7/5/2011	7/5/2011	7/5/2011	7/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.2)	ND (6.2)	ND (3.5)	ND (2.3)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	127	355	278	19.5

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6
					Lab Sample ID	JA80291-3	JA80291-4	JA80291-1	JA80291-2
					Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.3)	ND (2.2)	ND (3.8)	ND (4.4)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	277	ND (11)	852	364

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
					Result	Result	Result	Result	Result
					Equivalent Carbon Range				
					Unrestricted Use SCO	NC	NC	NC	NC
					Industrial SCO	NC	NC	NC	NC
					Protection of Ecological Resources	NC	NC	NC	NC
					Protection of Groundwater SCO	NC	NC	NC	NC
					TPH-GRO (C6-C10)	ND (2.4)	ND (2.5)	ND (2.3)	56.6
					TPH-DRO (C10-C44)	214	467	23.9	1360

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.5)	ND (2.5)	ND (3.3)	ND (3.5)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	71	122	305	1350

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-10/2	1R-22.1-ENV-10/6	1R-22.1-ENV-11/2	1R-22.1-ENV-11/7.5
					Lab Sample ID	JB1189-1	JB1189-2	JB1030-7	JB1030-8
					Sampling Date	3/8/2012	3/8/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.3)	ND (2.3)	ND (3.1)	ND (3.5)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	662	68.7	212	196

Notes:

NC - No Criterion
 ND (3.5) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.1)	ND (2.6)	ND (2.5)	ND (3.7)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	195	17.9	98.6	153

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-14/2	1R-22.1-ENV-14/7	1R-22.1-ENV-15/1	1R-22.1-ENV-15/7.5
					Lab Sample ID	JB1030-1	JB1030-2	JB1327-3	JB1327-4
					Sampling Date	3/7/2012	3/7/2012	3/9/2012	3/9/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.0)	ND (3.0)	ND (2.6)	ND (3.3)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	ND (10)	147	287	559

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-16/2	1R-22.1-ENV-16/5	1R-22.1-ENV-17/0-4	1R-22.1-ENV-17/4-8
					Lab Sample ID	JB1327-1	JB1327-2	JB16942-5	JB16942-6
					Sampling Date	3/9/2012	3/9/2012	9/19/2012	9/19/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.6)	ND (3.9)	ND (1.1)	54.6
	TPH-DRO (C10-C44)	NC	NC	NC	NC	871	934	32.5	1160

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7
					Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2
					Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.7)	ND (2.3)	58.5	ND (2.0)
	TPH-DRO (C10-C44)	NC	NC	NC	NC	1690	1070	3220	626

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.3)	123
	TPH-DRO (C10-C44)	NC	NC	NC	NC	3170	5180

Notes:

- NC - No Criterion
- ND (3.5) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	1R-22.1H-ENV-1W/2				1R-22.1H-ENV-1W/6				1R-22.1-ENV-3W/1				1R-22.1-ENV-3W/6			
	Lab Sample ID		JA80082-3		JA80082-4		JA80082-1		JA80082-2		JA80082-1		JA80082-2		JA80082-2	
Sampling Date	7/5/2011				7/5/2011				7/5/2011				7/5/2011			
Matrix	Soil				Soil				Soil				Soil			
Units	mg/kg				mg/kg				mg/kg				mg/kg			
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result		Result					
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00030)	ND (0.047)	ND (0.00035)	ND (0.00026)								
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00022)	ND (0.035)	ND (0.00026)	ND (0.00019)								
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00054)	ND (0.084)	ND (0.00062)	ND (0.00046)								
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00027)	ND (0.042)	ND (0.00031)	ND (0.00023)								
1,1-Dichloroethane	0.33	1,000	NC	0.33	ND (0.00076)	ND (0.12)	ND (0.00088)	ND (0.00066)								
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00054)	ND (0.085)	ND (0.00063)	ND (0.00047)								
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00042)	ND (0.066)	ND (0.00049)	ND (0.00037)								
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA								
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0019)	ND (0.29)	ND (0.0022)	ND (0.0016)								
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.046)	ND (0.00034)	ND (0.00026)								
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00034)	ND (0.054)	ND (0.00040)	ND (0.00030)								
1,2-Dichloroethane	0.02	60	0.1	0.02	ND (0.00023)	ND (0.035)	ND (0.00026)	ND (0.00020)								
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00033)	ND (0.052)	ND (0.00038)	ND (0.00029)								
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA								
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00024)	ND (0.037)	ND (0.00028)	ND (0.00021)								
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00021)	ND (0.033)	ND (0.00024)	ND (0.00018)								
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.072)	ND (11)	ND (0.083)	ND (0.062)								
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0054)	ND (0.84)	ND (0.0062)	ND (0.0046)								
2-Hexanone	NC	NC	NC	NC	ND (0.0031)	ND (0.48)	ND (0.0036)	ND (0.0027)								
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0033)	ND (0.51)	ND (0.0038)	ND (0.0028)								
Acetone	0.05	1,000	0.002	0.05	ND (0.0082)	ND (1.3)	ND (0.0095)	ND (0.0071)								
Acrolein	NC	NC	NC	NC	NA	NA	NA	NA								
Acrylonitrile	NC	NC	NC	NC	NA	NA	NA	NA								
Benzene	0.06	89	0.07	0.06	ND (0.00016)	ND (0.026)	ND (0.00019)	ND (0.00014)								
Bromochloromethane	NC	NC	NC	NC	ND (0.00064)	ND (0.10)	ND (0.00074)	ND (0.00056)								
Bromodichloromethane	NC	NC	NC	NC	ND (0.00028)	ND (0.043)	ND (0.00032)	ND (0.00024)								
Bromofrom	NC	NC	NC	NC	ND (0.00093)	ND (0.15)	ND (0.0011)	ND (0.00081)								
Bromomethane	NC	NC	NC	NC	ND (0.00049)	ND (0.076)	ND (0.00056)	ND (0.00042)								
Carbon disulfide	NC	NC	NC	NC	ND (0.00024)	ND (0.038)	ND (0.00028)	ND (0.00021)								
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00043)	ND (0.067)	ND (0.00050)	ND (0.00037)								
Chlorobenzene	1	1,000	0.04	1	ND (0.00040)	ND (0.062)	ND (0.00046)	ND (0.00035)								
Chloroethane	NC	NC	NC	NC	ND (0.00050)	ND (0.079)	ND (0.00058)	ND (0.00044)								
Chloroform	0.37	700	0.012	0.37	ND (0.00060)	ND (0.094)	ND (0.00069)	ND (0.00052)								
Chloromethane	NC	NC	NC	NC	ND (0.00077)	ND (0.12)	ND (0.00089)	ND (0.00067)								
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00040)	ND (0.062)	ND (0.00046)	ND (0.00035)								
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.029)	ND (0.00022)	ND (0.00016)								
Cyclohexane	NC	NC	NC	NC	ND (0.00047)	ND (0.074)	ND (0.00054)	ND (0.00041)								
Dibromochloromethane	NC	NC	NC	NC	ND (0.00021)	ND (0.033)	ND (0.00024)	ND (0.00018)								
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00040)	ND (0.062)	ND (0.00046)	ND (0.00034)								
Ethylbenzene	1	780	NC	1	ND (0.00018)	ND (0.029)	ND (0.00021)	ND (0.00016)								
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.00089)	ND (0.14)	ND (0.0010)	ND (0.00077)								
Isopropylbenzene	NC	NC	NC	NC	ND (0.00017)	ND (0.027)	ND (0.00020)	ND (0.00015)								
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00039)	ND (0.061)	ND (0.00045)	ND (0.00034)								
Methyl acetate	NC	NC	NC	NC	ND (0.0027)	ND (0.43)	ND (0.0032)	ND (0.0024)								
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.048)	ND (0.00035)	ND (0.00026)								
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00028)	ND (0.045)	ND (0.00033)	ND (0.00025)								
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.035)	ND (0.00026)	ND (0.00019)								
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA								
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA								
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00023)	ND (0.036)	ND (0.00026)	ND (0.00020)								
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA								
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA								
Styrene	NC	NC	NC	NC	ND (0.00023)	ND (0.036)	ND (0.00027)	ND (0.00020)								
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA								
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00024)	ND (0.037)	ND (0.00027)	ND (0.00020)								
Toluene	0.7	1,000	0.036	0.7	ND (0.00047)	ND (0.073)	ND (0.00054)	ND (0.00041)								
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00052)	ND (0.082)	ND (0.00061)	ND (0.00046)								
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00042)	ND (0.065)	ND (0.00048)	ND (0.00036)								
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00031)	ND (0.048)	ND (0.00035)	ND (0.00027)								
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00060)	ND (0.093)	ND (0.00069)	ND (0.00052)								
Vinyl chloride	0.02	27	NC	0.02	ND (0.00057)	ND (0.089)	ND (0.00066)	ND (0.00049)								
Xylene (total)	0.26	1,000	0.26	1.6	NA	NA	NA	NA								
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND								

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA - Not Analyzed
NC - No Criterion
ND (0.00035) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

		Sample ID	1R-22.1-ENV-4/1	1R-22.1-ENV-4/5	1R-22.1-ENV-5/1	1R-22.1-ENV-5/6		
		Lab Sample ID	JA80291-3	JA80291-4	JA80291-1	JA80291-2		
		Sampling Date	7/7/2011	7/7/2011	7/7/2011	7/7/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00039)	ND (0.00025)	ND (0.00042)	ND (0.00049)
1,1,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00019)	ND (0.00031)	ND (0.00037)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00071)	ND (0.00045)	ND (0.00075)	ND (0.00089)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00036)	ND (0.00023)	ND (0.00038)	ND (0.00045)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.0010)	ND (0.00064)	ND (0.0011)	ND (0.0013)
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00072)	ND (0.00046)	ND (0.00076)	ND (0.00090)
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00056)	ND (0.00036)	ND (0.00059)	ND (0.00070)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0025)	ND (0.0016)	ND (0.0026)	ND (0.0031)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00025)	ND (0.00041)	ND (0.00049)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00045)	ND (0.00029)	ND (0.00048)	ND (0.00057)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00030)	ND (0.00019)	ND (0.00032)	ND (0.00037)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00044)	ND (0.00028)	ND (0.00046)	ND (0.00054)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00031)	ND (0.00020)	ND (0.00033)	ND (0.00039)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00028)	ND (0.00018)	ND (0.00030)	ND (0.00035)
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.0095)	ND (0.061)	ND (0.10)	ND (0.12)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0071)	ND (0.0045)	ND (0.0075)	ND (0.0089)
2-Hexanone	NC	NC	NC	NC	ND (0.0041)	ND (0.0026)	ND (0.0043)	ND (0.0051)
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0043)	ND (0.0027)	ND (0.0046)	ND (0.0054)
Acetone	0.05	1,000	0.002	0.05	ND (0.011)	ND (0.0069)	0.214	0.0233
Acrolein	NC	NC	NC	NC	NA	NA	NA	NA
Acrylonitrile	NC	NC	NC	NC	NA	NA	NA	NA
Benzene	0.06	89	0.07	0.06	ND (0.00022)	ND (0.00014)	ND (0.00023)	ND (0.00027)
Bromochloromethane	NC	NC	NC	NC	ND (0.00085)	ND (0.00054)	ND (0.00090)	ND (0.0011)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00023)	ND (0.00039)	ND (0.00046)
Bromoform	NC	NC	NC	NC	ND (0.0012)	ND (0.00079)	ND (0.0013)	ND (0.0015)
Bromomethane	NC	NC	NC	NC	ND (0.00064)	ND (0.00041)	ND (0.00068)	ND (0.00081)
Carbon disulfide	NC	NC	NC	NC	ND (0.00032)	0.00026	J	ND (0.00034)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00057)	ND (0.00036)	ND (0.00060)	ND (0.00071)
Chlorobenzene	1	1,000	0.04	1	ND (0.00053)	ND (0.00034)	ND (0.00056)	ND (0.00066)
Chloroethane	NC	NC	NC	NC	ND (0.00067)	ND (0.00042)	ND (0.00071)	ND (0.00083)
Chloroform	0.37	700	0.012	0.37	ND (0.00079)	ND (0.00050)	ND (0.00084)	ND (0.00099)
Chloromethane	NC	NC	NC	NC	ND (0.0010)	ND (0.00065)	ND (0.0011)	ND (0.0013)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00053)	ND (0.00034)	ND (0.00056)	ND (0.00066)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00025)	ND (0.00016)	ND (0.00026)	ND (0.00031)
Cyclohexane	NC	NC	NC	NC	ND (0.00062)	ND (0.00039)	ND (0.00066)	ND (0.00078)
Dibromochloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00017)	ND (0.00029)	ND (0.00034)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00033)	ND (0.00056)	ND (0.00066)
Ethylbenzene	1	780	NC	1	ND (0.00024)	ND (0.00015)	ND (0.00026)	ND (0.00030)
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.0012)	ND (0.00075)	ND (0.0012)	ND (0.0015)
Isopropylbenzene	NC	NC	NC	NC	ND (0.00022)	ND (0.00014)	ND (0.00024)	ND (0.00028)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00051)	ND (0.00033)	ND (0.00055)	ND (0.00064)
Methyl acetate	NC	NC	NC	NC	ND (0.0036)	ND (0.0023)	ND (0.0039)	ND (0.0045)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00040)	ND (0.00026)	ND (0.00043)	ND (0.00050)
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00038)	ND (0.00024)	ND (0.00040)	ND (0.00047)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00029)	ND (0.00019)	ND (0.00031)	ND (0.00037)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00030)	ND (0.00019)	ND (0.00032)	ND (0.00038)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	NC	NC	ND (0.00030)	ND (0.00019)	ND (0.00032)	ND (0.00038)
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00031)	ND (0.00020)	ND (0.00033)	ND (0.00039)
Toluene	0.7	1,000	0.036	0.7	ND (0.00062)	ND (0.00039)	ND (0.00066)	ND (0.00077)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00069)	ND (0.00044)	ND (0.00074)	ND (0.00087)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00055)	ND (0.00035)	ND (0.00058)	ND (0.00069)
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00040)	ND (0.00026)	ND (0.00043)	ND (0.00051)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00079)	ND (0.00050)	ND (0.00084)	ND (0.00099)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00075)	ND (0.00048)	ND (0.00080)	ND (0.00094)
Xylene (total)	0.26	1,000	0.26	1.6	NA	NA	NA	NA
Total VOCs	NC	NC	NC	NC	ND	0.00026	J	0.214
								0.028

Notes:
 mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-6W/4	1R-22.1-ENV-6W/5	1R-22.1-ENV-7/2	1R-22.1-ENV-7/5
					Lab Sample ID	JA80169-1	JA80169-2	3/8/2012	3/8/2012
					Sampling Date	7/6/2011	7/6/2011	JB1189-7	JB1189-8
					Matrix	Soil	Soil	Soil	Soil
Units	mg/kg		mg/kg	mg/kg	mg/kg				
Result	Result	Result	Result	Result	Result				
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00027)	ND (0.00028)	ND (0.00026)	ND (0.0010)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00021)	ND (0.00019)	ND (0.00076)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00050)	ND (0.00046)	ND (0.0018)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00025)	ND (0.00023)	ND (0.00092)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00069)	ND (0.00071)	ND (0.00065)	ND (0.0026)	
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00049)	ND (0.00051)	ND (0.00047)	ND (0.0019)	
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00038)	ND (0.00039)	ND (0.00036)	ND (0.0014)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0017)	ND (0.0016)	ND (0.0064)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00025)	ND (0.0010)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)	ND (0.00032)	ND (0.00030)	ND (0.0012)	
1,2-Dichloroethane	0.02	60	0.1	0.02	ND (0.00020)	ND (0.00021)	ND (0.00019)	ND (0.00077)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00030)	ND (0.00031)	ND (0.00028)	ND (0.0011)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00022)	ND (0.00020)	ND (0.00081)	
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00019)	ND (0.00020)	ND (0.00018)	ND (0.00072)	
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.065)	ND (0.067)	ND (0.062)	ND (0.25)	
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0049)	ND (0.0050)	ND (0.0046)	0.136	
2-Hexanone	NC	NC	NC	NC	ND (0.0028)	ND (0.0029)	ND (0.0026)	ND (0.010)	
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0030)	ND (0.0030)	ND (0.0028)	ND (0.011)	
Acetone	0.05	1,000	0.002	0.05	ND (0.0074)	ND (0.0077)	ND (0.0071)	0.367	
Acrolein	NC	NC	NC	NC	NA	NA	ND (0.016)	ND (0.063)	
Acrylonitrile	NC	NC	NC	NC	NA	NA	ND (0.0071)	ND (0.028)	
Benzene	0.06	89	0.07	0.06	ND (0.00015)	ND (0.00015)	ND (0.00014)	ND (0.00056)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00060)	ND (0.00055)	ND (0.0022)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00026)	ND (0.00024)	ND (0.00095)	
Bromoforn	NC	NC	NC	NC	ND (0.00085)	ND (0.00087)	ND (0.00080)	ND (0.0032)	
Bromomethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00046)	ND (0.00042)	ND (0.0017)	
Carbon disulfide	NC	NC	NC	NC	ND (0.00022)	0.00038	J	ND (0.00021)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00039)	ND (0.00040)	ND (0.00037)	ND (0.0015)	
Chlorobenzene	1	1,000	0.04	1	ND (0.00036)	ND (0.00037)	ND (0.00034)	ND (0.0014)	
Chloroethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00047)	ND (0.00043)	ND (0.0017)	
Chloroform	0.37	700	0.012	0.37	ND (0.00054)	ND (0.00056)	ND (0.00051)	ND (0.0020)	
Chloromethane	NC	NC	NC	NC	ND (0.00070)	ND (0.00072)	ND (0.00066)	ND (0.0026)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)	ND (0.00037)	ND (0.00034)	ND (0.0014)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00018)	ND (0.00016)	ND (0.00064)	
Cyclohexane	NC	NC	NC	NC	ND (0.00043)	ND (0.00044)	ND (0.00040)	ND (0.0016)	
Dibromochloromethane	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)	ND (0.00018)	ND (0.00071)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00037)	ND (0.00034)	ND (0.0014)	
Ethylbenzene	1	780	NC	1	ND (0.00017)	ND (0.00017)	ND (0.00016)	ND (0.00063)	
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.00081)	ND (0.00083)	ND (0.00076)	ND (0.0030)	
Isopropylbenzene	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00015)	ND (0.00058)	
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00035)	ND (0.00036)	ND (0.00033)	0.0022	
Methyl acetate	NC	NC	NC	NC	ND (0.00025)	ND (0.00026)	ND (0.00024)	ND (0.00094)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.00028)	ND (0.00026)	ND (0.0010)	
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00026)	ND (0.00027)	ND (0.00025)	ND (0.00097)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00021)	ND (0.00019)	ND (0.00076)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00021)	ND (0.00020)	ND (0.00078)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	NC	NC	ND (0.00021)	ND (0.00021)	ND (0.00020)	ND (0.00078)	
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00021)	ND (0.00022)	ND (0.00020)	ND (0.00081)	
Toluene	0.7	1,000	0.036	0.7	ND (0.00042)	ND (0.00044)	ND (0.00040)	0.0025	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00048)	ND (0.00049)	ND (0.00045)	ND (0.0018)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)	ND (0.00039)	ND (0.00036)	ND (0.0014)	
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00028)	ND (0.00029)	ND (0.00026)	ND (0.0010)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00056)	ND (0.00051)	ND (0.0020)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00052)	ND (0.00053)	ND (0.00049)	ND (0.0019)	
Xylene (total)	0.26	1,000	0.26	1.6	NA	NA	ND (0.00020)	0.0022	
Total VOCs	NC	NC	NC	NC	ND	0.00038	ND	0.517	

Notes:

- mg/kg - milligrams per kilogram
- ⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
- ⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
- NA - Not Analyzed
- NC - No Criterion
- ND (0.00035) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- * - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

					Sample ID	1R-22.1-ENV-8/4	1R-22.1-ENV-8/5.5	1R-22.1-ENV-9/3	1R-22.1-ENV-9/6
					Lab Sample ID	JB1189-3	JB1189-4	JB1189-5	JB1189-6
					Sampling Date	3/8/2012	3/8/2012	3/8/2012	3/8/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00029)	ND (0.00030)	ND (0.00035)	ND (0.00035)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00022)	ND (0.00026)	ND (0.00026)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00053)	ND (0.00063)	ND (0.00062)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.00027)	ND (0.00032)	ND (0.00031)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00074)	ND (0.00076)	ND (0.00089)	ND (0.00088)	
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00053)	ND (0.00054)	ND (0.00063)	ND (0.00063)	
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00041)	ND (0.00042)	ND (0.00049)	ND (0.00049)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0022)	ND (0.0022)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00029)	ND (0.00034)	ND (0.00034)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00033)	ND (0.00034)	ND (0.00040)	ND (0.00040)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.00022)	ND (0.00026)	ND (0.00026)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00032)	ND (0.00033)	ND (0.00038)	ND (0.00038)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.00024)	ND (0.00028)	ND (0.00028)	
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00021)	ND (0.00021)	ND (0.00025)	ND (0.00024)	
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.070)	ND (0.072)	ND (0.084)	ND (0.084)	
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0052)	ND (0.0053)	ND (0.0063)	ND (0.0062)	
2-Hexanone	NC	NC	NC	NC	ND (0.0030)	ND (0.0031)	ND (0.0036)	ND (0.0036)	
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0032)	ND (0.0032)	ND (0.0038)	ND (0.0038)	
Acetone	0.05	1,000	0.002	0.05	ND (0.0080)	ND (0.0082)	ND (0.0096)	ND (0.0095)	
Acrolein	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.022)	ND (0.022)	
Acrylonitrile	NC	NC	NC	NC	ND (0.0080)	ND (0.0082)	ND (0.0096)	ND (0.0096)	
Benzene	0.06	89	0.07	0.06	ND (0.00016)	ND (0.00016)	ND (0.00019)	0.00059 J	
Bromochloromethane	NC	NC	NC	NC	ND (0.00063)	ND (0.00064)	ND (0.00075)	ND (0.00075)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00032)	ND (0.00032)	
Bromofom	NC	NC	NC	NC	ND (0.00091)	ND (0.00093)	ND (0.0011)	ND (0.0011)	
Bromomethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00049)	ND (0.00057)	ND (0.00057)	
Carbon disulfide	NC	NC	NC	NC	0.0019 J	0.00074 J	ND (0.00028)	ND (0.00028)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00042)	ND (0.00043)	ND (0.00050)	ND (0.00050)	
Chlorobenzene	1	1,000	0.04	1	ND (0.00039)	ND (0.00040)	ND (0.00047)	ND (0.00046)	
Chloroethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00050)	ND (0.00059)	ND (0.00059)	
Chloroform	0.37	700	0.012	0.37	ND (0.00058)	ND (0.00059)	ND (0.00070)	ND (0.00069)	
Chloromethane	NC	NC	NC	NC	ND (0.00075)	ND (0.00077)	ND (0.00090)	ND (0.00090)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00039)	ND (0.00040)	ND (0.00047)	ND (0.00046)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00022)	ND (0.00022)	
Cyclohexane	NC	NC	NC	NC	ND (0.00046)	ND (0.00047)	ND (0.00055)	ND (0.00054)	
Dibromochloromethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00021)	ND (0.00024)	ND (0.00024)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00040)	ND (0.00046)	ND (0.00046)	
Ethylbenzene	1	780	NC	1	ND (0.00018)	ND (0.00018)	0.00065 J	0.00036 J	
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.00086)	ND (0.00088)	ND (0.0010)	ND (0.0010)	
Isopropylbenzene	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	ND (0.00020)	ND (0.00020)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00038)	ND (0.00039)	0.00098 J	0.00055 J	
Methyl acetate	NC	NC	NC	NC	ND (0.0027)	ND (0.0027)	ND (0.0032)	ND (0.0032)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.00030)	ND (0.00035)	ND (0.00035)	
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00028)	ND (0.00028)	ND (0.00033)	ND (0.00033)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.00022)	ND (0.00026)	ND (0.00026)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00022)	ND (0.00023)	0.00052 J	ND (0.00026)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	NC	NC	ND (0.00022)	ND (0.00023)	ND (0.00027)	ND (0.00027)	
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00023)	ND (0.00024)	ND (0.00028)	ND (0.00027)	
Toluene	0.7	1,000	0.036	0.7	ND (0.00046)	ND (0.00047)	0.0014	0.0012 J	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00051)	ND (0.00052)	ND (0.00061)	ND (0.00061)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00041)	ND (0.00041)	ND (0.00049)	ND (0.00048)	
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00030)	ND (0.00030)	ND (0.00036)	ND (0.00036)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00059)	ND (0.00070)	ND (0.00069)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00056)	ND (0.00057)	ND (0.00067)	ND (0.00066)	
Xylenes (total)	0.26	1,000	0.26	1.6	ND (0.00022)	ND (0.00023)	0.0015	0.00055 J	
Total VOCs	NC	NC	NC	NC	0.002	0.001	0.004	0.003	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	1R-22.1-ENV-10/2		1R-22.1-ENV-10/6		1R-22.1-ENV-11/2		1R-22.1-ENV-11/7.5	
	Lab Sample ID	Sampling Date	Matrix	Units	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	mg/kg	mg/kg	mg/kg	mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)								
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00034)	ND (0.00026)	ND (0.00037)	ND (0.00038)
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00019)	ND (0.00027)	ND (0.00028)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00062)	ND (0.00046)	ND (0.00066)	ND (0.00068)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00031)	ND (0.00023)	ND (0.00033)	ND (0.00034)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00087)	ND (0.00066)	ND (0.00093)	ND (0.00097)
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00062)	ND (0.00047)	ND (0.00066)	ND (0.00069)
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00048)	ND (0.00037)	ND (0.00052)	ND (0.00054)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0021)	ND (0.0016)	ND (0.0023)	ND (0.0024)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00026)	ND (0.00036)	ND (0.00038)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00039)	ND (0.00030)	ND (0.00042)	ND (0.00044)
1,2-Dichloroethane	0.02	60	0.1	0.02	ND (0.00026)	ND (0.00020)	ND (0.00028)	ND (0.00029)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00038)	ND (0.00029)	ND (0.00040)	ND (0.00042)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00027)	ND (0.00021)	ND (0.00029)	ND (0.00030)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00024)	ND (0.00018)	ND (0.00026)	ND (0.00027)
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.083)	ND (0.062)	ND (0.088)	ND (0.092)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0062)	ND (0.0046)	ND (0.0066)	0.0293
2-Hexanone	NC	NC	NC	NC	ND (0.0035)	ND (0.0027)	ND (0.0038)	ND (0.0039)
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0037)	ND (0.0028)	ND (0.0040)	ND (0.0042)
Acetone	0.05	1,000	0.002	0.05	ND (0.0094)	ND (0.0071)	ND (0.010)	0.179
Acrolein	NC	NC	NC	NC	ND (0.021)	ND (0.016)	ND (0.023)	ND (0.024)
Acrylonitrile	NC	NC	NC	NC	ND (0.0095)	ND (0.0071)	ND (0.010)	ND (0.011)
Benzene	0.06	89	0.07	0.06	0.00066	0.00032	ND (0.00020)	ND (0.00021)
Bromochloromethane	NC	NC	NC	NC	ND (0.00074)	ND (0.00056)	ND (0.00079)	ND (0.00082)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00024)	ND (0.00034)	ND (0.00035)
Bromofrom	NC	NC	NC	NC	ND (0.0011)	ND (0.00081)	ND (0.0011)	ND (0.0012)
Bromomethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00042)	ND (0.00060)	ND (0.00062)
Carbon disulfide	NC	NC	NC	NC	ND (0.00028)	ND (0.00021)	ND (0.00030)	0.0032
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00049)	ND (0.00037)	ND (0.00053)	ND (0.00055)
Chlorobenzene	1	1,000	0.04	1	ND (0.00046)	ND (0.00035)	ND (0.00049)	ND (0.00051)
Chloroethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00044)	ND (0.00062)	ND (0.00064)
Chloroform	0.37	700	0.012	0.37	ND (0.00069)	ND (0.00052)	ND (0.00073)	ND (0.00076)
Chloromethane	NC	NC	NC	NC	ND (0.00089)	ND (0.00067)	ND (0.00095)	ND (0.00098)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00046)	ND (0.00035)	ND (0.00049)	ND (0.00051)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00022)	ND (0.00016)	ND (0.00023)	ND (0.00024)
Cyclohexane	NC	NC	NC	NC	ND (0.00054)	ND (0.00041)	ND (0.00058)	ND (0.00060)
Dibromochloromethane	NC	NC	NC	NC	ND (0.00024)	ND (0.00018)	ND (0.00026)	ND (0.00027)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00034)	ND (0.00049)	ND (0.00051)
Ethylbenzene	1	780	NC	1	0.00095	0.00083	ND (0.00022)	0.0006
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.0010)	ND (0.00077)	ND (0.0011)	ND (0.0011)
Isopropylbenzene	NC	NC	NC	NC	0.00029	ND (0.00015)	ND (0.00021)	ND (0.00022)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	0.0014	0.0014	ND (0.00048)	0.00096
Methyl acetate	NC	NC	NC	NC	ND (0.0032)	ND (0.0024)	ND (0.0034)	ND (0.0035)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00035)	ND (0.00026)	ND (0.00037)	ND (0.00039)
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00033)	ND (0.00025)	ND (0.00035)	ND (0.00036)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00025)	ND (0.00019)	ND (0.00027)	ND (0.00028)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	0.00067	0.00074	ND (0.00028)	0.0005
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	NC	NC	ND (0.00026)	ND (0.00020)	ND (0.00028)	ND (0.00029)
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00027)	ND (0.00020)	ND (0.00029)	ND (0.00030)
Toluene	0.7	1,000	0.036	0.7	0.002	0.0014	ND (0.00057)	0.0011
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00060)	ND (0.00045)	ND (0.00064)	ND (0.00067)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00048)	ND (0.00036)	ND (0.00051)	ND (0.00053)
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00035)	ND (0.00027)	ND (0.00037)	ND (0.00039)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00068)	ND (0.00052)	ND (0.00073)	ND (0.00076)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00065)	ND (0.00049)	ND (0.00070)	ND (0.00073)
Xylene (total)	0.26	1,000	0.26	1.6	0.0021	0.0021	ND (0.00028)	0.0015
Total VOCs	NC	NC	NC	NC	0.006	0.005	ND	0.215

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	1R-22.1-ENV-12/1	1R-22.1-ENV-12/5	1R-22.1-ENV-13/1	1R-22.1-ENV-13/7
					Lab Sample ID	JB1030-3	JB1030-4	JB1030-6	JB1030-5
					Sampling Date	3/7/2012	3/7/2012	3/7/2012	3/7/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
					Result				
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00036)	ND (0.00033)	ND (0.00033)	ND (0.00042)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00024)	ND (0.00024)	ND (0.00031)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00065)	ND (0.00059)	ND (0.00059)	ND (0.00075)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00033)	ND (0.00030)	ND (0.00030)	ND (0.00038)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00092)	ND (0.00083)	ND (0.00083)	ND (0.0011)	
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00066)	ND (0.00060)	ND (0.00060)	ND (0.00076)	
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00051)	ND (0.00046)	ND (0.00046)	ND (0.00059)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0023)	ND (0.0021)	ND (0.0021)	ND (0.0026)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00032)	ND (0.00032)	ND (0.00041)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00042)	ND (0.00038)	ND (0.00038)	ND (0.00048)	
1,2-Dichloroethane	0.02	60	1.0	0.02	ND (0.00027)	ND (0.00025)	ND (0.00025)	ND (0.00032)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00040)	ND (0.00036)	ND (0.00036)	ND (0.00046)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00029)	ND (0.00026)	ND (0.00026)	ND (0.00033)	
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00026)	ND (0.00023)	ND (0.00023)	ND (0.00030)	
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.0088)	ND (0.079)	ND (0.079)	ND (0.10)	
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0065)	ND (0.0059)	ND (0.0059)	0.0823	
2-Hexanone	NC	NC	NC	NC	ND (0.0037)	ND (0.0034)	ND (0.0034)	ND (0.0043)	
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0040)	ND (0.0036)	ND (0.0036)	ND (0.0046)	
Acetone	0.05	1,000	0.002	0.05	ND (0.010)	ND (0.0090)	ND (0.0090)	0.45	a/B
Acrolein	NC	NC	NC	NC	ND (0.023)	ND (0.020)	ND (0.020)	ND (0.026)	
Acrylonitrile	NC	NC	NC	NC	ND (0.010)	ND (0.0091)	ND (0.0091)	ND (0.012)	
Benzene	0.06	89	0.07	0.06	ND (0.00020)	ND (0.00018)	ND (0.00018)	0.0058	J
Bromochloromethane	NC	NC	NC	NC	ND (0.00078)	ND (0.00071)	ND (0.00071)	ND (0.00090)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00031)	ND (0.00031)	ND (0.00039)	
Bromofrom	NC	NC	NC	NC	ND (0.0011)	ND (0.0010)	ND (0.0010)	ND (0.0013)	
Bromomethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00054)	ND (0.00054)	ND (0.00069)	
Carbon disulfide	NC	NC	NC	NC	ND (0.00029)	ND (0.00027)	ND (0.00027)	0.005	J
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00052)	ND (0.00047)	ND (0.00047)	ND (0.00060)	
Chlorobenzene	1	1,000	0.04	1	ND (0.00048)	ND (0.00044)	ND (0.00044)	ND (0.00056)	
Chloroethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00056)	ND (0.00056)	ND (0.00071)	
Chloroform	0.37	700	0.012	0.37	ND (0.00073)	ND (0.00066)	ND (0.00066)	ND (0.00084)	
Chloromethane	NC	NC	NC	NC	ND (0.00094)	ND (0.00085)	ND (0.00085)	ND (0.0011)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00048)	ND (0.00044)	ND (0.00044)	ND (0.00056)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00023)	ND (0.00021)	ND (0.00021)	ND (0.00026)	
Cyclohexane	NC	NC	NC	NC	ND (0.00057)	ND (0.00052)	ND (0.00052)	ND (0.00066)	
Dibromochloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00023)	ND (0.00023)	ND (0.00029)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00044)	ND (0.00044)	ND (0.00056)	
Ethylbenzene	1	780	NC	1	ND (0.00022)	ND (0.00020)	ND (0.00020)	0.001	J
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.0011)	ND (0.00098)	ND (0.00098)	ND (0.0012)	
Isopropylbenzene	NC	NC	NC	NC	ND (0.00021)	ND (0.00019)	ND (0.00019)	ND (0.00024)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00047)	ND (0.00043)	ND (0.00043)	0.0013	J
Methyl acetate	NC	NC	NC	NC	ND (0.0033)	ND (0.0030)	ND (0.0030)	ND (0.0039)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00037)	ND (0.00033)	ND (0.00033)	ND (0.00043)	
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00035)	ND (0.00031)	ND (0.00031)	ND (0.00040)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00027)	ND (0.00024)	ND (0.00024)	ND (0.00031)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00028)	ND (0.00025)	ND (0.00025)	0.0064	J
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	NC	NC	ND (0.00028)	ND (0.00025)	ND (0.00025)	ND (0.00032)	
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00029)	ND (0.00026)	ND (0.00026)	ND (0.00033)	
Toluene	0.7	1,000	0.036	0.7	ND (0.00057)	ND (0.00051)	ND (0.00051)	0.0022	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00064)	ND (0.00058)	ND (0.00058)	ND (0.00074)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00051)	ND (0.00046)	ND (0.00046)	ND (0.00058)	
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00037)	ND (0.00034)	ND (0.00034)	ND (0.00043)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00072)	ND (0.00066)	ND (0.00066)	ND (0.00084)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00069)	ND (0.00063)	ND (0.00063)	ND (0.00080)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00028)	ND (0.00025)	ND (0.00025)	0.002	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	0.543	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	1R-22.1-ENV-14/2		1R-22.1-ENV-14/7		1R-22.1-ENV-15/1		1R-22.1-ENV-15/7.5	
	Lab Sample ID	Sampling Date	Matrix	Units	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)								
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00028)	ND (0.00035)	ND (0.00033)	ND (0.00037)
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00026)	ND (0.00024)	ND (0.00028)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00063)	ND (0.00059)	ND (0.00067)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00032)	ND (0.00030)	ND (0.00034)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00071)	ND (0.00089)	ND (0.00083)	ND (0.00095)
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00051)	ND (0.00064)	ND (0.00059)	ND (0.00068)
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00040)	ND (0.00049)	ND (0.00046)	ND (0.00053)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0022)	ND (0.0020)	ND (0.0023)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00035)	ND (0.00032)	ND (0.00037)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00032)	ND (0.00040)	ND (0.00038)	ND (0.00043)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00026)	ND (0.00025)	ND (0.00028)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00031)	ND (0.00039)	ND (0.00036)	ND (0.00041)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00028)	ND (0.00026)	ND (0.00030)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00020)	ND (0.00025)	ND (0.00023)	ND (0.00026)
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.0068)	ND (0.084)	ND (0.079)	ND (0.091)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0050)	ND (0.0063)	ND (0.0059)	ND (0.0067)
2-Hexanone	NC	NC	NC	NC	ND (0.0029)	ND (0.0036)	ND (0.0034)	ND (0.0039)
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0031)	ND (0.0038)	ND (0.0036)	ND (0.0041)
Acetone	0.05	1,000	0.002	0.05	ND (0.0077)	0.0345	ND (0.0090)	0.129
Acrolein	NC	NC	NC	NC	ND (0.017)	ND (0.022)	ND (0.020)	ND (0.023)
Acrylonitrile	NC	NC	NC	NC	ND (0.0078)	ND (0.0097)	ND (0.0090)	ND (0.010)
Benzene	0.06	89	0.07	0.06	ND (0.00016)	ND (0.00019)	ND (0.00018)	ND (0.00021)
Bromochloromethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00075)	ND (0.00070)	ND (0.00081)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00032)	ND (0.00030)	ND (0.00035)
Bromofrom	NC	NC	NC	NC	ND (0.00088)	ND (0.0011)	ND (0.0010)	ND (0.0012)
Bromomethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00057)	ND (0.00053)	ND (0.00061)
Carbon disulfide	NC	NC	NC	NC	ND (0.00023)	0.00046	J	ND (0.00027)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00040)	ND (0.00050)	ND (0.00047)	ND (0.00054)
Chlorobenzene	1	1,000	0.04	1	ND (0.00038)	ND (0.00047)	ND (0.00044)	ND (0.00050)
Chloroethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00059)	ND (0.00055)	ND (0.00063)
Chloroform	0.37	700	0.012	0.37	ND (0.00056)	ND (0.00070)	ND (0.00066)	ND (0.00075)
Chloromethane	NC	NC	NC	NC	ND (0.00073)	ND (0.00091)	ND (0.00085)	ND (0.00097)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00038)	ND (0.00047)	ND (0.00044)	ND (0.00050)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00022)	ND (0.00021)	ND (0.00024)
Cyclohexane	NC	NC	NC	NC	ND (0.00044)	ND (0.00055)	ND (0.00051)	ND (0.00059)
Dibromochloromethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00024)	ND (0.00023)	ND (0.00026)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00047)	ND (0.00044)	ND (0.00050)
Ethylbenzene	1	780	NC	1	ND (0.00017)	0.00063	J	0.0012
Freon (F ²)	NC	NC	NC	NC	ND (0.00084)	ND (0.0010)	ND (0.00097)	ND (0.0011)
Isopropylbenzene	NC	NC	NC	NC	ND (0.00016)	ND (0.00020)	ND (0.00019)	ND (0.00021)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00037)	0.0012	J	0.0019
Methyl acetate	NC	NC	NC	NC	ND (0.00026)	ND (0.00032)	ND (0.00030)	ND (0.00035)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00029)	ND (0.00036)	ND (0.00033)	ND (0.00038)
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00027)	ND (0.00033)	ND (0.00031)	ND (0.00036)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00021)	ND (0.00026)	ND (0.00024)	ND (0.00028)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00021)	0.00066	J	0.00089
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	NC	NC	ND (0.00022)	ND (0.00027)	ND (0.00025)	ND (0.00029)
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00022)	ND (0.00028)	ND (0.00026)	ND (0.00030)
Toluene	0.7	1,000	0.036	0.7	ND (0.00044)	ND (0.00055)	0.002	0.0021
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00049)	ND (0.00062)	ND (0.00058)	ND (0.00066)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00039)	ND (0.00049)	ND (0.00046)	ND (0.00052)
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00029)	ND (0.00036)	ND (0.00034)	ND (0.00038)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00070)	ND (0.00065)	ND (0.00075)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00054)	ND (0.00067)	ND (0.00063)	ND (0.00072)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00021)	0.0019	0.0028	0.0023
Total VOCs	NC	NC	NC	NC	ND	0.037	0.006	0.138

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	1R-22.1-ENV-16/2				1R-22.1-ENV-16/5				1R-22.1-ENV-17/0-4				1R-22.1-ENV-17/4-8			
	Lab Sample ID															
Sampling Date	3/9/2012				3/9/2012				9/19/2012				9/19/2012			
Matrix	Soil				Soil				Soil				Soil			
Units	mg/kg				mg/kg				mg/kg				mg/kg			
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result		Result					
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00041)	ND (0.00044)	ND (0.00011)	ND (0.011)								
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00033)	ND (0.00014)	ND (0.013)								
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00074)	ND (0.00079)	ND (0.00018)	ND (0.018)								
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00037)	ND (0.00040)	ND (0.00014)	ND (0.014)								
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.0010)	ND (0.0011)	ND (0.00027)	ND (0.026)								
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00075)	ND (0.00080)	ND (0.00017)	ND (0.017)								
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00058)	ND (0.00062)	ND (0.00014)	ND (0.014)								
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA								
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0026)	ND (0.0028)	ND (0.00092)	ND (0.090)								
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00043)	ND (0.00013)	ND (0.013)								
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00047)	ND (0.00051)	ND (0.00020)	ND (0.019)								
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00031)	ND (0.00033)	ND (0.00014)	ND (0.014)								
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00045)	ND (0.00049)	ND (0.00016)	ND (0.016)								
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA								
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00033)	ND (0.00035)	ND (0.00019)	ND (0.019)								
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00029)	ND (0.00031)	ND (0.00018)	ND (0.018)								
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.10)	ND (0.11)	ND (0.062)	ND (6.0)								
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0074)	0.0216	ND (0.00025)	ND (0.024)								
2-Hexanone	NC	NC	NC	NC	ND (0.0042)	ND (0.0045)	ND (0.00064)	ND (0.063)								
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0045)	ND (0.0048)	ND (0.00078)	ND (0.076)								
Acetone	0.05	1,000	0.002	0.05	ND (0.011)	0.146	ND (0.0018)	ND (0.17)								
Acrolein	NC	NC	NC	NC	ND (0.026)	ND (0.027)	ND (0.0029)	ND (0.29)								
Acrylonitrile	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.0016)	ND (0.15)								
Benzene	0.06	89	0.07	0.06	ND (0.00023)	ND (0.00024)	ND (0.00012)	ND (0.012)								
Bromochloromethane	NC	NC	NC	NC	ND (0.00089)	ND (0.00095)	ND (0.00027)	ND (0.027)								
Bromodichloromethane	NC	NC	NC	NC	ND (0.00038)	ND (0.00041)	ND (0.00011)	ND (0.011)								
Bromofrom	NC	NC	NC	NC	ND (0.0013)	ND (0.0014)	ND (0.00016)	ND (0.015)								
Bromomethane	NC	NC	NC	NC	ND (0.00067)	ND (0.00072)	ND (0.00028)	ND (0.028)								
Carbon disulfide	NC	NC	NC	NC	ND (0.00034)	0.002	J	ND (0.00012)	0.0724	J						
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00059)	ND (0.00063)	ND (0.00014)	ND (0.013)								
Chlorobenzene	1	1,000	0.04	1	ND (0.00055)	ND (0.00059)	ND (0.00011)	ND (0.011)								
Chloroethane	NC	NC	NC	NC	ND (0.00070)	ND (0.00075)	ND (0.00024)	ND (0.023)								
Chloroform	0.37	700	0.012	0.37	ND (0.00083)	ND (0.00088)	ND (0.000086)	ND (0.0083)								
Chloromethane	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.00019)	ND (0.019)								
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00055)	ND (0.00059)	ND (0.00019)	ND (0.018)								
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00026)	ND (0.00028)	ND (0.00014)	ND (0.014)								
Cyclohexane	NC	NC	NC	NC	ND (0.00065)	ND (0.00069)	ND (0.00013)	ND (0.013)								
Dibromochloromethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00031)	ND (0.00017)	ND (0.017)								
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00059)	ND (0.00024)	ND (0.023)								
Ethylbenzene	1	780	NC	1	0.00082	J	0.00041	J	ND (0.00027)	ND (0.027)						
Freon (TF ⁽²⁾)	NC	NC	NC	NC	ND (0.0012)	ND (0.0013)	ND (0.00045)	ND (0.043)								
Isopropylbenzene	NC	NC	NC	NC	ND (0.00023)	ND (0.00025)	ND (0.000077)	ND (0.0075)								
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	0.001	J	0.00065	J	ND (0.00018)	0.0411	J					
Methyl acetate	NC	NC	NC	NC	ND (0.0038)	ND (0.0041)	ND (0.0027)	0.513								
Methylcyclohexane	NC	NC	NC	NC	ND (0.00042)	ND (0.00045)	ND (0.00018)	ND (0.017)								
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.00039)	ND (0.00042)	ND (0.00013)	ND (0.13)								
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00031)	ND (0.00033)	ND (0.00024)	ND (0.024)								
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA								
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA								
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	0.00049	J	ND (0.00034)	ND (0.00014)	ND (0.014)							
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA								
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA								
Styrene	NC	NC	NC	NC	ND (0.00032)	ND (0.00034)	ND (0.000095)	ND (0.0093)								
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA								
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00033)	ND (0.00035)	ND (0.00018)	ND (0.017)								
Toluene	0.7	1,000	0.036	0.7	0.0019	0.00088	J	ND (0.00011)	0.024	J						
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00073)	ND (0.00077)	ND (0.00025)	ND (0.024)								
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00057)	ND (0.00061)	ND (0.00016)	ND (0.016)								
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00042)	ND (0.00045)	ND (0.00018)	ND (0.018)								
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00082)	ND (0.00088)	ND (0.00031)	ND (0.030)								
Vinyl chloride	0.02	27	NC	0.02	ND (0.00079)	ND (0.00084)	ND (0.00015)	ND (0.015)								
Xylene (total)	0.26	1,000	0.26	1.6	0.0015	J	0.00065	J	ND (0.00014)	0.0411	J					
Total VOCs	NC	NC	NC	NC	0.004		0.172		ND		0.651					

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA - Not Analyzed
NC - No Criterion
ND (0.00035) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

Sample ID	1R-22.1-ENV-18/0-4	1R-22.1-ENV-18/4-8	1R-22.1-ENV-19/3	1R-22.1-ENV-19/7				
	Lab Sample ID	JB17083-1	JB17083-2	JB17339-1	JB17339-2			
Sampling Date	9/20/2012	9/20/2012	9/25/2012	9/25/2012				
Matrix	Soil	Soil	Soil	Soil				
Units	mg/kg	mg/kg	mg/kg	mg/kg				
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00016)	ND (0.00026)	ND (0.00021)	ND (0.00019)
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00019)	ND (0.00032)	ND (0.00026)	ND (0.00023)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00042)	ND (0.00034)	ND (0.00030)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00020)	ND (0.00033)	ND (0.00027)	ND (0.00024)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00038)	ND (0.00063)	ND (0.00051)	ND (0.00045)
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00024)	ND (0.00040)	ND (0.00032)	ND (0.00029)
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00020)	ND (0.00034)	ND (0.00027)	ND (0.00024)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0013)	ND (0.0022)	ND (0.0018)	ND (0.0016)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00019)	ND (0.00031)	ND (0.00025)	ND (0.00022)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00028)	ND (0.00046)	ND (0.00037)	ND (0.00033)
1,2-Dichloroethane	0.02	60	1.0	0.02	ND (0.00020)	ND (0.00033)	ND (0.00027)	ND (0.00024)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00023)	ND (0.00016)	ND (0.00030)	ND (0.00027)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00028)	ND (0.00046)	ND (0.00037)	ND (0.00033)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00026)	ND (0.00043)	ND (0.00035)	ND (0.00031)
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.088)	ND (0.15)	ND (0.12)	ND (0.10)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	0.0117	ND (0.0058)	ND (0.0047)	0.0239
2-Hexanone	NC	NC	NC	NC	ND (0.00092)	ND (0.0015)	ND (0.0012)	ND (0.0011)
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0011)	ND (0.0018)	ND (0.0015)	ND (0.0013)
Acetone	0.05	1,000	0.002	0.05	0.0848	0.059	ND (0.0033)	0.0738
Acrolein	NC	NC	NC	NC	ND (0.0042)	ND (0.0069)	ND (0.0056)	ND (0.0050)
Acrylonitrile	NC	NC	NC	NC	ND (0.0023)	ND (0.0037)	ND (0.0030)	ND (0.0027)
Benzene	0.06	89	0.07	0.06	ND (0.00018)	ND (0.00029)	ND (0.00023)	ND (0.00021)
Bromochloromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00065)	ND (0.00052)	ND (0.00046)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00026)	ND (0.00021)	ND (0.00018)
Bromoform	NC	NC	NC	NC	ND (0.00022)	ND (0.00037)	ND (0.00030)	ND (0.00026)
Bromomethane	NC	NC	NC	NC	ND (0.00040)	ND (0.00067)	ND (0.00054)	ND (0.00048)
Carbon disulfide	NC	NC	NC	NC	0.00079	J	0.0017	J
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00020)	ND (0.00032)	ND (0.00026)	ND (0.00023)
Chlorobenzene	1	1,000	0.04	1	ND (0.00016)	ND (0.00026)	ND (0.00021)	ND (0.00019)
Chloroethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00055)	ND (0.00045)	ND (0.00040)
Chloroform	0.37	700	0.012	0.37	ND (0.00012)	ND (0.00020)	ND (0.00016)	ND (0.00014)
Chloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00045)	ND (0.00037)	ND (0.00032)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00027)	ND (0.00045)	ND (0.00036)	ND (0.00032)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)	ND (0.00034)	ND (0.00027)	ND (0.00024)
Cyclohexane	NC	NC	NC	NC	ND (0.00018)	ND (0.00030)	ND (0.00024)	ND (0.00022)
Dibromochloromethane	NC	NC	NC	NC	ND (0.00024)	ND (0.00040)	ND (0.00032)	ND (0.00029)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00056)	ND (0.00045)	ND (0.00040)
Ethylbenzene	1	780	NC	1	ND (0.00039)	ND (0.00064)	ND (0.00052)	ND (0.00046)
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.00063)	ND (0.0011)	ND (0.00085)	ND (0.00075)
Isopropylbenzene	NC	NC	NC	NC	ND (0.00011)	ND (0.00018)	ND (0.00015)	ND (0.00013)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00026)	ND (0.00042)	ND (0.00034)	ND (0.00030)
Methyl acetate	NC	NC	NC	NC	ND (0.0038)	ND (0.0063)	ND (0.0051)	ND (0.0045)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00025)	ND (0.00041)	ND (0.00033)	0.0011
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.0019)	ND (0.0031)	ND (0.0025)	ND (0.0022)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00035)	ND (0.00057)	ND (0.00046)	ND (0.00041)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	4	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00034)	ND (0.00027)	ND (0.00024)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	NC	NC	ND (0.00013)	ND (0.00022)	ND (0.00018)	ND (0.00016)
tert-Butylbenzene	6	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00025)	ND (0.00042)	ND (0.00034)	ND (0.00030)
Toluene	0.7	1,000	0.036	0.7	ND (0.00015)	ND (0.00026)	ND (0.00021)	ND (0.00018)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00035)	ND (0.00058)	ND (0.00047)	ND (0.00042)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00023)	ND (0.00038)	ND (0.00031)	ND (0.00027)
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00026)	ND (0.00042)	ND (0.00034)	ND (0.00030)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00073)	ND (0.00059)	ND (0.00052)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00021)	ND (0.00035)	ND (0.00028)	ND (0.00025)
Xylenes (total)	0.26	1,000	0.26	1.6	ND (0.00020)	ND (0.00034)	ND (0.00027)	ND (0.00024)
Total VOCs	NC	NC	NC	NC	0.097	0.061	ND	0.101

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

					Sample ID	1R-22.1-ENV-20/3	1R-22.1-ENV-20/5
					Lab Sample ID	JB17339-8	JB17339-9
					Sampling Date	9/25/2012	9/25/2012
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00026)		ND (0.016)
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00033)		ND (0.019)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00043)		ND (0.026)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00034)		ND (0.020)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00064)		ND (0.038)
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00041)		ND (0.024)
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00034)		ND (0.020)
1,2,4-Trimethylbenzene	4	380	NC	4	NA		NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0022)		ND (0.13)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00031)		ND (0.019)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00047)		ND (0.028)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00033)		ND (0.020)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00038)		ND (0.023)
1,3,5-Trimethylbenzene	8	380	NC	8	NA		NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00046)		ND (0.027)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00044)		ND (0.026)
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.15)		ND (8.7)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	0.0387		ND (0.35)
2-Hexanone	NC	NC	NC	NC	ND (0.0015)		ND (0.091)
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0019)		ND (0.11)
Acetone	0.05	1,000	0.002	0.05	0.131		ND (0.25)
Acrolein	NC	NC	NC	NC	ND (0.0070)		ND (0.42)
Acrylonitrile	NC	NC	NC	NC	ND (0.0038)		ND (0.22)
Benzene	0.06	89	0.07	0.06	ND (0.00030)		ND (0.017)
Bromochloromethane	NC	NC	NC	NC	ND (0.00066)		ND (0.039)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)		ND (0.015)
Bromoform	NC	NC	NC	NC	ND (0.00037)		ND (0.022)
Bromomethane	NC	NC	NC	NC	ND (0.00068)		ND (0.040)
Carbon disulfide	NC	NC	NC	NC	0.0012	J	0.119
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00033)		ND (0.020)
Chlorobenzene	1	1,000	0.04	1	ND (0.00027)		ND (0.016)
Chloroethane	NC	NC	NC	NC	ND (0.00056)		ND (0.033)
Chloroform	0.37	700	0.012	0.37	ND (0.00020)		ND (0.012)
Chloromethane	NC	NC	NC	NC	ND (0.00046)		ND (0.027)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00045)		ND (0.027)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00034)		ND (0.020)
Cyclohexane	NC	NC	NC	NC	ND (0.00031)		ND (0.018)
Dibromochloromethane	NC	NC	NC	NC	ND (0.00041)		ND (0.024)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00057)		ND (0.033)
Ethylbenzene	1	780	NC	1	ND (0.00065)		ND (0.039)
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.0011)		ND (0.063)
Isopropylbenzene	NC	NC	NC	NC	ND (0.00018)		ND (0.011)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00043)		ND (0.026)
Methyl acetate	NC	NC	NC	NC	ND (0.0064)		ND (0.38)
Methylcyclohexane	NC	NC	NC	NC	0.0018	J	ND (0.025)
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.0031)		ND (0.19)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00058)		ND (0.034)
n-Butylbenzene	12	1,000	NC	12	NA		NA
n-Propylbenzene	4	1,000	NC	4	NA		NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00034)		ND (0.020)
p-Isopropyltoluene	NC	NC	NC	NC	NA		NA
sec-Butylbenzene	11	1,000	NC	11	NA		NA
Styrene	NC	NC	NC	NC	ND (0.00023)		ND (0.013)
tert-Butylbenzene	6	1,000	NC	6	NA		NA
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00043)		ND (0.025)
Toluene	0.7	1,000	0.036	0.7	ND (0.00026)		ND (0.015)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00059)		ND (0.035)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)		ND (0.023)
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00043)		ND (0.026)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00074)		ND (0.044)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00036)		ND (0.021)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00034)		ND (0.020)
Total VOCs	NC	NC	NC	NC	0.173		0.119

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-17-WC	1R-22.1-ENV-17-WC/2	1R-22.1-ENV-17-WC/4	1R-22.1-ENV-17-WC/6
Lab Sample ID					JB16942-7	JB16942-1	JB16942-2	JB16942-3
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	170	NA	NA	NA
Solids %	NC	NC	NC	NC	82.1	92.4	81.6	60.5
pH (su)	NC	NC	NC	NC	7.31	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-17-WC/8	1R-22.1-ENV-18-WC	1R-22.1-ENV-18-WC/2	1R-22.1-ENV-18-WC/4
Lab Sample ID					JB16942-4	JB17083-7	JB17083-3	JB17083-4
Sampling Date					9/19/2012	9/20/2012	9/20/2012	9/20/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	182	NA	NA
Solids %	NC	NC	NC	NC	71.3	62.7	61.2	59.1
pH (su)	NC	NC	NC	NC	NA	6.64	NA	NA

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-18-WC/6	1R-22.1-ENV-18-WC/8	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19-WC				
Lab Sample ID					JB17083-5	JB17083-6	JB17083-8	JB17339-7				
Sampling Date					9/20/2012	9/20/2012	9/20/2012	9/25/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	NA	NA	156	141
Solids %					NC	NC	NC	NC	63.5	60.3	NA	65.4
pH (su)					NC	NC	NC	NC	NA	NA	7.21	7.27

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-19-WC/2	1R-22.1-ENV-19-WC/4	1R-22.1-ENV-19-WC/6	1R-22.1-ENV-19-WC/8
Lab Sample ID					JB17339-3	JB17339-4	JB17339-5	JB17339-6
Sampling Date					9/25/2012	9/25/2012	9/25/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA
Solids %	NC	NC	NC	NC	71	57.4	63.8	60.9
pH (su)	NC	NC	NC	NC	NA	NA	NA	NA

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-20-WC/2	1R-22.1-ENV-20-WC/4	1R-22.1-ENV-20-WC/6				
Lab Sample ID					JB17339-14	JB17339-10	JB17339-11	JB17339-12				
Sampling Date					9/25/2012	9/25/2012	9/25/2012	9/25/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	313	NA	NA	NA
Solids %					NC	NC	NC	NC	60.4	64.2	61.9	56
pH (su)					NC	NC	NC	NC	5.97	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-ENV-20-WC/8	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP	1R-22.1-HDD-1A/0-2
Lab Sample ID					JB17339-13	JB17339-15	JB16562-9	JB16562-1
Sampling Date					9/25/2012	9/25/2012	9/15/2012	9/15/2012
Matrix					Soil	Soil	Soil	Soil
					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	160	204	NA
Solids %	NC	NC	NC	NC	59.7	60.7	NA	59.5
pH (su)	NC	NC	NC	NC	NA	7.13	7.29	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-HDD-1A/2-4	1R-22.1-HDD-1A/4-8	1R-22.1-HDD-1B/0-2	1R-22.1-HDD-1B/2-4
Lab Sample ID					JB16562-2	JB16562-3	JB16562-4	JB16562-5
Sampling Date					9/15/2012	9/15/2012	9/15/2012	9/15/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA
Solids %	NC	NC	NC	NC	67	54.7	70.7	67.3
pH (su)	NC	NC	NC	NC	NA	NA	NA	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

1R-22.1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					1R-22.1-HDD-1B/4-6	
Lab Sample ID					JB16562-6	
Sampling Date					9/15/2012	
Matrix					Soil	
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	
Solids %	NC	NC	NC	NC	61.6	
pH (su)	NC	NC	NC	NC	NA	

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

NA - Not Analyzed

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS

TRC Sample No.:	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP
Date Sampled:	09/20/12	09/25/12	09/15/12
Lab Sample No.:	JB17083-8A	JB17339-15	JB16562-9A
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)			
Arsenic	5.0	<0.50	<0.50	<0.50
Barium	100.0	<1.0	<1.0	<1.0
Cadmium	1.0	<0.0050	<0.0050	0.021
Chromium	5.0	<0.010	<0.010	<0.010
Copper	NC	<0.025	<0.025	0.12
Lead	5.0	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020	<0.00020
Nickel	NC	0.06	0.091	0.095
Selenium	1.0	<0.50	<0.50	<0.50
Silver	5.0	<0.010	<0.010	<0.010
Zinc	NC	0.67	0.86	1.3

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

1R-22.1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					1R-22.1-ENV-17-WC	1R-22.1-ENV-18-WC	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19-WC
Lab Sample ID					JB16942-7	JB17083-7	JB17083-8	JB17339-7
Sampling Date					9/19/2012	9/20/2012	9/20/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	7190	15600	7080	16400
Antimony	NC	NC	12	NC	<2.3	<3.0	<2.6	3.1
Arsenic	13	16	13	16	14.6	89.8	16.7	97.9
Barium	350	10,000	433	820	74.5	241	64.6	177
Beryllium	7.2	2,700	10	47	0.44	0.62	0.39	0.91
Cadmium	2.5	60	4	7.5	0.6	1.5	<0.65	1.9
Calcium	NC	NC	10000	NC	2190	3650	3510	3500
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	33.1	99	28.4	88.9
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.49	<0.64	<0.54	<0.61
Chromium (Trivalent)	30	6800	41	NC	32.9	a 99	b 28.4	b 88.9
Cobalt	NC	NC	20	NC	<5.7	8.9	<6.5	9.5
Copper	50	10,000	50	1,720	49.3	229	48.3	262
Cyanide (Total)	27	10,000	NC	40	<0.27	0.67	<0.33	0.59
Iron	NC	NC	NC	NC	17500	35000	21500	37700
Lead	63	3,900	63	450	69.5	224	42.7	230
Magnesium	NC	NC	NC	NC	2840	5370	2720	5370
Manganese	1,600	10,000	1600	2,000	216	272	233	379
Mercury (Total)	0.18	5.7	0.18	0.73	1.1	2.8	0.86	3.6
Molybdenum	NC	NC	2	NC	<2.3	<3.0	<2.6	<3.1
Nickel	30	10,000	30	130	15.7	31.1	14.8	33.8
Potassium	NC	NC	NC	NC	1630	3080	1590	3220
Selenium	3.9	6,800	3.9	4	<2.3	6.1	<2.6	7.4
Silver	2	6,800	2	8.3	<0.57	5.7	1.8	3.1
Sodium	NC	NC	NC	NC	<1100	1690	<1300	1510
Thallium	NC	NC	5	NC	<1.1	<1.5	<1.3	<1.5
Vanadium	NC	NC	39	NC	20.4	50.4	24	49.1
Zinc	109	10,000	109	2,480	85.7	209	71.3	272

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.6 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP
Lab Sample ID					JB17339-14	JB17339-15	JB16562-9
Sampling Date					9/25/2012	9/25/2012	9/15/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO			Result
Aluminum	NC	NC	10000	NC	17700	20500	23700
Antimony	NC	NC	12	NC	<3.2	3.9	4
Arsenic	13	16	13	16	79.5	123	134
Barium	350	10,000	433	820	492	338	454
Beryllium	7.2	2,700	10	47	1	1.1	1.8
Cadmium	2.5	60	4	7.5	3.7	2.6	3.3
Calcium	NC	NC	10000	NC	3500	3340	3590
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	173	139	222
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.66	<0.66	<0.72
Chromium (Trivalent)	30	6800	41	NC	173	139	222
Cobalt	NC	NC	20	NC	10.9	11	13.4
Copper	50	10,000	50	1,720	381	359	436
Cyanide (Total)	27	10,000	NC	40	0.56	0.94	0.96
Iron	NC	NC	NC	NC	31700	38000	40400
Lead	63	3,900	63	450	305	304	393
Magnesium	NC	NC	NC	NC	6240	6580	7470
Manganese	1,600	10,000	1600	2,000	363	373	363
Mercury (Total)	0.18	5.7	0.18	0.73	5.6	4	11
Molybdenum	NC	NC	2	NC	<3.2	<3.2	5.3
Nickel	30	10,000	30	130	37.4	42	47.3
Potassium	NC	NC	NC	NC	3960	4110	19.5
Selenium	3.9	6,800	3.9	4	4.6	8.1	<1800
Silver	2	6,800	2	8.3	3.4	3.8	82
Sodium	NC	NC	NC	NC	<1600	2540	327
Thallium	NC	NC	5	NC	<1.6	<1.6	<1.1
Vanadium	NC	NC	39	NC	51.5	64.2	18
Zinc	109	10,000	109	2,480	299	339	128

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.6 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					1R-22.1-ENV-17-WC	1R-22.1-ENV-18-WC	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19-WC
Lab Sample ID					JB16942-7	JB17083-7	JB17083-8	JB17339-7
Sampling Date					9/19/2012	9/20/2012	9/25/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.012)	ND (0.013)
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.030)	ND (0.027)	ND (0.030)
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.026)	ND (0.023)	ND (0.025)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.016)	ND (0.014)	ND (0.016)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.015)	ND (0.014)	ND (0.015)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.024)	ND (0.021)	ND (0.024)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.017)	ND (0.015)	ND (0.017)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.015)	ND (0.013)	ND (0.015)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.016)	ND (0.014)	ND (0.016)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0096) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP
Lab Sample ID					JB17339-14	JB17339-15	JB16562-9
Sampling Date					9/25/2012	9/25/2012	9/15/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		
Aroclor 1016	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.015)
Aroclor 1221	NC	NC	NC	NC	ND (0.032)	ND (0.032)	ND (0.035)
Aroclor 1232	NC	NC	NC	NC	ND (0.027)	ND (0.027)	ND (0.029)
Aroclor 1242	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)
Aroclor 1248	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.018)
Aroclor 1254	NC	NC	NC	NC	ND (0.025)	ND (0.025)	ND (0.027)
Aroclor 1260	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.019)
Aroclor 1262	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.017)
Aroclor 1268	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)
Total PCBs	0.1	25	1	3.2	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0096) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					1R-22.1-ENV-17-WC	1R-22.1-ENV-18-WC	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19-WC
Sample ID/Depth					JB16942-7	JB17083-7	JB17083-8	JB17339-7
Lab Sample ID					9/19/2012	9/20/2012	9/20/2012	9/25/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
	4,4'-DDD	0.0033	0.18	0.0033	14	0.0926	0.78	0.28
4,4'-DDE	0.0033	120	0.0033	17	0.0563	0.165	0.128	0.165
4,4'-DDT	0.0033	94	0.0033	136	0.302	0.21	0.236	0.0792
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00050)	ND (0.00045)	ND (0.00050)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00060)	ND (0.00076)	ND (0.00067)	ND (0.00075)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	ND (0.00066)	ND (0.00058)	ND (0.00065)
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00071)	ND (0.00063)	ND (0.00071)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00041)	ND (0.00052)	ND (0.00046)	ND (0.00051)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00059)	ND (0.00052)	ND (0.00059)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00062)	ND (0.00078)	ND (0.00069)	0.001
Endosulfan-I	2.4	920	NC	102	ND (0.00039)	ND (0.00049)	ND (0.00043)	ND (0.00049)
Endosulfan-II	2.4	920	NC	102	ND (0.00052)	ND (0.00067)	ND (0.00059)	ND (0.00066)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00072)	ND (0.00091)	ND (0.00081)	ND (0.00091)
Endrin	0.014	410	0.014	0.060	ND (0.00041)	ND (0.00052)	ND (0.00046)	ND (0.00051)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.00096)	ND (0.00085)	ND (0.00095)
Endrin ketone	NC	NC	NC	NC	ND (0.00052)	ND (0.00066)	ND (0.00058)	ND (0.00065)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00046)	ND (0.00041)	ND (0.00046)
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00062)	ND (0.00055)	ND (0.00062)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00050)	ND (0.00044)	ND (0.00050)
Methoxychlor	NC	NC	1.2	900	ND (0.00056)	ND (0.00071)	ND (0.00063)	ND (0.00071)
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.011)	ND (0.013)
2,4-D	NC	NC	NC	0.5	ND (0.0052)	ND (0.0067)	ND (0.0063)	ND (0.0072)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00063)	ND (0.00081)	ND (0.00076)	ND (0.00087)
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0020)	ND (0.0019)	ND (0.0022)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0016)	ND (0.0015)	ND (0.0017)
Dicamba	NC	NC	NC	NC	ND (0.00074)	ND (0.00095)	ND (0.00089)	ND (0.0010)
Dichloroprop	NC	NC	NC	NC	ND (0.0043)	ND (0.0055)	ND (0.0051)	ND (0.0059)
Dinoseb	NC	NC	NC	NC	ND (0.0034)	ND (0.0044)	ND (0.0041)	ND (0.0047)
MCPA	NC	NC	NC	NC	ND (0.57)	ND (0.73)	ND (0.69)	ND (0.79)
MCPP	NC	NC	NC	NC	ND (0.29)	ND (0.38)	ND (0.35)	ND (0.41)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0016)	ND (0.0015)	ND (0.0017)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.016)	ND (0.015)	ND (0.017)

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00045) - Not Detected (Method Detection Limit)

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-19+20 COMP
Lab Sample ID					JB17339-14	JB17339-15
Sampling Date					9/25/2012	9/25/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO		
4,4'-DDD	0.0033	0.18	0.0033	14	10.40	4.15
4,4'-DDE	0.0033	120	0.0033	17	0.942	0.535
4,4'-DDT	0.0033	94	0.0033	136	1.16	2.08
Aldrin	0.005	1.4	0.14	0.19	ND (0.00052)	ND (0.00054)
alpha-BHC	0.02	6.8	0.04	0.02	0.0053	0.00
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00068)	ND (0.00070)
beta-BHC	0.036	14	0.6	0.09	0.0045	ND (0.00076)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00054)	0.02
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00061)	ND (0.00063)
Dieldrin	0.005	2.8	0.006	0.1	0.0026	ND (0.00083)
Endosulfan-I	2.4	920	NC	102	ND (0.00051)	ND (0.00052)
Endosulfan-II	2.4	920	NC	102	ND (0.00069)	ND (0.00071)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00095)	ND (0.00097)
Endrin	0.014	410	0.014	0.060	ND (0.00054)	ND (0.00055)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00099)	ND (0.0010)
Endrin ketone	NC	NC	NC	NC	ND (0.00068)	ND (0.00070)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00048)	ND (0.00049)
Heptachlor	0.042	29	0.14	0.38	ND (0.00064)	ND (0.00066)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00052)	ND (0.00053)
Methoxychlor	NC	NC	1.2	900	ND (0.00074)	ND (0.00076)
Toxaphene	NC	NC	NC	NC	ND (0.013)	ND (0.014)
2,4-D	NC	NC	NC	0.5	ND (0.0074)	ND (0.0070)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00089)	ND (0.00084)
2,4,5-T	NC	NC	NC	1.9	ND (0.0022)	ND (0.0021)
Dalapon	NC	NC	NC	NC	ND (0.0017)	ND (0.0017)
Dicamba	NC	NC	NC	NC	ND (0.0010)	ND (0.00098)
Dichloroprop	NC	NC	NC	NC	ND (0.0060)	ND (0.0057)
Dinoseb	NC	NC	NC	NC	ND (0.0048)	ND (0.0045)
MCPA	NC	NC	NC	NC	ND (0.80)	ND (0.76)
MCPP	NC	NC	NC	NC	ND (0.41)	ND (0.39)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0017)	ND (0.0016)
2,4-DB	NC	NC	NC	NC	ND (0.017)	ND (0.016)

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00045) - Not Detected (Method Detection Limit)

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP pH

TRC Sample ID/Depth 1R-22.1-ENV-17W+18 COMP
 Date Sampled 09/20/12
 Lab Sample No. JB17083-8A
 Matrix Soil
 Depth Interval Deep

pH TCLP	Regulatory Level*	Results
pH, Step 1 TCLP	-	8.5
pH, Step 2 TCLP	-	2.07
pH, TCLP Leachate	-	5.09

Legend

All concentrations in su (standard units)

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

TRC Sample ID/Depth	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP
Date Sampled	09/20/12	09/25/12	09/15/12
Lab Sample No.	JB17083-8/8A	JB17339-15	JB16562-9/9A
Matrix	Soil	Soil	Soil
Depth Interval	Composite	Composite	Composite

RCRA CHARACTERISTICS	Regulatory Level*	Results	Results	Results
Cyanide Reactivity (mg/kg)	250	<14	<16	<18
Sulfide Reactivity (mg/kg)	500	<140	483	<180
Corrosivity as pH (su)	<2 or >12.5	7.20 NC	7.16 NC	6.74 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200	>200	>200
Paint Filter (ml/100g)	NC	<0.50	<0.50	<0.50
Moisture, Percent (%)	NC	26.4	NA	44.2
Total Organic Halides (mg/kg)	NC	<27	<33	NA
Total Sulfur (mg/kg)	NC	NA	NA	NA

Legend

* United States Environmental Protection Agency (USEPA)

Maximum Concentration of Contaminants for Toxicity

b = No free liquids

NC - No criterion

NA - Not Analyzed

<12 - Less than the reporting limit

1R-22.1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					1R-22.1-ENV-17-WC	1R-22.1-ENV-18-WC	1R-22.1-ENV-17W+18 COMP	1R-22.1-ENV-19-WC
Lab Sample ID					JB16942-7	JB17083-7	JB17083-8	JB17339-7
Sampling Date					9/19/2012	9/20/2012	9/20/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.012)	ND (0.014)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.038)	ND (0.047)	ND (0.041)	ND (0.048)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.043)	ND (0.053)	ND (0.046)	ND (0.055)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.035)	ND (0.043)	ND (0.038)	ND (0.044)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.059)	ND (0.073)	ND (0.065)	ND (0.076)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.062)	ND (0.076)	ND (0.067)	ND (0.079)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.045)	ND (0.055)	ND (0.049)	ND (0.057)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.020)	ND (0.018)	ND (0.021)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.017)	ND (0.015)	ND (0.018)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.012)	ND (0.015)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.037)	ND (0.046)	ND (0.040)	ND (0.048)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.021)	ND (0.025)	ND (0.022)	ND (0.026)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.042)	ND (0.052)	ND (0.046)	ND (0.054)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.020)	ND (0.018)	ND (0.021)
2-Nitrophenol	NC	NC	7	0.3	ND (0.039)	ND (0.048)	ND (0.042)	ND (0.050)
3,4-Methylphenol	NC	NC	NC	NC	ND (0.047)	ND (0.058)	ND (0.051)	ND (0.060)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0093)	ND (0.012)	ND (0.010)	ND (0.012)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.015)	ND (0.018)	ND (0.016)	ND (0.019)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.045)	ND (0.055)	ND (0.049)	ND (0.057)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.016)	ND (0.015)	ND (0.017)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.037)	ND (0.045)	ND (0.040)	ND (0.047)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)	ND (0.015)	ND (0.013)	ND (0.015)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.012)	ND (0.014)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.018)	ND (0.016)	ND (0.018)
4-Nitrophenol	NC	NC	7	0.3	ND (0.062)	ND (0.077)	ND (0.068)	ND (0.080)
Acenaphthene	20	1,000	20	98	ND (0.011)	ND (0.013)	0.0192	J ND (0.014)
Acenaphthylene	100	1,000	NC	107	0.0194	J 0.0677	0.0268	J 0.0660
Acetophenone	NC	NC	NC	NC	ND (0.0065)	ND (0.0080)	ND (0.0071)	ND (0.0083)
Anthracene	100	1,000	NC	1,000	0.0189	J 0.0936	0.0560	0.0761
Atrazine	NC	NC	NC	NC	ND (0.0072)	ND (0.0090)	ND (0.0079)	ND (0.0093)
Benzaldehyde	NC	NC	NC	NC	ND (0.0085)	ND (0.010)	ND (0.0092)	ND (0.011)
Benzo(a)anthracene	1	11	NC	1	0.0462	0.2230	0.1260	0.1790
Benzo(a)pyrene	1	1	2.6	22	0.0520	0.2220	0.1160	0.2130
Benzo(b)fluoranthene	1	11	NC	2	0.0392	0.2030	0.1030	0.1600
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.0320	J 0.1500	0.0698	0.1300
Benzo(k)fluoranthene	1	110	NC	2	0.0287	J 0.1760	0.0760	0.1470
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.018)	ND (0.016)	ND (0.019)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.012)	ND (0.014)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.032)	0.1520	0.1130	0.0960
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	ND (0.026)	ND (0.023)	ND (0.027)
Caprolactam	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.015)
Carbazole	NC	NC	NC	NC	ND (0.017)	ND (0.021)	ND (0.019)	ND (0.022)
Chrysene	1	110	NC	1	0.0554	0.2500	0.1380	0.2360
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0151	J 0.0464	0.0269	J 0.0423
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.014)
Diethyl phthalate	NC	NC	100	7	ND (0.013)	ND (0.015)	ND (0.014)	ND (0.016)
Dimethyl phthalate	NC	NC	200	27	0.0427	J 0.0427	ND (0.016)	0.2060
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0082)	ND (0.010)	ND (0.0089)	ND (0.010)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.018)	ND (0.022)	ND (0.020)	ND (0.023)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0043)	ND (0.0053)	ND (0.0046)	ND (0.0055)
Fluoranthene	100	1,000	NC	1,000	0.0753	0.3250	0.2050	0.2650
Fluorene	30	1,000	30	386	ND (0.012)	0.0188	J ND (0.013)	ND (0.015)
Hexachlorobenzene	0	12	NC	3	ND (0.012)	ND (0.015)	ND (0.013)	ND (0.015)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.011)	ND (0.013)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.038)	ND (0.046)	ND (0.041)	ND (0.048)
Hexachloroethane	NC	NC	NC	NC	ND (0.010)	ND (0.013)	ND (0.011)	ND (0.013)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.0271	J 0.1330	0.0607	0.1030
Isophorone	NC	NC	NC	4	ND (0.0099)	ND (0.012)	ND (0.011)	ND (0.013)
Naphthalene	12	1,000	NC	12	ND (0.010)	0.0708	0.0247	J 0.0237
Nitrobenzene	NC	140	40	0.17	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.014)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0090)	ND (0.011)	ND (0.0098)	ND (0.011)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.022)	ND (0.027)	ND (0.024)	ND (0.028)
Pentachlorophenol	1	55	0.8	1	ND (0.063)	ND (0.078)	ND (0.069)	ND (0.080)
Phenanthrene	100	1,000	NC	1,000	0.0227	J 0.1100	0.0642	0.0617
Phenol	0.33	1,000	30	0.33	ND (0.039)	ND (0.048)	ND (0.042)	ND (0.049)
Pyrene	100	1,000	NC	1,000	0.0953	0.3370	0.2200	0.3110
Total SVOCs	NC	NC	NC	NC	0.47	2.24	0.89	2.00

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-19+20 COMP	1R-22.1-HDD-1 COMP	
Lab Sample ID					JB17339-14	JB17339-15	JB16562-9	
Sampling Date					9/25/2012	9/25/2012	9/15/2012	
Matrix					Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.054)	ND (0.054)	ND (0.052)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.061)	ND (0.061)	ND (0.059)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.049)	ND (0.050)	ND (0.048)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.085)	ND (0.085)	ND (0.082)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.088)	ND (0.089)	ND (0.086)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.064)	ND (0.064)	ND (0.062)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.023)	ND (0.023)	ND (0.022)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.020)	ND (0.020)	ND (0.019)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.053)	ND (0.053)	ND (0.051)	
2-Methylnaphthalene	NC	NC	NC	36.4	0.0855	J 0.1160	0.0327	J
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.060)	ND (0.060)	ND (0.058)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.023)	ND (0.023)	ND (0.022)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.056)	ND (0.054)	
3,4-Methylphenol	NC	NC	NC	NC	ND (0.067)	ND (0.067)	ND (0.065)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.021)	ND (0.021)	ND (0.020)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.064)	ND (0.064)	ND (0.062)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.019)	ND (0.019)	ND (0.018)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.053)	ND (0.053)	ND (0.051)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.017)	ND (0.017)	ND (0.016)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.015)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.020)	ND (0.021)	ND (0.020)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.089)	ND (0.089)	ND (0.086)	
Acenaphthene	20	1,000	20	98	0.0811	0.1040	ND (0.015)	
Acenaphthylene	100	1,000	NC	107	0.2360	0.2850	0.1190	
Acetophenone	NC	NC	NC	NC	ND (0.0093)	ND (0.0093)	ND (0.0090)	
Anthracene	100	1,000	NC	1,000	0.3490	0.4030	0.0602	
Atrazine	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	
Benzaldehyde	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	
Benzo(a)anthracene	1	11	NC	1	0.6850	0.8970	0.1310	
Benzo(a)pyrene	1	1	2.6	22	0.6640	0.5310	0.1780	
Benzo(b)fluoranthene	1	11	NC	2	0.5810	0.5610	0.1880	
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.4210	0.3490	0.1610	
Benzo(k)fluoranthene	1	110	NC	2	0.4960	0.2780	0.0895	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.021)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.015)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.5320	1.3600	0.1670	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.030)	ND (0.031)	ND (0.029)	
Caprolactam	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.016)	
Carbazole	NC	NC	NC	NC	0.0607	J ND (0.024)	ND (0.024)	
Chrysene	1	110	NC	1	0.7860	0.9820	0.1830	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.2030	0.1340	J 0.0430	J
Dibenzofuran	7	1,000	NC	210	0.0524	J 0.0646	ND (0.015)	
Diethyl phthalate	NC	NC	100	7	ND (0.018)	ND (0.018)	ND (0.017)	
Dimethyl phthalate	NC	NC	200	27	ND (0.019)	ND (0.019)	0.2140	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.012)	ND (0.012)	ND (0.011)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.026)	ND (0.026)	ND (0.025)	
1,1-Biphenyl	NC	NC	60	NC	0.0259	J 0.0370	J ND (0.0059)	
Fluoranthene	100	1,000	NC	1,000	0.9470	1.0600	0.1950	
Fluorene	30	1,000	30	386	0.0715	0.1160	ND (0.017)	
Hexachlorobenzene	0	12	NC	3	ND (0.017)	ND (0.017)	ND (0.017)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.014)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.054)	ND (0.054)	ND (0.052)	
Hexachloroethane	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.014)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.3730	0.2910	0.1290	
Isophorone	NC	NC	NC	4	ND (0.014)	ND (0.014)	ND (0.014)	
Naphthalene	12	1,000	NC	12	0.1630	0.2220	0.0396	J
Nitrobenzene	NC	140	40	0.17	ND (0.015)	ND (0.015)	ND (0.015)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.012)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.031)	ND (0.032)	ND (0.030)	
Pentachlorophenol	1	55	0.8	1	ND (0.090)	ND (0.090)	ND (0.087)	
Phenanthrene	100	1,000	NC	1,000	0.3680	0.3960	0.0744	
Phenol	0.33	1,000	30	0.33	ND (0.055)	ND (0.055)	ND (0.053)	
Pyrene	100	1,000	NC	1,000	1.3200	1.8000	0.1590	
Total SVOCs	NC	NC	NC	NC	7.18	0.89	2.00	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-17-WC	1R-22.1-ENV-17-WC/2	1R-22.1-ENV-17-WC/4	1R-22.1-ENV-17-WC/6
Lab Sample ID					JB16942-7	JB16942-1	JB16942-2	JB16942-3
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	NA	ND (1.8)	121	410

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-17-WC/8	1R-22.1-ENV-17-WC	1R-22.1-ENV-17-WC/2	1R-22.1-ENV-17-WC/4
Lab Sample ID					JB16942-4	JB16942-7	JB16942-1	JB16942-2
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	114	NA	ND (1.8)	121

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-17-WC/6	1R-22.1-ENV-17-WC/8	1R-22.1-ENV-18-WC	1R-22.1-ENV-18-WC/2
Lab Sample ID					JB16942-3	JB16942-4	JB17083-7	JB17083-3
Sampling Date					9/19/2012	9/19/2012	9/20/2012	9/20/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	410	114	NA	787

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-18-WC/4	1R-22.1-ENV-18-WC/6	1R-22.1-ENV-18-WC/8	1R-22.1-ENV-19-WC
Lab Sample ID					JB17083-4	JB17083-5	JB17083-6	JB17339-7
Sampling Date					9/20/2012	9/20/2012	9/20/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	86	243	220	NA

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-19-WC/2	1R-22.1-ENV-19-WC/4	1R-22.1-ENV-19-WC/6	1R-22.1-ENV-19-WC/8
Lab Sample ID					JB17339-3	JB17339-4	JB17339-5	JB17339-6
Sampling Date					9/25/2012	9/25/2012	9/25/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	417	1160	284	308

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-20-WC	1R-22.1-ENV-20-WC/2	1R-22.1-ENV-20-WC/4	1R-22.1-ENV-20-WC/6
Lab Sample ID					JB17339-14	JB17339-10	JB17339-11	JB17339-12
Sampling Date					9/25/2012	9/25/2012	9/25/2012	9/25/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	NA	590	392	476

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-ENV-20-WC/8	1R-22.1-HDD-1 COMP	1R-22.1-HDD-1A/0-2	1R-22.1-HDD-1A/2-4
Lab Sample ID					JB17339-13	JB16562-9	JB16562-1	JB16562-2
Sampling Date					9/25/2012	9/15/2012	9/15/2012	9/15/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	1150	NA	336	657

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					1R-22.1-HDD-1A/4-8	1R-22.1-HDD-1B/0-2	1R-22.1-HDD-1B/2-4	1R-22.1-HDD-1B/4-6
Lab Sample ID					JB16562-3	JB16562-4	JB16562-5	JB16562-6
Sampling Date					9/15/2012	9/15/2012	9/15/2012	9/15/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	434	710	999	320

Notes:
 NC - No Criterion
 ND (1.8) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

1R-22.1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

TRC Sample No.: 1R-22.1-HDD-1 COMP
 Date Sampled: 09/15/12
 Lab Sample No.: JB16562-9A
 Laboratory: Accutest
 Matrix: Soil

VOCs	EPA TCLP Regulatory Level (mg/L)		
Benzene	0.5	ND (0.0012)	
2-Butanone (MEK)	200.0	ND (0.012)	
Carbon tetrachloride	0.5	ND (0.0011)	
Chlorobenzene	100.0	ND (0.0011)	
Chloroform	6.0	ND (0.0010)	
1,4-Dichlorobenzene	7.5	ND (0.0015)	
1,2-Dichloroethane	0.5	ND (0.0013)	
1,1-Dichloroethene	0.7	ND (0.00096)	
Tetrachloroethene	0.7	ND (0.0014)	
Trichloroethene	0.5	ND (0.0011)	
Vinyl chloride	0.2	ND (0.0010)	

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

1R-22.1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	1R-22.1-HDD-1 COMP
					Lab Sample ID	JB16562-9
					Sampling Date	9/15/2012
					Matrix	Soil
					Units	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00020)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00025)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00033)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00049)	
1,2,3-Trichlorobenzene	NC	NC	NC	NC	ND (0.00031)	
1,2,4-Trichlorobenzene	NC	NC	NC	NC	ND (0.00027)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00024)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00036)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00026)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00029)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00036)	
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00034)	
1,4-Dioxane	0.1	250	0.001	0.1	ND (0.11)	
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0046)	
2-Hexanone	NC	NC	NC	NC	ND (0.0012)	
4-Methyl-2-pentanone	NC	NC	NC	NC	ND (0.0014)	
Acetone	0.05	1,000	0.002	0.05	ND (0.0032)	
Acrolein	NC	NC	NC	NC	ND (0.0054)	
Acrylonitrile	NC	NC	NC	NC	ND (0.0029)	
Benzene	0.06	89	0.07	0.06	ND (0.00023)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00051)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00020)	
Bromoform	NC	NC	NC	NC	ND (0.00029)	
Bromomethane	NC	NC	NC	NC	ND (0.00052)	
Carbon disulfide	NC	NC	NC	NC	ND (0.00022)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00025)	
Chlorobenzene	1	1,000	0.04	1	ND (0.00021)	
Chloroethane	NC	NC	NC	NC	ND (0.00043)	
Chloroform	0.37	700	0.012	0.37	ND (0.00016)	
Chloromethane	NC	NC	NC	NC	ND (0.00035)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00035)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00027)	
Cyclohexane	NC	NC	NC	NC	ND (0.00024)	
Dibromochloromethane	NC	NC	NC	NC	ND (0.00031)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00043)	
Ethylbenzene	1	780	NC	1	ND (0.00050)	
Freon TF ⁽²⁾	NC	NC	NC	NC	ND (0.00082)	
Isopropylbenzene	NC	NC	NC	NC	ND (0.00014)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00033)	
Methyl acetate	NC	NC	NC	NC	ND (0.0050)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00032)	
Methylene Chloride	0.05	1,000	0.012	0.05	ND (0.0024)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00045)	
n-Butylbenzene	12	1,000	NC	12	NA	
n-Propylbenzene	4	1,000	NC	4	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.00026	1.6 ⁽¹⁾	ND (0.00027)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	
Styrene	NC	NC	NC	NC	ND (0.00017)	
tert-Butylbenzene	6	1,000	NC	6	NA	
Tetrachloroethene (PCE)	1	300	0.002	1	ND (0.00033)	
Toluene	0.7	1,000	0.036	0.7	ND (0.00020)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00045)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00030)	
Trichloroethene (TCE)	0.47	400	0.002	0.47	ND (0.00033)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00057)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00027)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00027)	
Total VOCs	NC	NC	NC	NC	ND	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NA - Not Analyzed

NC - No Criterion

ND (0.00035) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

						Sample ID/Depth	NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5	
						Lab Sample ID	JA89580-1	JA89580-2/2RR	
						Sampling Date	10/18/2011	10/18/2011	
						Matrix	Soil	Soil	
GENERAL CHEMISTRY	Units	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
Chemical Oxygen Demand	mg/kg	NC	NC	NC	NC	NA		39200	a
Iron, Ferrous	%	NC	NC	NC	NC	NA		1.5	b
Sulfide Screen	+/-	NC	NC	NC	NC	NA		NEGATIVE	c
Total Organic Carbon	mg/kg	NC	NC	NC	NC	NA		25200	a
Redox Potential Vs H2	mv	NC	NC	NC	NC	153		189	
Solids, Percent	%	NC	NC	NC	NC	85.4		84.8	
pH	su	NC	NC	NC	NC	11.17		9.97	

Notes:

mg/kg - milligrams per kilogram

NA - Not Analyzed

NC - No Criterion

SCO - Soil Cleanup Objective

a - Analysis done out of holding time.

b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

c - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

NYC-2 TRACT PRE-CHARACTERIZATION
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID/Depth	NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5
					Lab Sample ID	JA89580-1/1R	JA89580-2/2R
					Sampling Date	10/18/2011	10/18/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aluminum	NC	NC	10000	NC	7850		10900
Antimony	NC	NC	12	NC	<2.2		<2.4
Arsenic	13	16	13	16	8.4		15.9
Barium	350	10,000	433	820	38.1		93.6
Beryllium	7.2	2,700	10	47	0.36		0.73
Cadmium	2.5	60	4	7.5	<0.56		0.67
Calcium	NC	NC	10000	NC	52700		54900
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	10.3		44.6
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47 (0.82)		0.68(<0.47)
Cobalt	NC	NC	20	NC	7.1		6.8
Copper	50	10,000	50	1,720	57.2		82.6
Cyanide (Total)	27	10,000	NC	40	NA		NA
Iron	NC	NC	NC	NC	17100		24100
Lead	63	3,900	63	450	29.3		306
Magnesium	NC	NC	NC	NC	26200		23600
Manganese	1,600	10,000	1600	2,000	224		364
Mercury (Total)	0.18	5.7	0.18	0.73	0.096		0.93
Nickel	30	10,000	30	130	28.6		45.5
Potassium	NC	NC	NC	NC	1320		1840
Selenium	3.9	6,800	3.9	4	<2.2		<2.4
Silver	2	6,800	2	8.3	<0.56		<0.59
Sodium	NC	NC	NC	NC	<1100		<1200
Thallium	NC	NC	5	NC	<1.1		<1.2
Vanadium	NC	NC	39	NC	59.2		43.6
Zinc	109	10,000	109	2,480	54.5		123

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5
Lab Sample ID					JA89580-1	JA89580-2
Sampling Date					10/18/2011	10/18/2011
Matrix					Soil	Soil
Units					mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.0090)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0090) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

		Sample ID/Depth		NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5	
		Lab Sample ID		JA89580-1	JA89580-2	
		Sampling Date		10/18/2011	10/18/2011	
		Matrix		Soil	Soil	
		Units		mg/kg	mg/kg	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00041)	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	ND (0.00051)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	0.0027	a ND (0.00045)
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	0.004	b ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00054)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00034)
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	0.0015
Endrin ketone	NC	NC	NC	NC	0.0037	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.0087)	ND (0.0087)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00069)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)

Notes:

- a - Reported from 2nd signal due to interference on 1st signal.
- b - More than 40 % RPD for detected concentrations between the two GC columns.
- mg/kg - milligrams per kilogram
- NC - No Criterion
- NA - Not Analyzed
- ND (0.00035) - Not Detected (Method Detection Limit)
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
- SCO - Soil Cleanup Objective

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth		NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5			
Lab Sample ID		JA89580-1	JA89580-2			
Sampling Date		10/18/2011	10/18/2011			
Matrix		Soil	Soil			
Units		mg/kg	mg/kg			
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.051)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.17)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.19)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.16)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.27)	ND (0.054)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.28)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.20)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.073)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.064)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.052)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.17)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.093)	0.0339
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.19)	ND (0.038)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.074)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.18)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.21)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.042)	ND (0.0086)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.067)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.20)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.061)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.17)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.054)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.050)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.065)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.28)	ND (0.057)
Acenaphthene	20	1,000	20	98	ND (0.049)	0.0834
Acenaphthylene	100	1,000	NC	107	ND (0.054)	0.0171
Acetophenone	NC	NC	NC	NC	ND (0.029)	ND (0.0059)
Anthracene	100	1,000	NC	1,000	ND (0.059)	0.207
Atrazine	NC	NC	NC	NC	ND (0.033)	ND (0.0066)
Benzaldehyde	NC	NC	NC	NC	ND (0.038)	ND (0.0077)
Benzo[a]anthracene	1	11	NC	1	0.257	0.47
Benzo[a]pyrene	1	1	2.6	22	0.249	0.374
Benzo[b]fluoranthene	1	11	NC	2	0.261	0.357
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.278	0.232
Benzo[k]fluoranthene	1	110	NC	2	0.147	J 0.288
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.068)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.050)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	0.462	0.153
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.097)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.053)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.077)	0.0401
Chrysene	1	110	NC	1	0.447	0.465
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.085	J 0.0788
Dibenzofuran	7	1,000	NC	210	ND (0.050)	0.0504
Diethyl phthalate	NC	NC	100	7	ND (0.057)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.282	J 0.123
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.037)	ND (0.0075)
Di-n-octyl phthalate	NC	NC	NC	120	0.181	J 0.179
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	NA	NA
Fluoranthene	100	1,000	NC	1,000	0.495	1.2
Fluorene	30	1,000	30	386	ND (0.055)	0.0715
Hexachlorobenzene	0	12	NC	3	ND (0.055)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.047)	ND (0.0094)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.17)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.047)	ND (0.0094)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.154	J 0.206
Isophorone	NC	NC	NC	4	ND (0.045)	ND (0.0091)
Naphthalene	12	1,000	NC	12	ND (0.046)	0.0392
Nitrobenzene	NC	140	40	0.17	ND (0.048)	ND (0.0097)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.041)	ND (0.0082)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.10)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.29)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	0.305	0.925
Phenol	0.33	1,000	30	0.33	ND (0.18)	ND (0.035)
Pyrene	100	1,000	NC	1,000	0.541	1.02
Total SVOCs	NC	NC	NC	NC	4.14	6.61

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- NC - No Criterion
- NA - Not Analyzed
- ND (0.051) - Not Detected (Method Detection Limit)
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
- SCO - Soil Cleanup Objective
- * - Recovery or RPD exceeds control limits

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

		Sample ID/Depth	NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5		
		Lab Sample ID	JA89580-1	JA89580-2		
		Sampling Date	10/18/2011	10/18/2011		
		Matrix	Soil	Soil		
		Units	mg/kg	mg/kg		
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.4)	ND (2.4)
TPH-DRO (C10-C44)	NC	NC	NC	NC	885	167
Total Concentration	NC	NC	NC	NC	885	167

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (2.4) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

NYC-2 TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

		Sample ID/Depth		NYC-2-ENV-1W/2	NYC-2-ENV-1W/7.5	
		Lab Sample ID		JA89580-1	JA89580-2	
		Sampling Date		10/18/2011	10/18/2011	
		Matrix		Soil	Soil	
		Units		mg/kg	mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00027)	ND (0.00022)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)	ND (0.00016)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00040)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00024)	ND (0.00020)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00068)	ND (0.00056)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00048)	ND (0.00040)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00038)	ND (0.00031)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0014)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00022)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)	ND (0.00026)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00020)	ND (0.00017)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00029)	ND (0.00025)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00021)	ND (0.00018)
1,4-Dichlorobenzene	2	250	0.02	2	ND (0.00019)	ND (0.00016)
1,4-Dioxane	0.1	250	1	0.1	ND (0.064)	ND (0.054)
2-Butanone (MEK)	0.12	1,000	0.1	0.12	ND (0.0048)	ND (0.0040)
2-Hexanone	NC	NC	NC	NC	ND (0.0027)	ND (0.0023)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0029)	ND (0.0024)
Acetone	0.05	1,000	2.2	0.05	0.0178	0.0231
Benzene	0.06	89	70	0.06	0.00027	J ND (0.00012)
Bromochloromethane	NC	NC	NC	NC	ND (0.00057)	ND (0.00048)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00021)
Bromoform	NC	NC	NC	NC	ND (0.00083)	ND (0.00070)
Bromomethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00036)
Carbon disulfide	NC	NC	NC	2.7	0.0014	J 0.00042
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00038)	ND (0.00032)
Chlorobenzene	1	1,000	40	1	ND (0.00036)	ND (0.00030)
Chloroethane	NC	NC	NC	1.9	ND (0.00045)	ND (0.00038)
Chloroform	0.37	700	12	0.37	ND (0.00053)	ND (0.00044)
Chloromethane	NC	NC	NC	NC	ND (0.00069)	ND (0.00057)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)	ND (0.00030)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00014)
Cyclohexane	NC	NC	NC	NC	ND (0.00042)	ND (0.00035)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00015)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00035)	ND (0.00030)
Ethylbenzene	1	780	NC	1	ND (0.00016)	ND (0.00014)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00079)	ND (0.00066)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)	ND (0.00013)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00035)	ND (0.00029)
Methyl acetate	NC	NC	NC	NC	ND (0.0025)	ND (0.0020)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00027)	ND (0.00023)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00025)	ND (0.00021)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00016)
n-Butylbenzene	12	1,000	NC	12	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00017)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA
Styrene	NC	NC	300	NC	ND (0.00020)	ND (0.00017)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00021)	ND (0.00018)
Toluene	0.7	1,000	36	0.7	ND (0.00042)	ND (0.00035)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00047)	ND (0.00039)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00037)	ND (0.00031)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00027)	ND (0.00023)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00053)	ND (0.00044)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00051)	ND (0.00042)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00020)	ND (0.00017)
Total VOCs	NC	NC	NC	NC	0.02	0.02

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00027) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

* - Recovery or RPD exceeds control limits

J - Value is estimated

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Sample ID/Depth								
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Chemical Oxygen Demand (mg/kg)	NC	NC	NC	NC	NA	NA	NA	NA
Iron, Ferrous (%)	NC	NC	NC	NC	NA	NA	NA	NA
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA
Total Organic Carbon (mg/kg)	NC	NC	NC	NC	NA	NA	NA	NA
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	309	357	295	310
Solids, Percent (%)	NC	NC	NC	NC	87.1	79.7	86.5	83.4
pH (su)	NC	NC	NC	NC	8.41	7.06	8.45	7.7

Notes:

NC - No Criterion

NA - Not Analyzed

SCO - Soil Cleanup Objective

a = The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

b = The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
					Lab Sample ID	JB13937-2	JB15634-5	JB15634-8	JB13937-6
					Sampling Date	8/16/2012	9/6/2012	9/6/2012	8/16/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Chemical Oxygen Demand (mg/kg)	NC	NC	NC	NC	NA	NA	NA	NA	
Iron, Ferrous (%)	NC	NC	NC	NC	NA	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	
Total Organic Carbon (mg/kg)	NC	NC	NC	NC	NA	NA	NA	NA	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	257	219	200	143	
Solids, Percent (%)	NC	NC	NC	NC	90.9	72.8	80.9	88.6	
pH (su)	NC	NC	NC	NC	8.86	8.65	8.93	11.1	

Notes:

NC - No Criterion

NA - Not Analyzed

SCO - Soil Cleanup Objective

a = The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

b = The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
					Lab Sample ID	JB15634-13	JB16099-1	JB16360-1	JB14034-2
					Sampling Date	9/6/2012	9/11/2012	9/14/2012	8/17/2012
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Chemical Oxygen Demand (mg/kg)	NC	NC	NC	NC	NA	NA	NA	60000	
Iron, Ferrous (%)	NC	NC	NC	NC	NA	NA	NA	0.48	a
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NEGATIVE	b
Total Organic Carbon (mg/kg)	NC	NC	NC	NC	NA	NA	NA	20700	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	198	205	171	289	
Solids, Percent (%)	NC	NC	NC	NC	89.6	89.9	80.3	95.9	
pH (su)	NC	NC	NC	NC	10.58	9.69	11.52	8.14	

Notes:

NC - No Criterion

NA - Not Analyzed

SCO - Soil Cleanup Objective

a = The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

b = The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
					Lab Sample ID	JB14034-5	JB19256-1	JB19256-2
					Sampling Date	8/17/2012	10/13/2012	10/13/2012
					Matrix	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	
Chemical Oxygen Demand (mg/kg)	NC	NC	NC	NC	NA	NA	NA	
Iron, Ferrous (%)	NC	NC	NC	NC	NA	NA	NA	
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	
Total Organic Carbon (mg/kg)	NC	NC	NC	NC	NA	NA	NA	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	293	200	320	
Solids, Percent (%)	NC	NC	NC	NC	82.1	90.9	73.7	
pH (su)	NC	NC	NC	NC	8.81	11.91	8.81	

Notes:

NC - No Criterion

NA - Not Analyzed

SCO - Soil Cleanup Objective

a = The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

b = The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18/18R	JB15634-19/19R
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
					Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6320	8400	5860	5710
Antimony	NC	NC	12	NC	<2.4	4.3	<2.4	<2.5
Arsenic	13	16	13	16	7.9	13.7	5	4.5
Barium	350	10,000	433	820	167	66.1	66.7	94.2
Beryllium	7.2	2,700	10	47	0.41	0.51	0.42	0.41
Cadmium	2.5	60	4	7.5	<0.60	<0.62	<0.60	<0.62
Calcium	NC	NC	10000	NC	8140	1320	4810	3470
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.6	27.5	10.5	16.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.49	1.4	0.68 (<0.46)	1 (0.62)
Cobalt	NC	NC	20	NC	<6.0	<6.2	<6.0	<6.2
Copper	50	10,000	50	1,720	97.5	95.5	51.7	58
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	13500	14200	17200	14500
Lead	63	3,900	63	450	646	520	187	168
Magnesium	NC	NC	NC	NC	3440	2720	1980	2130
Manganese	1,600	10,000	1600	2,000	268	159	278	261
Mercury (Total)	0.18	5.7	0.18	0.73	1.3	0.68	0.56	0.16
Molybdenum	NC	NC	2	NC	NA	NA	<2.4	<2.5
Nickel	30	10,000	30	130	20.5	21.7	14.1	18.6
Potassium	NC	NC	NC	NC	1270	1270	<1200	1210
Selenium	3.9	6,800	3.9	4	<2.4	<2.5	<2.4	<2.5
Silver	2	6,800	2	8.3	0.68	0.87	0.75	<0.62
Sodium	NC	NC	NC	NC	1390	2020	<1200	1540
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	18	18.3	15.7	16.3
Zinc	109	10,000	109	2,480	134	206	132	105

Notes:
 mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
 NC - No Criterion
 NA - Not analyzed
 <2.4 - Less than the Method Detection Limit
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth		NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4			
Lab Sample ID		JB13937-2A/2	JB15634-5/5R	JB15634-8/8R	JB13937-6			
Sampling Date		8/16/2012	9/6/2012	9/6/2012	8/16/2012			
Matrix		Soil	Soil	Soil	Soil			
Units		mg/kg	mg/kg	mg/kg	mg/kg			
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	3920	8370	10000	7670
Antimony	NC	NC	12	NC	<2.2	10.8	<2.6	<2.3
Arsenic	13	16	13	16	7.4	9.2	6.1	7
Barium	350	10,000	433	820	203	214	115	102
Beryllium	7.2	2,700	10	47	0.4	0.75	0.54	0.49
Cadmium	2.5	60	4	7.5	<0.54	<0.65	<0.65	<0.58
Calcium	NC	NC	10000	NC	23100	6510	22600	22400
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	11.8	19.5	15.8	18.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.53	<0.55 (<0.55)	<0.49 (<0.49)	<0.45
Cobalt	NC	NC	20	NC	<5.4	7.6	<6.5	<5.8
Copper	50	10,000	50	1,720	564	48.8	71.6	64
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	10300	17100	14800	14100
Lead	63	3,900	63	450	462	377	663	242
Magnesium	NC	NC	NC	NC	10100	6290	4410	4610
Manganese	1,600	10,000	1600	2,000	123	306	227	216
Mercury (Total)	0.18	5.7	0.18	0.73	0.89	0.44	1.8	0.6
Molybdenum	NC	NC	2	NC	<2.2	2.7	<2.6	<2.3
Nickel	30	10,000	30	130	22.6	17.5	17.1	18.7
Potassium	NC	NC	NC	NC	1140	1380	1600	2150
Selenium	3.9	6,800	3.9	4	<2.2	<2.6	<2.6	<2.3
Silver	2	6,800	2	8.3	<0.54	<0.65	<0.65	0.59
Sodium	NC	NC	NC	NC	<1100	1680	1740	<1200
Thallium	NC	NC	5	NC	<1.1	<1.3	<1.3	<1.2
Vanadium	NC	NC	39	NC	16.1	30.2	21.1	22.8
Zinc	109	10,000	109	2,480	251	132	145	190

Notes:
 mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
 NC - No Criterion
 NA - Not analyzed
 <2.4 - Less than the Method Detection Limit
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
Lab Sample ID					JB15634-13/13R	JB16099-1	JB16360-1/1A	JB14034-2/2R
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
					Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	12700	6740	6460	6840
Antimony	NC	NC	12	NC	<2.2	2.5	4.7	<2.1
Arsenic	13	16	13	16	2.7	7.8	6.1	15.9
Barium	350	10,000	433	820	258	106	81.9	60.7
Beryllium	7.2	2,700	10	47	0.4	0.25	0.38	0.34
Cadmium	2.5	60	4	7.5	<0.55	<0.57	<0.63	<0.52
Calcium	NC	NC	10000	NC	36800	15200	16500	9010
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	18.8	12.5	23.6	32.4
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.45 (0.77)	<0.44	<0.50	<0.42 (1.3)
Cobalt	NC	NC	20	NC	8.6	<5.7	<6.3	<5.2
Copper	50	10,000	50	1,720	23.6	68.6	59.1	33.9
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	20300	13500	14100	10900
Lead	63	3,900	63	450	33.2	235	303	92.3
Magnesium	NC	NC	NC	NC	8360	3340	5450	4540
Manganese	1,600	10,000	1600	2,000	237	202	225	169
Mercury (Total)	0.18	5.7	0.18	0.73	0.057	2.3	0.59	0.11
Molybdenum	NC	NC	2	NC	<2.2	<2.3	<2.5	NA
Nickel	30	10,000	30	130	15.1	12.5	20.5	10.8
Potassium	NC	NC	NC	NC	6620	1910	<1300	1060
Selenium	3.9	6,800	3.9	4	<2.2	<2.3	<2.5	<2.1
Silver	2	6,800	2	8.3	<0.55	0.89	0.83	<0.52
Sodium	NC	NC	NC	NC	2620	1210	1670	<1000
Thallium	NC	NC	5	NC	<1.1	<1.1	<1.3	<1.0
Vanadium	NC	NC	39	NC	33.1	18.4	19	20.8
Zinc	109	10,000	109	2,480	74.8	164	121	106

Notes:
 mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
 NC - No Criterion
 NA - Not analyzed
 <2.4 - Less than the Method Detection Limit
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
Lab Sample ID					JB14034-5/5R	JB19256-1/1R	JB19256-2/2R
Sampling Date					8/17/2012	10/13/2012	10/13/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		
					Result	Result	Result
Aluminum	NC	NC	10000	NC	9660	9340	10300
Antimony	NC	NC	12	NC	3.7	<2.2	<2.6
Arsenic	13	16	13	16	16.8	3.5	18.8
Barium	350	10,000	433	820	560	104	581
Beryllium	7.2	2,700	10	47	0.72	0.27	1.3
Cadmium	2.5	60	4	7.5	<0.59	<0.56	<0.66
Calcium	NC	NC	10000	NC	16400	65900	18200
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	18.9	22.5	17.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.49 (0.53)	0.54 (0.87)	<0.54 (<0.54)
Cobalt	NC	NC	20	NC	7.7	7.8	9.1
Copper	50	10,000	50	1,720	121	20.9	46.6
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA
Iron	NC	NC	NC	NC	21900	13000	20000
Lead	63	3,900	63	450	521	39.1	331
Magnesium	NC	NC	NC	NC	2770	14800	1810
Manganese	1,600	10,000	1600	2,000	321	234	321
Mercury (Total)	0.18	5.7	0.18	0.73	0.98	0.087	0.13
Molybdenum	NC	NC	2	NC	-	<2.2	8
Nickel	30	10,000	30	130	19.2	17.3	29
Potassium	NC	NC	NC	NC	1380	3760	<1300
Selenium	3.9	6,800	3.9	4	<2.4	<2.2	<2.6
Silver	2	6,800	2	8.3	1.9	<0.56	<0.66
Sodium	NC	NC	NC	NC	<1200	<1100	1860
Thallium	NC	NC	5	NC	<1.2	<1.1	<1.3
Vanadium	NC	NC	39	NC	27	25.2	44.1
Zinc	109	10,000	109	2,480	201	55.1	25

Notes:
 mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
 NC - No Criterion
 NA - Not analyzed
 <2.4 - Less than the Method Detection Limit
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0094)	ND (0.010)	ND (0.0095)	ND (0.0093)
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.017)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0094) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
Lab Sample ID					JB13937-2	JB15634-5	JB15634-8	JB13937-6
Sampling Date					8/16/2012	9/6/2012	9/6/2012	8/16/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0093)	ND (0.011)	ND (0.011)	ND (0.0096)
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.026)	ND (0.024)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.022)	ND (0.020)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.020)	ND (0.019)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.014)	ND (0.013)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0094) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO

exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
Lab Sample ID					JB15634-13	JB16099-1	JB16360-1	JB14034-2
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.0095)	ND (0.011)	ND (0.0087)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.022)	ND (0.025)	ND (0.020)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.021)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.013)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.019)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.014)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.0099)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0094) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO

exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
Lab Sample ID					JB14034-5	JB19256-1	JB19256-2
Sampling Date					8/17/2012	10/13/2012	10/13/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0095)	ND (0.011)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.022)	ND (0.025)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.019)	ND (0.021)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.013)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.017)	ND (0.019)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.014)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)
Total PCBs	0.1	25	1	3.2	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0094) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00037)	ND (0.00039)	ND (0.00037)	ND (0.00037)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00043)	ND (0.00045)	ND (0.00043)	ND (0.00042)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00053)	ND (0.00056)	ND (0.00053)	ND (0.00053)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00036)	ND (0.00038)	ND (0.00036)	ND (0.00036)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00054)	ND (0.00058)	ND (0.00054)	ND (0.00054)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00047)	ND (0.00050)	ND (0.00047)	ND (0.00047)
beta-BHC	0.036	14	0.6	0.09	ND (0.00051)	ND (0.00054)	ND (0.00051)	ND (0.00050)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00037)	ND (0.00039)	ND (0.00037)	ND (0.00037)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00042)	ND (0.00045)	ND (0.00042)	ND (0.00042)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00056)	0.0031	ND (0.00056)	0.0013
Endosulfan-I	2.4	920	NC	102	ND (0.00035)	ND (0.00037)	ND (0.00035)	0.0009 a
Endosulfan-II	2.4	920	NC	102	ND (0.00048)	ND (0.00051)	ND (0.00048)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00065)	ND (0.00070)	ND (0.00066)	ND (0.00065)
Endrin	0.014	410	0.014	0.060	ND (0.00037)	ND (0.00039)	ND (0.00037)	ND (0.00037)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00068)	ND (0.00073)	ND (0.00069)	ND (0.00068)
Endrin ketone	NC	NC	NC	NC	ND (0.00047)	ND (0.00050)	ND (0.00047)	ND (0.00047)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00033)	ND (0.00035)	ND (0.00033)	ND (0.00033)
Heptachlor	0.042	29	0.14	0.38	ND (0.00044)	ND (0.00047)	ND (0.00045)	ND (0.00044)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00036)	ND (0.00038)	ND (0.00036)	ND (0.00035)
Methoxychlor	NC	NC	1.2	900	ND (0.00051)	ND (0.00054)	ND (0.00051)	ND (0.00051)
Toxaphene	NC	NC	NC	NC	ND (0.0091)	ND (0.0097)	ND (0.0092)	ND (0.0090)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0052)	ND (0.0048)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00063)	ND (0.00058)	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0016)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00067)	ND (0.00073)	ND (0.00068)	ND (0.00069)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0042)	ND (0.0039)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0034)	ND (0.0031)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.56)	ND (0.53)	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 ND (0.00037) - Not Detected (Method Detection Limit)

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
Lab Sample ID					JB13937-2	JB15634-5	JB15634-8	JB13937-6
Sampling Date					8/16/2012	9/6/2012	9/6/2012	8/16/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00037)	ND (0.00044)	ND (0.00041)	ND (0.00038)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00042)	ND (0.00051)	ND (0.00048)	0.0033
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00053)	ND (0.00063)	ND (0.00059)	ND (0.00054)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00036)	ND (0.00043)	ND (0.00040)	ND (0.00037)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00054)	ND (0.00064)	ND (0.00061)	ND (0.00055)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00047)	ND (0.00056)	ND (0.00053)	ND (0.00048)
beta-BHC	0.036	14	0.6	0.09	ND (0.00050)	ND (0.00060)	ND (0.00057)	ND (0.00052)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00037)	ND (0.00044)	ND (0.00041)	ND (0.00038)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00042)	ND (0.00050)	ND (0.00047)	ND (0.00043)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00056)	ND (0.00066)	ND (0.00063)	ND (0.00057)
Endosulfan-I	2.4	920	NC	102	ND (0.00035)	ND (0.00042)	ND (0.00039)	ND (0.00036)
Endosulfan-II	2.4	920	NC	102	ND (0.00047)	ND (0.00057)	ND (0.00053)	ND (0.00049)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00065)	ND (0.00078)	ND (0.00073)	ND (0.00067)
Endrin	0.014	410	0.014	0.060	ND (0.00037)	ND (0.00044)	ND (0.00041)	ND (0.00038)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00068)	ND (0.00081)	ND (0.00077)	ND (0.00070)
Endrin ketone	NC	NC	NC	NC	ND (0.00047)	ND (0.00056)	ND (0.00053)	ND (0.00048)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00033)	ND (0.00039)	ND (0.00037)	ND (0.00034)
Heptachlor	0.042	29	0.14	0.38	ND (0.00044)	ND (0.00053)	ND (0.00050)	ND (0.00045)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00035)	ND (0.00042)	ND (0.00040)	ND (0.00036)
Methoxychlor	NC	NC	1.2	900	ND (0.00051)	ND (0.00061)	ND (0.00057)	ND (0.00052)
Toxaphene	NC	NC	NC	NC	ND (0.0091)	ND (0.011)	ND (0.010)	ND (0.0093)
2,4-D	NC	NC	NC	0.5	ND (0.0046)	ND (0.0056)	ND (0.0051)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00055)	ND (0.00068)	ND (0.00061)	ND (0.00056)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0017)	ND (0.0015)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0013)	ND (0.0012)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00064)	ND (0.00079)	ND (0.00072)	ND (0.00066)
Dichloroprop	NC	NC	NC	NC	ND (0.0037)	ND (0.0046)	ND (0.0041)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0030)	ND (0.0036)	ND (0.0033)	ND (0.0030)
MCPA	NC	NC	NC	NC	ND (0.50)	ND (0.61)	ND (0.55)	ND (0.51)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.32)	ND (0.29)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0013)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
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 SCO - Soil Cleanup Objective
 ND (0.00037) - Not Detected (Method Detection Limit)

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5	NYC-4H-ENV-8/4
Lab Sample ID					JB15634-13	JB16099-1	JB16360-1	JB14034-2	JB14034-5
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00037)	ND (0.00042)	0.0027	ND (0.00040)
4,4'-DDE	0.0033	120	0.0033	17	0.0037	0.0008	0.00089	0.0084	ND (0.00046)
4,4'-DDT	0.0033	94	0.0033	136	0.0027	ND (0.00053)	ND (0.00060)	0.021	ND (0.00057)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)	ND (0.00036)	ND (0.00041)	ND (0.00034)	ND (0.00039)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00054)	ND (0.00062)	ND (0.00050)	ND (0.00058)
alpha-Chlordane	0.094	47	1.3	2.9	0.0011	a ND (0.00047)	ND (0.00054)	0.02	a ND (0.00051)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)	ND (0.00051)	ND (0.00058)	ND (0.00047)	ND (0.00055)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	0.00	ND (0.00037)	ND (0.00042)	0.014	ND (0.00040)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00042)	ND (0.00048)	ND (0.00039)	ND (0.00046)
Dieldrin	0.005	2.8	0.006	0.1	0.0009	a ND (0.00056)	ND (0.00064)	0.007	ND (0.00060)
Endosulfan-I	2.4	920	NC	102	ND (0.00034)	ND (0.00035)	ND (0.00040)	ND (0.00033)	ND (0.00038)
Endosulfan-II	2.4	920	NC	102	ND (0.00046)	ND (0.00048)	ND (0.00054)	ND (0.00044)	ND (0.00051)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)	ND (0.00066)	ND (0.00075)	ND (0.00061)	ND (0.00071)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00037)	ND (0.00042)	ND (0.00034)	ND (0.00040)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)	ND (0.00069)	ND (0.00078)	ND (0.00064)	ND (0.00074)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00047)	ND (0.00054)	ND (0.00044)	ND (0.00051)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00033)	ND (0.00038)	ND (0.00031)	ND (0.00036)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00045)	ND (0.00051)	ND (0.00041)	ND (0.00048)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00036)	ND (0.00041)	0.0039	ND (0.00038)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00051)	ND (0.00058)	ND (0.00047)	ND (0.00055)
Toxaphene	NC	NC	NC	NC	ND (0.0087)	ND (0.0092)	ND (0.010)	ND (0.0085)	ND (0.0098)
2,4-D	NC	NC	NC	0.5	ND (0.0046)	ND (0.0046)	ND (0.0051)	ND (0.0043)	ND (0.0050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00055)	ND (0.00055)	ND (0.00061)	ND (0.00052)	ND (0.00061)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)	ND (0.0015)	ND (0.0013)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0010)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00064)	ND (0.00064)	ND (0.00071)	ND (0.00061)	ND (0.00071)
Dichloroprop	NC	NC	NC	NC	ND (0.0037)	ND (0.0037)	ND (0.0041)	ND (0.0035)	ND (0.0041)
Dinoseb	NC	NC	NC	NC	ND (0.0030)	ND (0.0030)	ND (0.0033)	ND (0.0028)	ND (0.0033)
MCPA	NC	NC	NC	NC	ND (0.50)	ND (0.50)	ND (0.55)	ND (0.47)	ND (0.55)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.26)	ND (0.29)	ND (0.24)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	0.003	ND (0.0011)	ND (0.0012)	0.0047	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.012)

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 SCO - Soil Cleanup Objective
 ND (0.00037) - Not Detected (Method Detection Limit)

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
Lab Sample ID					JB19256-1	JB19256-2
Sampling Date					10/13/2012	10/13/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00040)	ND (0.00045)
4,4'-DDE	0.0033	120	0.0033	17	0.0029	a ND (0.00033)
4,4'-DDT	0.0033	94	0.0033	136	0.0011	ND (0.00041)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00038)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00022)	ND (0.00025)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00027)	ND (0.00031)
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00052)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00051)	ND (0.00057)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00036)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00029)	ND (0.00032)
Endosulfan-I	2.4	920	NC	102	ND (0.00028)	ND (0.00031)
Endosulfan-II	2.4	920	NC	102	ND (0.00044)	ND (0.00050)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00032)	ND (0.00036)
Endrin	0.014	410	0.014	0.060	ND (0.00024)	ND (0.00027)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00038)	ND (0.00043)
Endrin ketone	NC	NC	NC	NC	ND (0.00030)	ND (0.00034)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00041)
Heptachlor	0.042	29	0.14	0.38	ND (0.00036)	ND (0.00040)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00027)	ND (0.00031)
Methoxychlor	NC	NC	1.2	900	ND (0.00072)	ND (0.00081)
Toxaphene	NC	NC	NC	NC	ND (0.0092)	ND (0.010)
2,4-D	NC	NC	NC	0.5	ND (0.0047)	ND (0.0062)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00057)	ND (0.00075)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0019)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0015)
Dicamba	NC	NC	NC	NC	ND (0.00066)	ND (0.00087)
Dichloroprop	NC	NC	NC	NC	ND (0.0038)	ND (0.0050)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0040)
MCPA	NC	NC	NC	NC	ND (0.51)	ND (0.67)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.35)
Pentachlorophenol	0.8	55	0.8	0.8	0.0017	ND (0.0014)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.015)

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NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0099)	ND (0.011)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.037)	ND (0.034)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.041)	ND (0.038)	ND (0.040)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.033)	ND (0.031)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.057)	ND (0.053)	ND (0.055)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.054)	ND (0.060)	ND (0.055)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.043)	ND (0.040)	ND (0.042)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.016)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.014)	ND (0.012)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.036)	ND (0.033)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.020)	ND (0.018)	ND (0.019)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.037)	ND (0.041)	ND (0.037)	ND (0.039)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.016)	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.038)	ND (0.035)	ND (0.036)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.045)	ND (0.042)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0082)	ND (0.0090)	ND (0.0083)	ND (0.0087)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.014)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.039)	ND (0.043)	ND (0.040)	ND (0.042)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.032)	ND (0.036)	ND (0.033)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0097)	ND (0.011)	ND (0.0099)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.060)	ND (0.055)	ND (0.058)
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.010)	ND (0.0095)	ND (0.0099)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0063)	ND (0.0058)	ND (0.0060)
Anthracene	100	1,000	NC	1,000	0.0303	0.0202	0.0172	J ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0070)	ND (0.0065)	ND (0.0067)
Benzaldehyde	NC	NC	NC	NC	ND (0.0074)	ND (0.0082)	ND (0.0075)	ND (0.0078)
Benzo(a)anthracene	1	11	NC	1	0.1300	0.0810	0.0598	0.0207 J
Benzo(a)pyrene	1	1	2.6	22	0.1200	0.0711	0.0483	0.0202 J
Benzo(b)fluoranthene	1	11	NC	2	0.1030	0.0691	0.0435	0.0191 J
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.0735	0.0445	0.0324	J 0.0190 J
Benzo(k)fluoranthene	1	110	NC	2	0.0926	0.0511	0.0329	J 0.0149 J
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0097)	ND (0.011)	ND (0.0099)	ND (0.010)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.029)	ND (0.031)	0.0639	J 0.8390
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.021)	ND (0.019)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.016)
Chrysene	1	110	NC	1	0.1320	0.0768	0.0511	0.0206 J
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0251	J 0.0224	J ND (0.011)	ND (0.012)
Dibenzofuran	7	1,000	NC	210	ND (0.0096)	ND (0.011)	ND (0.0097)	ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.013)	0.0668	0.0441 J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0079)	ND (0.0073)	ND (0.0076)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.017)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0038)	ND (0.0041)	ND (0.0038)	ND (0.0040)
Fluoranthene	100	1,000	NC	1,000	0.2390	0.1320	0.1000	0.0259 J
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0099)	ND (0.0091)	ND (0.0095)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.036)	ND (0.033)	ND (0.035)
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0099)	ND (0.0091)	ND (0.0095)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.0681	0.0417	0.0283	J 0.0166 J
Isophorone	NC	NC	NC	4	ND (0.0087)	ND (0.0096)	ND (0.0088)	ND (0.0092)
Naphthalene	12	1,000	NC	12	ND (0.0088)	ND (0.0097)	ND (0.0089)	ND (0.0093)
Nitrobenzene	NC	140	40	0.17	ND (0.0093)	ND (0.010)	ND (0.0095)	ND (0.0098)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0087)	ND (0.0080)	ND (0.0083)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.021)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.055)	ND (0.061)	ND (0.056)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	0.1300	0.0686	0.0591	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.037)	ND (0.034)	ND (0.036)
Pyrene	100	1,000	NC	1,000	0.2140	0.1200	0.0810	0.0280 J
Total SVOCs	NC	NC	NC	NC	1.36	0.80	0.68	1.07

Notes:
 mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0099) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
Lab Sample ID					JB13937-2	JB15634-5	JB15634-8	JB13937-6
Sampling Date					8/16/2012	9/6/2012	9/6/2012	8/16/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.019)	ND (0.012)	ND (0.011)	ND (0.020)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.064)	ND (0.040)	ND (0.036)	ND (0.066)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.072)	ND (0.045)	ND (0.040)	ND (0.075)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.059)	ND (0.037)	ND (0.033)	ND (0.061)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.10)	ND (0.063)	ND (0.056)	ND (0.10)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.10)	ND (0.065)	ND (0.058)	ND (0.11)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.076)	ND (0.047)	ND (0.042)	ND (0.079)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.027)	ND (0.017)	ND (0.015)	ND (0.028)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.024)	ND (0.015)	ND (0.013)	ND (0.025)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.019)	ND (0.012)	ND (0.011)	ND (0.020)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.063)	ND (0.039)	ND (0.035)	ND (0.065)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.035)	ND (0.022)	ND (0.019)	ND (0.036)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.071)	ND (0.044)	ND (0.040)	ND (0.074)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.027)	ND (0.017)	ND (0.015)	ND (0.028)
2-Nitrophenol	NC	NC	7	0.3	ND (0.066)	ND (0.041)	ND (0.037)	ND (0.068)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.079)	ND (0.049)	ND (0.044)	ND (0.082)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.016)	ND (0.0099)	ND (0.0088)	ND (0.016)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.025)	ND (0.016)	ND (0.014)	ND (0.026)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.076)	ND (0.047)	ND (0.042)	ND (0.079)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.023)	ND (0.014)	ND (0.013)	ND (0.023)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.062)	ND (0.039)	ND (0.035)	ND (0.064)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.020)	ND (0.012)	ND (0.011)	ND (0.021)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.019)	ND (0.012)	ND (0.010)	ND (0.019)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.024)	ND (0.015)	ND (0.014)	ND (0.025)
4-Nitrophenol	NC	NC	7	0.3	ND (0.11)	ND (0.066)	ND (0.059)	ND (0.11)
Acenaphthene	20	1,000	20	98	ND (0.018)	0.1130	ND (0.010)	0.0828
Acenaphthylene	100	1,000	NC	107	ND (0.020)	0.0336	J ND (0.011)	0.0492
Acetophenone	NC	NC	NC	NC	ND (0.011)	ND (0.0068)	ND (0.0061)	ND (0.011)
Anthracene	100	1,000	NC	1,000	0.0622	0.2820	0.0212	J 0.1860
Atrazine	NC	NC	NC	NC	ND (0.012)	ND (0.0077)	ND (0.0068)	ND (0.013)
Benzaldehyde	NC	NC	NC	NC	ND (0.014)	ND (0.0089)	ND (0.0080)	ND (0.015)
Benzo(a)anthracene	1	11	NC	1	0.3060	0.6740	0.0559	0.6910
Benzo(a)pyrene	1	1	2.6	22	0.3110	0.6180	0.0512	0.8570
Benzo(b)fluoranthene	1	11	NC	2	0.2810	0.5820	0.0364	0.8220
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.2260	0.3560	0.0295	J 0.5880
Benzo(k)fluoranthene	1	110	NC	2	0.2260	0.3380	0.0324	J 0.4310
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.025)	ND (0.016)	ND (0.014)	ND (0.026)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.019)	ND (0.012)	ND (0.010)	ND (0.019)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.055)	ND (0.034)	ND (0.031)	0.0822
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.036)	ND (0.023)	ND (0.020)	ND (0.037)
Caprolactam	NC	NC	NC	NC	ND (0.020)	ND (0.012)	ND (0.011)	ND (0.020)
Carbazole	NC	NC	NC	NC	ND (0.029)	0.1190	ND (0.016)	0.0581
Chrysene	1	110	NC	1	0.3090	0.6700	0.0534	0.6920
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0796	0.1110	ND (0.012)	0.1960
Dibenzofuran	7	1,000	NC	210	ND (0.019)	0.0456	J ND (0.010)	0.0402
Diethyl phthalate	NC	NC	100	7	ND (0.021)	ND (0.013)	ND (0.012)	ND (0.022)
Dimethyl phthalate	NC	NC	200	27	ND (0.022)	ND (0.014)	ND (0.012)	ND (0.023)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.014)	ND (0.0086)	ND (0.0077)	ND (0.014)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.030)	ND (0.019)	ND (0.017)	ND (0.031)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0072)	ND (0.0045)	ND (0.0040)	ND (0.0075)
Fluoranthene	100	1,000	NC	1,000	0.6070	1.8200	0.1190	1.2300
Fluorene	30	1,000	30	386	ND (0.020)	0.1210	ND (0.011)	0.0746
Hexachlorobenzene	0	12	NC	3	ND (0.020)	ND (0.013)	ND (0.011)	ND (0.021)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.017)	ND (0.011)	ND (0.0097)	ND (0.018)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.064)	ND (0.040)	ND (0.035)	ND (0.066)
Hexachloroethane	NC	NC	NC	NC	ND (0.017)	ND (0.011)	ND (0.0097)	ND (0.018)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.1970	0.3190	0.0292	J 0.5
Isophorone	NC	NC	NC	4	ND (0.017)	ND (0.010)	ND (0.0093)	ND (0.017)
Naphthalene	12	1,000	NC	12	ND (0.017)	ND (0.011)	ND (0.0095)	0.0300
Nitrobenzene	NC	140	40	0.17	ND (0.018)	ND (0.011)	ND (0.010)	ND (0.019)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.015)	ND (0.0095)	ND (0.0085)	ND (0.016)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.037)	ND (0.023)	ND (0.021)	ND (0.039)
Pentachlorophenol	1	55	0.8	1	ND (0.11)	ND (0.067)	ND (0.059)	ND (0.11)
Phenanthrene	100	1,000	NC	1,000	0.2690	1.4400	0.0765	0.6780
Phenol	0.33	1,000	30	0.33	ND (0.065)	ND (0.041)	ND (0.036)	ND (0.068)
Pyrene	100	1,000	NC	1,000	0.6070	1.5200	0.0939	1.2700
Total SVOCs	NC	NC	NC	NC	3.48	9.16	0.60	8.59

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0099) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
Lab Sample ID					JB15634-13	JB16099-1	JB16360-1	JB14034-2
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0096)	ND (0.0096)	ND (0.011)	ND (0.0090)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.032)	ND (0.032)	ND (0.037)	ND (0.030)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.036)	ND (0.036)	ND (0.041)	ND (0.034)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.029)	ND (0.030)	ND (0.033)	ND (0.027)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.050)	ND (0.051)	ND (0.057)	ND (0.047)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.053)	ND (0.053)	ND (0.060)	ND (0.049)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.038)	ND (0.038)	ND (0.043)	ND (0.036)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.016)	ND (0.013)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.012)	ND (0.014)	ND (0.011)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0097)	ND (0.0097)	ND (0.011)	ND (0.0091)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.032)	ND (0.032)	ND (0.036)	ND (0.030)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.017)	ND (0.018)	ND (0.020)	ND (0.016)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.036)	ND (0.036)	ND (0.041)	ND (0.033)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.016)	ND (0.013)
2-Nitrophenol	NC	NC	7	0.3	ND (0.033)	ND (0.033)	ND (0.038)	ND (0.031)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.040)	ND (0.045)	ND (0.037)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0080)	ND (0.0080)	ND (0.0090)	ND (0.0074)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.012)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.038)	ND (0.038)	ND (0.043)	ND (0.036)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.013)	ND (0.011)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.031)	ND (0.031)	ND (0.036)	ND (0.029)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.0093)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0094)	ND (0.0095)	ND (0.011)	ND (0.0088)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.014)	ND (0.011)
4-Nitrophenol	NC	NC	7	0.3	ND (0.053)	ND (0.053)	ND (0.060)	ND (0.049)
Acenaphthene	20	1,000	20	98	ND (0.0091)	ND (0.0091)	0.0691	ND (0.0085)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.010)	0.0175	J 0.0134
Acetophenone	NC	NC	NC	NC	ND (0.0055)	ND (0.0055)	ND (0.0063)	ND (0.0051)
Anthracene	100	1,000	NC	1,000	0.0491	0.0302	J 0.1560	0.0357
Atrazine	NC	NC	NC	NC	ND (0.0062)	ND (0.0062)	ND (0.0070)	ND (0.0058)
Benzaldehyde	NC	NC	NC	NC	ND (0.0072)	ND (0.0072)	ND (0.0082)	ND (0.0067)
Benzo(a)anthracene	1	11	NC	1	0.1760	0.1020	0.4140	0.1190
Benzo(a)pyrene	1	1	2.6	22	0.1740	0.1020	0.3590	0.1370
Benzo(b)fluoranthene	1	11	NC	2	0.1610	0.0891	0.3230	0.1350
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.1230	0.0545	0.1960	0.1170
Benzo(k)fluoranthene	1	110	NC	2	0.1250	0.0682	0.2860	0.0937
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.012)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0094)	ND (0.0095)	ND (0.011)	ND (0.0088)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.0456	J 0.0456	0.0836	0.0939
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.018)	ND (0.018)	ND (0.021)	ND (0.017)
Caprolactam	NC	NC	NC	NC	ND (0.0099)	ND (0.0099)	ND (0.011)	ND (0.0092)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	0.0435	J 0.014
Chrysene	1	110	NC	1	0.1680	0.0995	0.3710	0.1290
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0413	0.0231	J 0.0617	J 0.010
Dibenzofuran	7	1,000	NC	210	ND (0.0093)	ND (0.0093)	0.0271	ND (0.0087)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.010)
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.011)	0.1580	ND (0.010)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0070)	ND (0.0070)	ND (0.0079)	ND (0.0065)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.015)	ND (0.015)	ND (0.017)	ND (0.014)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0036)	ND (0.0036)	ND (0.0041)	ND (0.0034)
Fluoranthene	100	1,000	NC	1,000	0.3570	0.2040	0.8690	0.2120
Fluorene	30	1,000	30	386	ND (0.010)	ND (0.010)	0.0567	ND (0.0096)
Hexachlorobenzene	0	12	NC	3	ND (0.010)	ND (0.010)	ND (0.012)	ND (0.0095)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0087)	ND (0.0087)	ND (0.0099)	ND (0.0081)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.032)	ND (0.032)	ND (0.036)	ND (0.030)
Hexachloroethane	NC	NC	NC	NC	ND (0.0087)	ND (0.0087)	ND (0.0099)	ND (0.0081)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.1120	0.0495	0.1870	0.0847
Isophorone	NC	NC	NC	4	ND (0.0084)	ND (0.0085)	ND (0.0096)	ND (0.0079)
Naphthalene	12	1,000	NC	12	ND (0.0086)	ND (0.0086)	0.0185	J 0.0080
Nitrobenzene	NC	140	40	0.17	ND (0.0091)	ND (0.0091)	ND (0.010)	ND (0.0084)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0076)	ND (0.0077)	ND (0.0087)	ND (0.0071)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.019)	ND (0.021)	ND (0.017)
Pentachlorophenol	1	55	0.8	1	ND (0.054)	ND (0.054)	ND (0.061)	ND (0.050)
Phenanthrene	100	1,000	NC	1,000	0.2020	0.1140	0.5890	0.1180
Phenol	0.33	1,000	30	0.33	ND (0.033)	ND (0.033)	ND (0.037)	ND (0.031)
Pyrene	100	1,000	NC	1,000	0.2840	0.1970	0.7650	0.1860
Total SVOCs	NC	NC	NC	NC	2.02	1.13	5.05	1.47

Notes:
 mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0099) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					Sample ID/Depth	NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
					Lab Sample ID	JB14034-5	JB19256-1	JB19256-2
					Sampling Date	8/17/2012	10/13/2012	10/13/2012
					Matrix	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.013)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.035)	ND (0.043)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.039)	ND (0.049)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.032)	ND (0.039)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.055)	ND (0.055)	ND (0.067)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)	ND (0.057)	ND (0.070)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.041)	ND (0.051)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.018)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.016)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.013)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.034)	ND (0.042)	
2-Methylnaphthalene	NC	NC	NC	36.4	0.0219	J 0.0715	ND (0.023)	
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.039)	ND (0.039)	ND (0.048)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.018)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.036)	ND (0.044)	
3&4-Methylphenol	NC	NC	NC	NC	ND (0.043)	ND (0.043)	ND (0.053)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0087)	ND (0.0086)	ND (0.011)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.014)	ND (0.017)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.042)	ND (0.041)	ND (0.051)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.015)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.034)	ND (0.034)	ND (0.042)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.013)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.013)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.016)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.058)	ND (0.057)	ND (0.071)	
Acenaphthene	20	1,000	20	98	0.0551	0.1190	ND (0.012)	
Acenaphthylene	100	1,000	NC	107	0.0792	0.0561	ND (0.013)	
Acetophenone	NC	NC	NC	NC	ND (0.0060)	ND (0.0060)	ND (0.0074)	
Anthracene	100	1,000	NC	1,000	0.3870	0.2830	ND (0.015)	
Atrazine	NC	NC	NC	NC	ND (0.0067)	ND (0.0067)	ND (0.0083)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)	ND (0.0078)	ND (0.0096)	
Benzo(a)anthracene	1	11	NC	1	0.7300	0.5220	ND (0.014)	
Benzo(a)pyrene	1	1	2.6	22	0.5540	0.4310	ND (0.013)	
Benzo(b)fluoranthene	1	11	NC	2	0.5750	0.2920	ND (0.014)	
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.2820	0.2580	ND (0.016)	
Benzo(k)fluoranthene	1	110	NC	2	0.3610	0.3300	ND (0.016)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.017)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.013)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.0854	ND (0.030)	0.0534	J
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.020)	ND (0.024)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.013)	
Carbazole	NC	NC	NC	NC	0.1300	0.0604	J 0.019	
Chrysene	1	110	NC	1	0.6400	0.5670	ND (0.014)	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0951	0.0854	ND (0.014)	
Dibenzofuran	7	1,000	NC	210	0.1280	0.0789	ND (0.012)	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.014)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.015)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0076)	ND (0.0075)	ND (0.0093)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.017)	ND (0.020)	
1,1'-Biphenyl	NC	NC	60	NC	0.0137	J 0.0216	J 0.0049	
Fluoranthene	100	1,000	NC	1,000	1.8700	0.9900	ND (0.018)	
Fluorene	30	1,000	30	386	0.2450	0.1120	ND (0.014)	
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.011)	ND (0.014)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0095)	ND (0.0094)	ND (0.012)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.035)	ND (0.043)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0095)	ND (0.0094)	ND (0.012)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.2800	0.2100	ND (0.015)	
Isophorone	NC	NC	NC	4	ND (0.0092)	ND (0.0091)	ND (0.011)	
Naphthalene	12	1,000	NC	12	0.0200	J 0.0592	ND (0.011)	
Nitrobenzene	NC	140	40	0.17	ND (0.0099)	ND (0.0098)	ND (0.012)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0083)	ND (0.0083)	ND (0.010)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.025)	
Pentachlorophenol	1	55	0.8	1	ND (0.058)	ND (0.058)	ND (0.072)	
Phenanthrene	100	1,000	NC	1,000	1.8400	1.1000	ND (0.019)	
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.036)	ND (0.044)	
Pyrene	100	1,000	NC	1,000	1.3500	1.1300	ND (0.016)	
Total SVOCs	NC	NC	NC	NC	9.74	6.78	0.05	

Notes:
 mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0099) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.3)	ND (1.4)	ND (1.2)	ND (1.3)
TPH-DRO (C10-C44)	NC	NC	NC	NC	ND (4.4)	ND (4.8)	ND (4.3)	ND (3.4)

Notes:
 NC - No Criterion
 ND (1.3) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
Lab Sample ID					JB13937-2	JB15634-5	JB15634-8	JB13937-6
Sampling Date					8/16/2012	9/6/2012	9/6/2012	8/16/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.1)	ND (1.7)	ND (1.4)	ND (1.1)
TPH-DRO (C10-C44)	NC	NC	NC	NC	113	162	ND (4.7)	140

Notes:
 NC - No Criterion
 ND (1.3) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
Lab Sample ID					JB15634-13	JB16099-1	JB16360-1	JB14034-2
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.1)	ND (1.3)	ND (1.4)	ND (1.0)
TPH-DRO (C10-C44)	NC	NC	NC	NC	282	117	136	439

Notes:
 NC - No Criterion
 ND (1.3) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
Lab Sample ID					JB14034-5	JB19256-1	JB19256-2
Sampling Date					8/17/2012	10/13/2012	10/13/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.4)	ND (1.1)	ND (1.6)
TPH-DRO (C10-C44)	NC	NC	NC	NC	125	555	57.8

Notes:
 NC - No Criterion
 ND (1.3) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-2/2.5	NYC-4H-ENV-2/6	NYC-4H-ENV-4/3.5	NYC-4H-ENV-4/6
Lab Sample ID					JB15765-1	JB15765-2	JB15634-18	JB15634-19
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00012)	ND (0.00011)	ND (0.00013)	ND (0.00012)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00015)	ND (0.00014)	ND (0.00016)	ND (0.00015)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00018)	ND (0.00021)	ND (0.00019)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00016)	ND (0.00014)	ND (0.00017)	ND (0.00015)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00030)	ND (0.00027)	ND (0.00032)	ND (0.00029)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00019)	ND (0.00017)	ND (0.00020)	ND (0.00018)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00015)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.00010)	ND (0.00093)	ND (0.0011)	ND (0.00099)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00013)	ND (0.00016)	ND (0.00014)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00022)	ND (0.00020)	ND (0.00023)	ND (0.00021)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00016)	ND (0.00014)	ND (0.00017)	ND (0.00015)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00018)	ND (0.00016)	ND (0.00019)	ND (0.00017)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00020)	ND (0.00023)	ND (0.00021)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00018)	ND (0.00022)	ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.070)	ND (0.062)	ND (0.073)	ND (0.066)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0028)	ND (0.0025)	ND (0.0029)	ND (0.0027)
2-Hexanone	NC	NC	NC	NC	ND (0.00073)	ND (0.00065)	ND (0.00076)	ND (0.00069)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00088)	ND (0.00079)	ND (0.00092)	ND (0.00083)
Acetone	0.05	1,000	2.2	0.05	ND (0.0020)	ND (0.0018)	ND (0.0021)	ND (0.0019)
Acrolein	NC	NC	NC	NC	ND (0.0033)	ND (0.0030)	ND (0.0035)	ND (0.0032)
Acrylonitrile	NC	NC	NC	NC	ND (0.0018)	ND (0.0016)	ND (0.0019)	ND (0.0017)
Benzene	0.06	89	70	0.06	ND (0.00014)	ND (0.00012)	ND (0.00015)	ND (0.00013)
Bromochloromethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00028)	ND (0.00033)	ND (0.00029)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00012)	ND (0.00011)	ND (0.00013)	ND (0.00012)
Bromoform	NC	NC	NC	NC	ND (0.00018)	ND (0.00016)	ND (0.00019)	ND (0.00017)
Bromomethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00029)	ND (0.00034)	ND (0.00030)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00014)	ND (0.00012)	ND (0.00014)	ND (0.00013)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00016)	ND (0.00014)	ND (0.00016)	ND (0.00015)
Chlorobenzene	1	1,000	40	1	ND (0.00013)	ND (0.00011)	ND (0.00013)	ND (0.00012)
Chloroethane	NC	NC	NC	1.9	ND (0.00027)	ND (0.00024)	ND (0.00028)	ND (0.00025)
Chloroform	0.37	700	12	0.37	ND (0.00097)	ND (0.00086)	ND (0.0010)	ND (0.00092)
Chloromethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00019)	ND (0.00023)	ND (0.00021)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00021)	ND (0.00019)	ND (0.00023)	ND (0.00020)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00015)
Cyclohexane	NC	NC	NC	NC	ND (0.00015)	ND (0.00013)	ND (0.00015)	ND (0.00014)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00017)	ND (0.00020)	ND (0.00018)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00024)	ND (0.00028)	ND (0.00025)
Ethylbenzene	1	780	NC	1	ND (0.00031)	ND (0.00027)	ND (0.00032)	ND (0.00029)
Freon 113	NC	NC	NC	6	ND (0.00050)	ND (0.00045)	ND (0.00053)	ND (0.00048)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00087)	ND (0.00078)	ND (0.00091)	ND (0.00082)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00018)	ND (0.00021)	ND (0.00019)
Methyl acetate	NC	NC	NC	NC	ND (0.0030)	ND (0.0027)	ND (0.0032)	ND (0.0029)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00020)	ND (0.00018)	ND (0.00021)	ND (0.00019)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0015)	ND (0.0013)	ND (0.0016)	ND (0.0014)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00028)	ND (0.00025)	ND (0.00029)	ND (0.00026)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00015)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00011)	ND (0.000096)	ND (0.00011)	ND (0.00010)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	0.0017	J 0.00047	J 0.0016	J 0.0015
Toluene	0.7	1,000	36	0.7	ND (0.00012)	ND (0.00011)	ND (0.00013)	ND (0.00012)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00028)	ND (0.00025)	ND (0.00029)	ND (0.00026)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00016)	ND (0.00019)	ND (0.00017)
Trichloroethene	0.47	400	2	0.47	0.0081	J 0.00044	0.00091	J 0.0023
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00035)	ND (0.00031)	ND (0.00037)	ND (0.00033)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00017)	ND (0.00015)	ND (0.00018)	ND (0.00016)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00015)
Total VOCs	NC	NC	NC	NC	0.003	0.001	0.003	0.004

Notes:

mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NYC-4H TRACT PRE-CHARACTERIZATION
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 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-5W/4	NYC-4H-ENV-5W/11	NYC-4H-ENV-5W/14	NYC-4H-ENV-6/4
Lab Sample ID					JB13937-2	JB15634-5	JB15634-8	JB13937-6
Sampling Date					8/16/2012	9/6/2012	9/6/2012	8/16/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00013)	ND (0.00013)	ND (0.00011)	ND (0.00012)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00016)	ND (0.00016)	ND (0.00013)	ND (0.00015)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00022)	ND (0.00017)	ND (0.00020)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00016)	ND (0.00017)	ND (0.00014)	ND (0.00016)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00031)	ND (0.00032)	ND (0.00026)	ND (0.00030)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00020)	ND (0.00020)	ND (0.00016)	ND (0.00019)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00017)	ND (0.00017)	ND (0.00014)	ND (0.00016)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.00089)	ND (0.0010)
1,2-Dibromomethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00013)	ND (0.00015)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00023)	ND (0.00024)	ND (0.00019)	ND (0.00022)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00016)	ND (0.00017)	ND (0.00013)	ND (0.00016)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00015)	ND (0.00018)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00023)	ND (0.00019)	ND (0.00022)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00022)	ND (0.00018)	ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.071)	ND (0.074)	ND (0.059)	ND (0.069)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0029)	ND (0.0030)	ND (0.0024)	ND (0.0028)
2-Hexanone	NC	NC	NC	NC	ND (0.00074)	ND (0.00078)	ND (0.00062)	ND (0.00072)
4-Methyl-2-pentanone (MIBK)	NC	NC	NC	1	ND (0.00090)	ND (0.00094)	ND (0.00075)	ND (0.00086)
Acetone	0.05	1,000	2.2	0.05	ND (0.0020)	0.014	0.0053	J ND (0.0019)
Acrolein	NC	NC	NC	NC	ND (0.0034)	ND (0.0035)	ND (0.0028)	ND (0.0033)
Acrylonitrile	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0015)	ND (0.0018)
Benzene	0.06	89	70	0.06	0.00033	J ND (0.00015)	ND (0.00012)	0.0036
Bromochloromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00033)	ND (0.00026)	ND (0.00031)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00013)	ND (0.00013)	ND (0.00010)	ND (0.00012)
Bromoform	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00015)	ND (0.00017)
Bromomethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00034)	ND (0.00027)	ND (0.00031)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00014)	0.001	J ND (0.00012)	0.0011
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00016)	ND (0.00017)	ND (0.00013)	ND (0.00015)
Chlorobenzene	1	1,000	40	1	ND (0.00013)	ND (0.00013)	ND (0.00011)	ND (0.00012)
Chloroethane	NC	NC	NC	1.9	ND (0.00027)	ND (0.00028)	ND (0.00023)	ND (0.00026)
Chloroform	0.37	700	12	0.37	ND (0.00099)	ND (0.00010)	ND (0.00082)	ND (0.00095)
Chloromethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00023)	ND (0.00019)	ND (0.00021)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00022)	ND (0.00023)	ND (0.00018)	ND (0.00021)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	ND (0.00014)	ND (0.00016)
Cyclohexane	NC	NC	NC	NC	ND (0.00015)	ND (0.00015)	ND (0.00012)	ND (0.00014)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00020)	ND (0.00016)	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00023)	ND (0.00026)
Ethylbenzene	1	780	NC	1	ND (0.00031)	ND (0.00033)	ND (0.00026)	ND (0.00030)
Freon 113	NC	NC	NC	6	ND (0.00051)	ND (0.00054)	ND (0.00043)	ND (0.00050)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00089)	ND (0.00093)	ND (0.00074)	ND (0.00086)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00022)	ND (0.00017)	0.00057
Methyl acetate	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)	ND (0.0026)	ND (0.0030)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00020)	ND (0.00021)	ND (0.00017)	ND (0.00019)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0015)	ND (0.0016)	ND (0.0013)	ND (0.0015)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00028)	ND (0.00029)	ND (0.00023)	ND (0.00027)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00017)	ND (0.00017)	ND (0.00014)	0.00035
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00011)	ND (0.00011)	ND (0.000091)	ND (0.00011)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	0.00028	J ND (0.00021)	ND (0.00017)	0.00027
Toluene	0.7	1,000	36	0.7	ND (0.00013)	ND (0.00013)	ND (0.00010)	0.00058
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00028)	ND (0.00030)	ND (0.00024)	ND (0.00027)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)	ND (0.00015)	ND (0.00018)
Trichloroethene	0.47	400	2	0.47	ND (0.00021)	ND (0.00022)	ND (0.00017)	ND (0.00020)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00037)	ND (0.00030)	ND (0.00034)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00017)	ND (0.00018)	ND (0.00014)	ND (0.00017)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00017)	ND (0.00017)	ND (0.00014)	0.00092
Total VOCs	NC	NC	NC	NC	0.001	0.015	0.005	0.006

Notes:

mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-6/3.5	NYC-4H-ENV-6/7	NYC-4H-ENV-6/10	NYC-4H-ENV-7/5
Lab Sample ID					JB15634-13	JB16099-1	JB16360-1	JB14034-2
Sampling Date					9/6/2012	9/11/2012	9/14/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00013)	ND (0.00014)	ND (0.00013)	ND (0.00017)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00016)	ND (0.00017)	ND (0.00016)	ND (0.00021)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00023)	ND (0.00021)	ND (0.00027)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00017)	ND (0.00018)	ND (0.00016)	ND (0.00022)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00031)	ND (0.00033)	ND (0.00031)	ND (0.00041)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00020)	ND (0.00021)	ND (0.00020)	ND (0.00026)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00017)	ND (0.00018)	ND (0.00017)	ND (0.00022)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0014)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00015)	ND (0.00020)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00023)	ND (0.00024)	ND (0.00023)	ND (0.00030)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00016)	ND (0.00017)	ND (0.00016)	ND (0.00021)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00019)	ND (0.00020)	ND (0.00018)	ND (0.00024)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.00024)	ND (0.00022)	ND (0.00030)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00023)	ND (0.00021)	ND (0.00028)
1,4-Dioxane	0.1	250	1	0.1	ND (0.072)	ND (0.077)	ND (0.071)	ND (0.094)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0029)	ND (0.0031)	ND (0.0029)	ND (0.0038)
2-Hexanone	NC	NC	NC	NC	ND (0.00075)	ND (0.00080)	ND (0.00074)	ND (0.00098)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00091)	ND (0.00097)	ND (0.00090)	ND (0.0012)
Acetone	0.05	1,000	2.2	0.05	ND (0.0021)	ND (0.0022)	ND (0.0020)	ND (0.0027)
Acrolein	NC	NC	NC	NC	ND (0.0034)	ND (0.0037)	ND (0.0034)	ND (0.0045)
Acrylonitrile	NC	NC	NC	NC	ND (0.0019)	ND (0.0020)	ND (0.0018)	ND (0.0024)
Benzene	0.06	89	70	0.06	ND (0.00014)	0.00038	0.00092	ND (0.00019)
Bromochloromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00034)	ND (0.00032)	ND (0.00042)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00013)	ND (0.00014)	ND (0.00013)	ND (0.00017)
Bromoform	NC	NC	NC	NC	ND (0.00018)	ND (0.00020)	ND (0.00018)	ND (0.00024)
Bromomethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00035)	ND (0.00033)	ND (0.00043)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00014)	0.0013	0.0018	ND (0.00018)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00016)	ND (0.00017)	ND (0.00016)	ND (0.00021)
Chlorobenzene	1	1,000	40	1	ND (0.00013)	ND (0.00014)	ND (0.00013)	ND (0.00017)
Chloroethane	NC	NC	NC	1.9	ND (0.00028)	ND (0.00029)	ND (0.00027)	ND (0.00036)
Chloroform	0.37	700	12	0.37	ND (0.00010)	ND (0.00011)	ND (0.000099)	ND (0.00013)
Chloromethane	NC	NC	NC	NC	ND (0.00023)	ND (0.00024)	ND (0.00022)	ND (0.00029)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00022)	ND (0.00024)	ND (0.00022)	ND (0.00029)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00018)	ND (0.00017)	ND (0.00022)
Cyclohexane	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00015)	ND (0.00020)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00021)	ND (0.00020)	ND (0.00026)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00029)	ND (0.00027)	ND (0.00036)
Ethylbenzene	1	780	NC	1	ND (0.00032)	ND (0.00034)	ND (0.00031)	ND (0.00042)
Freon 113	NC	NC	NC	6	ND (0.00052)	ND (0.00056)	ND (0.00051)	ND (0.00068)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00090)	ND (0.00096)	ND (0.00089)	ND (0.00012)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00023)	ND (0.00021)	ND (0.00027)
Methyl acetate	NC	NC	NC	NC	ND (0.0032)	ND (0.0034)	ND (0.0031)	ND (0.0041)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00021)	ND (0.00022)	ND (0.00020)	ND (0.00027)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0015)	ND (0.0016)	ND (0.0015)	ND (0.0020)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00029)	ND (0.00030)	ND (0.00028)	ND (0.00037)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00017)	ND (0.00018)	ND (0.00017)	ND (0.00022)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00011)	ND (0.00012)	ND (0.00011)	ND (0.00014)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00021)	ND (0.00022)	ND (0.00021)	ND (0.00027)
Toluene	0.7	1,000	36	0.7	ND (0.00013)	ND (0.00014)	ND (0.00013)	ND (0.00017)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00029)	ND (0.00031)	ND (0.00028)	ND (0.00038)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00020)	ND (0.00019)	ND (0.00024)
Trichloroethene	0.47	400	2	0.47	ND (0.00021)	ND (0.00023)	ND (0.00021)	ND (0.00027)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00039)	ND (0.00036)	ND (0.00047)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00017)	ND (0.00019)	ND (0.00017)	ND (0.00023)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00017)	ND (0.00017)	ND (0.00017)	ND (0.00022)
Total VOCs	NC	NC	NC	NC	ND	0.002	0.003	ND

Notes:

mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID/Depth	NYC-4H-ENV-8/4	NYC-4H-ENV-9/2.5	NYC-4H-ENV-9/6
					Lab Sample ID	JB14034-5	JB19256-1	JB19256-2
					Sampling Date	8/17/2012	10/13/2012	10/13/2012
					Matrix	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00013)	ND (0.00013)	ND (0.00021)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00016)	ND (0.00017)	ND (0.00026)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00022)	ND (0.00035)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00016)	ND (0.00017)	ND (0.00027)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00031)	ND (0.00032)	ND (0.00051)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00020)	ND (0.00021)	ND (0.00033)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00017)	ND (0.00017)	ND (0.00028)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0018)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00025)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00023)	ND (0.00024)	ND (0.00038)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00016)	ND (0.00017)	ND (0.00027)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00031)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00023)	ND (0.00037)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00022)	ND (0.00035)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.071)	ND (0.074)	ND (0.12)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0029)	ND (0.0030)	ND (0.0048)	
2-Hexanone	NC	NC	NC	NC	ND (0.00074)	ND (0.00078)	ND (0.0012)	
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00090)	ND (0.00094)	ND (0.0015)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0020)	ND (0.0021)	ND (0.0034)	
Acrolein	NC	NC	NC	NC	ND (0.0034)	ND (0.0036)	ND (0.0057)	
Acrylonitrile	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0031)	
Benzene	0.06	89	70	0.06	ND (0.00014)	ND (0.00015)	ND (0.00024)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00033)	ND (0.00053)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00013)	ND (0.00013)	ND (0.00021)	
Bromoform	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00030)	
Bromomethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00034)	ND (0.00054)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00014)	ND (0.00015)	ND (0.00023)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00016)	ND (0.00017)	ND (0.00027)	
Chlorobenzene	1	1,000	40	1	ND (0.00013)	ND (0.00014)	ND (0.00022)	
Chloroethane	NC	NC	NC	1.9	ND (0.00027)	ND (0.00028)	ND (0.00045)	
Chloroform	0.37	700	12	0.37	ND (0.00099)	ND (0.00010)	ND (0.00016)	
Chloromethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00023)	ND (0.00037)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00022)	ND (0.00023)	ND (0.00037)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	ND (0.00028)	
Cyclohexane	NC	NC	NC	NC	ND (0.00015)	ND (0.00016)	ND (0.00025)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00021)	ND (0.00033)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00029)	ND (0.00045)	
Ethylbenzene	1	780	NC	1	ND (0.00031)	ND (0.00033)	ND (0.00052)	
Freon 113	NC	NC	NC	6	ND (0.00051)	ND (0.00054)	ND (0.00086)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00089)	ND (0.00093)	ND (0.00015)	
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00022)	ND (0.00035)	
Methyl acetate	NC	NC	NC	NC	ND (0.00031)	ND (0.00033)	ND (0.00052)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00020)	ND (0.00021)	ND (0.00034)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0015)	ND (0.0016)	ND (0.0025)	
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00028)	ND (0.00029)	ND (0.00047)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00017)	ND (0.00017)	ND (0.00028)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00011)	ND (0.00011)	ND (0.00018)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	
Tetrachloroethene	1.3	300	2	1.3	ND (0.00021)	ND (0.00022)	ND (0.00034)	
Toluene	0.7	1,000	36	0.7	ND (0.00013)	ND (0.00013)	ND (0.00021)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00028)	ND (0.00030)	ND (0.00047)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)	ND (0.00031)	
Trichloroethene	0.47	400	2	0.47	ND (0.00021)	ND (0.00022)	ND (0.00035)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00037)	ND (0.00059)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00017)	ND (0.00018)	ND (0.00029)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00017)	ND (0.00017)	ND (0.00028)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
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NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					NYC-4H-ENV-2-WC	NYC-4H-ENV-2-WC/2	NYC-4H-ENV-2-WC/4	NYC-4H-ENV-2-WC/6
Lab Sample ID					JB15634-21	JB15765-3	JB15765-4	JB15765-5
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	309	NA	NA	NA
Solids %	NC	NC	NC	NC	83.6	88.2	81	78.2
pH (su)	NC	NC	NC	NC	8.31	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					NYC-4H-ENV-2-WC/8	NYC-4H-ENV-4-WC	NYC-4H-ENV-4-WC/2	NYC-4H-ENV-4-WC/4				
Lab Sample ID					JB15765-6	JB15634-20	JB15634-14	JB15634-15				
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	NA	311	NA	NA
Solids %					NC	NC	NC	NC	76.4	86.2	88.4	86.2
pH (su)					NC	NC	NC	NC	NA	8.23	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					NYC-4H-ENV-4-WC/6	NYC-4H-ENV-4-WC/8	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC				
Sample ID/Depth												
Lab Sample ID					JB15634-16	JB15634-17	JB15634-22	JB15634-9				
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	NA	NA	695	175
Solids %					NC	NC	NC	NC	84.1	81.7	NA	79.9
pH (su)					NC	NC	NC	NC	NA	NA	8.1	10.25

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					NYC-4H-ENV-5W-WC/2	NYC-4H-ENV-5W-WC/4	NYC-4H-ENV-5W-WC/6	NYC-4H-ENV-5W-WC/8				
Lab Sample ID					JB13937-1	JB13937-3	JB13937-4	JB15634-3				
Sampling Date					8/16/2012	8/16/2012	8/16/2012	9/6/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	NA	NA	NA	NA
Solids %					NC	NC	NC	NC	90.4	86.9	86.9	78.9
pH (su)					NC	NC	NC	NC	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	NYC-4H-ENV-5W-WC/10	NYC-4H-ENV-5W-WC/12	NYC-4H-ENV-5W-WC/14	NYC-4H-ENV-5W-WC/16
					Lab Sample ID	JB15634-10	JB15634-4	JB15634-6	JB15634-7
					Sampling Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012
					Matrix	Soil	Soil	Soil	Soil
					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
GENERAL CHEMISTRY									Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NC	NA	NA	NA	NA
Solids %	NC	NC	NC	NC	NC	85.1	65.8	71.3	81.9
pH (su)	NC	NC	NC	NC	NC	NA	NA	NA	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					NYC-4H-ENV-6-WC	NYC-4H-ENV-6-WC/4	NYC-4H-ENV-6-WC/6	NYC-4H-ENV-6-WC/2
Lab Sample ID					JB16374-1	JB13937-5	JB13937-7	JB15634-11
Sampling Date					9/13/2012	8/16/2012	8/16/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	322	NA	NA	NA
Solids %	NC	NC	NC	NC	82.7	88.3	88.2	89.9
pH (su)	NC	NC	NC	NC	8.54	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					NYC-4H-ENV-6-WC/4	NYC-4H-ENV-6-WC/6	NYC-4H-ENV-6-WC/8	NYC-4H-ENV-6-WC/10				
Lab Sample ID					JB15634-12	JB16099-2	JB16258-1	JB16258-2				
Sampling Date					9/6/2012	9/11/2012	9/12/2012	9/12/2012				
Matrix					Soil	Soil	Soil	Soil				
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
					Result	Result	Result	Result				
Redox Potential Vs H2 (mv)					NC	NC	NC	NC	NA	NA	NA	NA
Solids %					NC	NC	NC	NC	96.5	88.8	83.2	76.1
pH (su)					NC	NC	NC	NC	NA	NA	NA	NA

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					NYC-4H-ENV-8-WC	NYC-4H-ENV-8-WC/2	NYC-4H-ENV-8-WC/4	NYC-4H-ENV-8-WC/5.5
Sample ID/Depth					JB14034-7	JB14034-3	JB14034-4	JB14034-6
Lab Sample ID					8/17/2012	8/17/2012	8/17/2012	8/17/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	170	NA	NA	NA
Solids %	NC	NC	NC	NC	86	92	82.7	93.6
pH (su)	NC	NC	NC	NC	11.31	NA	NA	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					NYC-4H-ENV-9-WC	NYC-4H-ENV-9-WC/2	NYC-4H-ENV-9-WC/4	NYC-4H-ENV-9-WC/6
Sample ID/Depth					JB19256-7	JB19256-3	JB19256-4	JB19256-5
Lab Sample ID					10/13/2012	10/13/2012	10/13/2012	10/13/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	224	NA	NA	NA
Solids %	NC	NC	NC	NC	NA	91.6	88.4	84.5
pH (su)	NC	NC	NC	NC	11.03	NA	NA	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT PRE-CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	NYC-4H-ENV-9-WC/8
					Lab Sample ID	JB19256-6
					Sampling Date	10/13/2012
					Matrix	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	
Solids %	NC	NC	NC	NC	83.9	
pH (su)	NC	NC	NC	NC	NA	

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

TRC Sample No.:	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W/4	NYC-4H-ENV-5W-WC	NYC-4H-ENV-6/4
Date Sampled:	09/06/12	08/16/12	09/06/12	08/16/12
Lab Sample No.:	JB15634-22A	JB13937-2R	JB15634-9U	JB13937-6R
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)				
Arsenic	5.0	<0.50	NA	NA	NA
Barium	100.0	<1.0	NA	NA	NA
Cadmium	1.0	<0.0050	NA	NA	NA
Chromium	5.0	<0.010	NA	NA	NA
Copper	NC	<0.025	NA	NA	NA
Lead	5.0	<0.50	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	NA	NA	NA
Nickel	NC	<0.040	NA	NA	NA
Selenium	1.0	<0.50	NA	NA	NA
Silver	5.0	<0.010	NA	NA	NA
Zinc	NC	0.58	NA	NA	NA

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

TRC Sample No.: NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-8-WC	NYC-4H-ENV-9-WC
Date Sampled: 09/13/12	08/17/12	09/06/12
Lab Sample No.: JB16374-2A	JB14034-7T	JB19256-7A
Laboratory: Soil	Accutest	Accutest
Matrix: Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)			
Arsenic	5.0	<0.50	NA	<0.50
Barium	100.0	<1.0	NA	<1.0
Cadmium	1.0	<0.0050	NA	<0.0050
Chromium	5.0	<0.010	NA	<0.010
Copper	NC	<0.025	NA	<0.025
Lead	5.0	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	NA	<0.00020
Nickel	NC	<0.20	c	<0.040
Selenium	1.0	<0.50	NA	<0.50
Silver	5.0	<0.010	NA	<0.010
Zinc	NC	0.27	NA	<0.050

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					NYC-4H-ENV-2-WC	NYC-4H-ENV-4-WC	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC
Lab Sample ID					JB15634-21/21R	JB15634-20/20R	JB15634-22/22T	JB15634-9/9R
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
					Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6670	6000	6450	9030
Antimony	NC	NC	12	NC	3.2	<2.3	3.1	14.1
Arsenic	13	16	13	16	10	4.4	7.4	5.7
Barium	350	10,000	433	820	97.5	52	93.1	180
Beryllium	7.2	2,700	10	47	0.4	0.33	0.32	0.39
Cadmium	2.5	60	4	7.5	<0.59	<0.57	<0.58	<0.59
Calcium	NC	NC	10000	NC	9510	7910	22800	28000
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	21.5	13.8	18.3	21.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.88 (0.81)	<0.46 (<0.46)	0.6 (0.54)	<0.50 (<0.50)
Chromium (Trivalent)	30	6800	41	NC	20.6	13.6	17.7	20.8
Cobalt	NC	NC	20	NC	<5.9	<5.7	<5.8	<5.9
Copper	50	10,000	50	1,720	129	58.5	72.4	46.2
Cyanide (Total)	27	10,000	NC	40	<0.28	<0.29	1.3	<0.29
Iron	NC	NC	NC	NC	16300	13800	18000	13900
Lead	63	3,900	63	450	615	345	324	354
Magnesium	NC	NC	NC	NC	3240	2860	8530	12700
Manganese	1,600	10,000	1600	2,000	249	276	218	388
Mercury (Total)	0.18	5.7	0.18	0.73	1.8	0.29	1	0.32
Molybdenum	NC	NC	2	NC	<2.4	<2.3	<2.3	2.7
Nickel	30	10,000	30	130	22.2	15.5	17.6	14.9
Potassium	NC	NC	NC	NC	1330	<1100	1250	1620
Selenium	3.9	6,800	3.9	4	<2.4	<2.3	<2.3	<2.4
Silver	2	6,800	2	8.3	0.71	<0.57	<0.58	<0.59
Sodium	NC	NC	NC	NC	1970	1620	1860	2010
Thallium	NC	NC	5	NC	<1.2	<1.1	<1.2	<1.2
Vanadium	NC	NC	39	NC	20.9	18	18.9	20.3
Zinc	109	10,000	109	2,480	198	128	162	94.5

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<0.59 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The value of the re-analyzed sample is identified by the parenthesis.

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-6-WC	NYC-4H-ENV-8-WC	NYC-4H-ENV-9-WC
Lab Sample ID					JB16374-2	JB16374-1	JB14034-7/7R	JB19256-7
Sampling Date					9/13/2012	9/13/2012	8/17/2012	10/13/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
					Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6460	7460	9350	9780
Antimony	NC	NC	12	NC	4	2.9	<2.2	<2.4
Arsenic	13	16	13	16	9	6.4	6.2	5
Barium	350	10,000	433	820	105	138	176	139
Beryllium	7.2	2,700	10	47	0.37	0.36	0.54	0.47
Cadmium	2.5	60	4	7.5	<0.56	<0.59	<0.56	<0.61
Calcium	NC	NC	10000	NC	16700	20200	61800	27300
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	15.2	15.2	32.1	20.4
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46	<0.48	4.7 (2)	<0.46
Chromium (Trivalent)	30	6800	41	NC	15.2	15.2	27.4	20.4
Cobalt	NC	NC	20	NC	<5.6	<5.9	<5.6	7.5
Copper	50	10,000	50	1,720	74.3	49.6	35.3	32
Cyanide (Total)	27	10,000	NC	40	<0.25	0.26	<0.27	<0.25
Iron	NC	NC	NC	NC	12900	14100	13100	14300
Lead	63	3,900	63	450	323	252	643	99.9
Magnesium	NC	NC	NC	NC	3310	4950	15900	4580
Manganese	1,600	10,000	1600	2,000	201	260	276	428
Mercury (Total)	0.18	5.7	0.18	0.73	2	1.2	0.44	0.09
Molybdenum	NC	NC	2	NC	<2.2	<2.3	<2.2	<2.4
Nickel	30	10,000	30	130	13.9	14.7	18.5	17.7
Potassium	NC	NC	NC	NC	1430	2000	2620	2270
Selenium	3.9	6,800	3.9	4	<2.2	<2.3	<2.2	<2.4
Silver	2	6,800	2	8.3	<0.56	<0.59	1.2	<0.61
Sodium	NC	NC	NC	NC	1420	1510	<1100	<1200
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.1	<1.2
Vanadium	NC	NC	39	NC	19.2	19.9	28.6	27.3
Zinc	109	10,000	109	2,480	150	144	77.8	50.1

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<0.59 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The analyzed sample is identified by the parenthesis.

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

	Sample ID/Depth			
	Lab Sample ID			
	Sampling Date			
	Matrix			
	Units			
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO
Aluminum	NC	NC	10000	NC
Antimony	NC	NC	12	NC
Arsenic	13	16	13	16
Barium	350	10,000	433	820
Beryllium	7.2	2,700	10	47
Cadmium	2.5	60	4	7.5
Calcium	NC	NC	10000	NC
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾
Chromium (Trivalent)	30	6800	41	NC
Cobalt	NC	NC	20	NC
Copper	50	10,000	50	1,720
Cyanide (Total)	27	10,000	NC	40
Iron	NC	NC	NC	NC
Lead	63	3,900	63	450
Magnesium	NC	NC	NC	NC
Manganese	1,600	10,000	1600	2,000
Mercury (Total)	0.18	5.7	0.18	0.73
Molybdenum	NC	NC	2	NC
Nickel	30	10,000	30	130
Potassium	NC	NC	NC	NC
Selenium	3.9	6,800	3.9	4
Silver	2	6,800	2	8.3
Sodium	NC	NC	NC	NC
Thallium	NC	NC	5	NC
Vanadium	NC	NC	39	NC
Zinc	109	10,000	109	2,480

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<0.59 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The analyzed sample is identified by the parenthesis.

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					NYC-4H-ENV-2-WC	NYC-4H-ENV-4-WC	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC
Lab Sample ID					JB15634-21	JB15634-20	JB15634-22	JB15634-9
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0087)	ND (0.0096)	ND (0.0094)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.020)	ND (0.022)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.017)	ND (0.019)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.016)	ND (0.017)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.0098)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.010) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-6-WC	NYC-4H-ENV-8-WC	NYC-4H-ENV-9-WC
Sample ID/Depth								
Lab Sample ID					JB16374-2	JB16374-1	JB14034-7	JB19256-7
Sampling Date					9/13/2012	9/13/2012	8/17/2012	10/13/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0092)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.024)	ND (0.023)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.020)	ND (0.019)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.010) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-2-WC	NYC-4H-ENV-4-WC	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC
Lab Sample ID					JB15634-21	JB15634-20	JB15634-22	JB15634-9
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00040)	ND (0.00034)	ND (0.00038)	ND (0.00037)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00046)	ND (0.00039)	ND (0.00044)	ND (0.00042)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	ND (0.00049)	ND (0.00054)	ND (0.00053)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00039)	ND (0.00033)	ND (0.00037)	ND (0.00036)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00059)	ND (0.00050)	ND (0.00056)	ND (0.00054)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00051)	ND (0.00043)	ND (0.00048)	ND (0.00047)
beta-BHC	0.036	14	0.6	0.09	ND (0.00055)	ND (0.00047)	ND (0.00052)	ND (0.00050)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00040)	ND (0.00034)	ND (0.00038)	ND (0.00037)
delta-BHC	0.04	1.000	0.04	0.25	ND (0.00046)	ND (0.00039)	ND (0.00043)	ND (0.00042)
Dieldrin	0.005	2.8	0.006	0.1	0.0033	ND (0.00052)	0.0015	ND (0.00056)
Endosulfan-I	2.4	920	NC	102	ND (0.00038)	0.0016	a	ND (0.00036)
Endosulfan-II	2.4	920	NC	102	ND (0.00052)	ND (0.00044)	ND (0.00049)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1.000	ND (0.00071)	ND (0.00060)	ND (0.00067)	ND (0.00065)
Endrin	0.014	410	0.014	0.060	ND (0.00040)	ND (0.00034)	ND (0.00038)	ND (0.00037)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.00063)	ND (0.00070)	ND (0.00068)
Endrin ketone	NC	NC	NC	NC	ND (0.00051)	ND (0.00043)	ND (0.00048)	ND (0.00047)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00030)	ND (0.00034)	ND (0.00033)
Heptachlor	0.042	29	0.14	0.38	ND (0.00048)	ND (0.00041)	ND (0.00046)	ND (0.00044)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00033)	ND (0.00037)	ND (0.00035)
Methoxychlor	NC	NC	1.2	900	ND (0.00056)	ND (0.00047)	ND (0.00052)	ND (0.00051)
Toxaphene	NC	NC	NC	NC	ND (0.00099)	ND (0.00084)	ND (0.00094)	ND (0.00091)
2,4-D	NC	NC	NC	0.5	ND (0.00050)	ND (0.00048)	ND (0.00049)	ND (0.00051)
2,4,5-TP (Silvex)	3.8	1.000	NC	3.8	ND (0.00060)	ND (0.00058)	ND (0.00059)	ND (0.00062)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0016)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00070)	ND (0.00067)	ND (0.00069)	ND (0.00072)
Dichloroprop	NC	NC	NC	NC	ND (0.0041)	ND (0.0039)	ND (0.0040)	ND (0.0042)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)	ND (0.0032)	ND (0.0033)
MCPA	NC	NC	NC	NC	ND (0.54)	ND (0.52)	ND (0.53)	ND (0.56)
MCPD	NC	NC	NC	NC	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.29)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0011)	ND (0.0011)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00040) - Not Detected (Method Detection Limit)

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					NYC-4H-ENV-6-WC	NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-8-WC	NYC-4H-ENV-9-WC
Lab Sample ID					JB16374-1	JB16374-2	JB14034-7	JB19256-7
Sampling Date					9/13/2012	9/13/2012	8/17/2012	10/13/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00041)	ND (0.00039)	ND (0.00039)	ND (0.00042)
4,4'-DDE	0.0033	120	0.0033	17	0.0017	0.0010	0.0010	0.0028
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00059)	ND (0.00056)	ND (0.00056)	0.0010
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00038)	ND (0.00038)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00060)	ND (0.00058)	ND (0.00058)	ND (0.00023)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	ND (0.00050)	ND (0.00050)	ND (0.00028)
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00054)	ND (0.00054)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00041)	ND (0.00039)	ND (0.00039)	ND (0.00053)
delta-BHC	0.04	1.000	0.04	0.25	ND (0.00047)	ND (0.00045)	ND (0.00045)	ND (0.00038)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00062)	ND (0.00060)	ND (0.00060)	ND (0.00030)
Endosulfan-I	2.4	920	NC	102	ND (0.00039)	ND (0.00037)	ND (0.00037)	ND (0.00029)
Endosulfan-II	2.4	920	NC	102	ND (0.00053)	ND (0.00051)	ND (0.00051)	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1.000	ND (0.00072)	ND (0.00070)	ND (0.00070)	ND (0.00033)
Endrin	0.014	410	0.014	0.060	ND (0.00041)	ND (0.00039)	ND (0.00039)	ND (0.00025)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00076)	ND (0.00073)	ND (0.00073)	ND (0.00040)
Endrin ketone	NC	NC	NC	NC	ND (0.00052)	ND (0.00050)	ND (0.00050)	ND (0.00031)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00037)	ND (0.00035)	ND (0.00035)	ND (0.00038)
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00047)	ND (0.00047)	ND (0.00037)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00038)	ND (0.00038)	ND (0.00029)
Methoxychlor	NC	NC	1.2	900	ND (0.00057)	ND (0.00054)	ND (0.00054)	ND (0.00075)
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.0097)	ND (0.0097)
2,4-D	NC	NC	NC	0.5	ND (0.0050)	ND (0.0048)	ND (0.0048)	ND (0.0051)
2,4,5-TP (Silvex)	3.8	1.000	NC	3.8	ND (0.00061)	ND (0.00058)	ND (0.00058)	ND (0.00062)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00071)	ND (0.00068)	ND (0.00068)	ND (0.00072)
Dichloroprop	NC	NC	NC	NC	ND (0.0041)	ND (0.0039)	ND (0.0039)	ND (0.0042)
Dinoseb	NC	NC	NC	NC	ND (0.0033)	ND (0.0031)	ND (0.0031)	ND (0.0033)
MCPA	NC	NC	NC	NC	ND (0.55)	ND (0.52)	ND (0.53)	ND (0.56)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.29)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0011)	ND (0.0011)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.012)

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00040) - Not Detected (Method Detection Limit)

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

TRC Sample ID/Depth	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-9-WC
Date Sampled	09/06/12	09/13/12	09/06/12
Lab Sample No.	JB15634-22/22A	JB16374-2/2A	JB19256-7/7A
Matrix	Soil	Soil	Soil
Depth Interval	Composite	Composite	Composite

RCRA CHARACTERISTICS	Regulatory Level*	Results	Results	Results
Cyanide Reactivity (mg/kg)	250	<12	<12	<12
Sulfide Reactivity (mg/kg)	500	<120	<120	278
Corrosivity as pH (su)	<2 or >12.5	8.18 NC	8.25 NC	11.91 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200	>200	>200
Paint Filter (ml/100g)	NC	<0.50	<0.50	<0.50
Moisture, Percent (%)	NC	15.8	13.5	13.1
Total Organic Halides (mg/kg)	NC	NA	<23	<23
Total Sulfur (mg/kg)	NC	NA	NA	NA

Legend

* United States Environmental Protection Agency (USEPA)

Maximum Concentration of Contaminants for Toxicity

c = No free liquids. Detection limit raised due to limited volume.

NC - No criterion

NA - Not Analyzed

<12 - Less than the reporting limit

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					Sample ID/Depth	NYC-4H-ENV-2-WC	NYC-4H-ENV-4-WC	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC
					Lab Sample ID	JB15634-21	JB15634-20	JB15634-22	JB15634-9
					Sampling Date	9/6/2012	9/6/2012	9/6/2012	9/6/2012
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.011)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.036)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.038)	ND (0.039)	ND (0.041)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.031)	ND (0.032)	ND (0.033)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.055)	ND (0.053)	ND (0.054)	ND (0.057)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)	ND (0.055)	ND (0.057)	ND (0.059)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.040)	ND (0.041)	ND (0.043)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.015)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.011)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.033)	ND (0.034)	ND (0.036)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.018)	ND (0.019)	ND (0.020)	
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.039)	ND (0.038)	ND (0.038)	ND (0.040)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.035)	ND (0.036)	ND (0.037)	
3&4-Methylphenol	NC	NC	NC	NC	ND (0.043)	ND (0.042)	ND (0.043)	ND (0.045)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0087)	ND (0.0084)	ND (0.0086)	ND (0.0090)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.014)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.042)	ND (0.040)	ND (0.041)	ND (0.043)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.013)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.034)	ND (0.033)	ND (0.034)	ND (0.035)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.010)	ND (0.011)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.014)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.058)	ND (0.056)	ND (0.057)	ND (0.060)	
Acenaphthene	20	1,000	20	98	ND (0.0099)	ND (0.0096)	ND (0.0098)	0.0608	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	0.0503	
Acetophenone	NC	NC	NC	NC	ND (0.0060)	ND (0.0058)	ND (0.0059)	ND (0.0062)	
Anthracene	100	1,000	NC	1,000	0.0298	J	ND (0.012)	0.0300	
Atrazine	NC	NC	NC	NC	ND (0.0067)	ND (0.0065)	ND (0.0066)	ND (0.0070)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)	ND (0.0076)	ND (0.0078)	ND (0.0081)	
Benzo(a)anthracene	1	11	NC	1	0.1030	0.0605	0.1240	0.5450	
Benzo(a)pyrene	1	1	2.6	22	0.0868	0.0679	0.1130	0.5030	
Benzo(b)fluoranthene	1	11	NC	2	0.1090	0.0486	0.1140	0.4880	
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.0566	0.0562	0.0810	0.2860	
Benzo(k)fluoranthene	1	110	NC	2	0.0400	0.0562	0.0571	0.2710	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.014)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.010)	ND (0.011)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.030)	0.2440	0.0482	J	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.019)	ND (0.020)	ND (0.020)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.015)	ND (0.016)	0.0645	
Chrysene	1	110	NC	1	0.1020	0.0583	0.1300	J	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0147	J	ND (0.011)	0.0178	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.0098)	ND (0.010)	0.0276	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	0.0607	J	0.0579	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0076)	ND (0.0073)	ND (0.0075)	ND (0.0078)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.017)	
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0040)	ND (0.0038)	ND (0.0039)	ND (0.0041)	
Fluoranthene	100	1,000	NC	1,000	0.1940	0.1050	0.2050	1.3300	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	0.0649	
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0095)	ND (0.0092)	ND (0.0094)	ND (0.0098)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.036)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0095)	ND (0.0092)	ND (0.0094)	ND (0.0098)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.0479	0.0414	0.0655	0.2460	
Isophorone	NC	NC	NC	4	ND (0.0092)	ND (0.0089)	ND (0.0091)	ND (0.0095)	
Naphthalene	12	1,000	NC	12	ND (0.0093)	ND (0.0090)	ND (0.0092)	ND (0.0097)	
Nitrobenzene	NC	140	40	0.17	ND (0.0098)	ND (0.0095)	ND (0.0098)	ND (0.010)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0083)	ND (0.0080)	ND (0.0082)	ND (0.0086)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.021)	
Pentachlorophenol	1	55	0.8	1	ND (0.058)	ND (0.056)	ND (0.058)	ND (0.060)	
Phenanthrene	100	1,000	NC	1,000	0.1030	0.0407	0.1060	0.7880	
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.035)	ND (0.035)	ND (0.037)	
Pyrene	100	1,000	NC	1,000	0.1640	0.0925	0.1840	1.1000	
Total SVOCs	NC	NC	NC	NC	0.89	0.84	0.89	5.51	

Notes:
 mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

NYC-4H TRACT WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					NYC-4H-ENV-5W+6 COMP	NYC-4H-ENV-6-WC	NYC-4H-ENV-8-WC	NYC-4H-ENV-9-WC		
Lab Sample ID					JB16374-2	JB16374-1	JB14034-7	JB19256-7		
Sampling Date					9/13/2012	9/13/2012	8/17/2012	10/13/2012		
Matrix					Soil	Soil	Soil	Soil		
Units					mg/kg	mg/kg	mg/kg	mg/kg		
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result		
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)		
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA		
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.037)	ND (0.040)	ND (0.034)	ND (0.037)		
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.042)	ND (0.045)	ND (0.038)	ND (0.042)		
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.034)	ND (0.036)	ND (0.031)	ND (0.034)		
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.058)	ND (0.062)	ND (0.053)	ND (0.058)		
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.060)	ND (0.065)	ND (0.055)	ND (0.060)		
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.044)	ND (0.047)	ND (0.040)	ND (0.044)		
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.014)	ND (0.016)		
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.015)	ND (0.012)	ND (0.014)		
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)		
2-Chlorophenol	NC	NC	0.8	NC	ND (0.036)	ND (0.039)	ND (0.033)	ND (0.036)		
2-Methylnaphthalene	NC	NC	NC	36.4	0.1440	0.0649	J	0.0322		
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.041)	ND (0.044)	ND (0.037)	ND (0.041)		
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.017)	ND (0.014)	ND (0.016)		
2-Nitrophenol	NC	NC	7	0.3	ND (0.038)	ND (0.041)	ND (0.035)	ND (0.038)		
3&4-Methylphenol	NC	NC	NC	NC	ND (0.046)	ND (0.049)	ND (0.041)	ND (0.046)		
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0091)	ND (0.0098)	ND (0.0083)	ND (0.0091)		
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)		
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.044)	ND (0.047)	ND (0.040)	ND (0.044)		
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.012)	ND (0.013)		
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.036)	ND (0.039)	ND (0.033)	ND (0.036)		
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)		
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.0098)	ND (0.011)		
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA		
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)		
4-Nitrophenol	NC	NC	7	0.3	ND (0.061)	ND (0.065)	ND (0.055)	ND (0.061)		
Acenaphthene	20	1,000	20	98	0.4090	0.2240	ND (0.0095)	0.1040		
Acenaphthylene	100	1,000	NC	107	0.1240	0.1120	ND (0.010)	0.1200		
Acetophenone	NC	NC	NC	NC	0.0188	J	0.0158	J	ND (0.0057)	ND (0.0063)
Anthracene	100	1,000	NC	1,000	0.6270	0.5040	0.0469	0.7000		
Atrazine	NC	NC	NC	NC	ND (0.0071)	ND (0.0076)	ND (0.0064)	ND (0.0071)		
Benzaldehyde	NC	NC	NC	NC	ND (0.0083)	ND (0.0089)	ND (0.0075)	ND (0.0082)		
Benzo(a)anthracene	1	11	NC	1	1.38	1.29	NC	1.2		
Benzo(a)pyrene	1	1	2.6	22	1.30	1.31	0.1970	0.9580		
Benzo(b)fluoranthene	1	11	NC	2	1.33	1.16	0.1660	0.7580		
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.7970	0.8080	0.1320	0.5440		
Benzo(k)fluoranthene	1	110	NC	2	0.6640	0.7810	0.1340	0.7650		
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.013)	ND (0.014)		
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.0098)	ND (0.011)		
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.0409	J	0.0586	J	0.2190	0.1170
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	0.0455	J	ND (0.019)	ND (0.021)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)		
Carbazole	NC	NC	NC	NC	0.2260	0.1550	ND (0.015)	0.1900		
Chrysene	1	110	NC	1	1.39	1.34	0.1860	1.1		
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.2640	0.2870	0.0359	0.2120		
Dibenzofuran	7	1,000	NC	210	0.2440	0.1280	ND (0.0097)	0.1130		
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.013)	ND (0.011)	ND (0.012)		
Dimethyl phthalate	NC	NC	200	27	0.0869	0.1010	ND (0.011)	ND (0.013)		
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0080)	ND (0.0085)	ND (0.0073)	ND (0.0080)		
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.019)	ND (0.016)	ND (0.017)		
1,1'-Biphenyl	NC	NC	60	NC	0.0433	J	0.0253	J	ND (0.0038)	ND (0.0042)
Fluoranthene	100	1,000	NC	1,000	3.7100	3.2600	0.3700	2.8700		
Fluorene	30	1,000	30	386	0.4150	0.2290	ND (0.011)	0.2770		
Hexachlorobenzene	0	12	NC	3	ND (0.012)	ND (0.013)	ND (0.011)	ND (0.012)		
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.0091)	ND (0.010)		
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.037)	ND (0.039)	ND (0.033)	ND (0.037)		
Hexachloroethane	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.0091)	ND (0.010)		
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.73	0.7	0.1090	0.5		
Isophorone	NC	NC	NC	4	ND (0.0097)	ND (0.010)	ND (0.0088)	ND (0.0096)		
Naphthalene	12	1,000	NC	12	0.1630	0.0840	ND (0.0089)	0.0336		
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.011)	ND (0.0094)	ND (0.010)		
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0088)	ND (0.0094)	ND (0.0080)	ND (0.0087)		
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.023)	ND (0.019)	ND (0.021)		
Pentachlorophenol	1	55	0.8	1	ND (0.061)	ND (0.066)	ND (0.056)	ND (0.061)		
Phenanthrene	100	1,000	NC	1,000	2.5800	1.8200	0.1590	2.5700		
Phenol	0.33	1,000	30	0.33	ND (0.038)	ND (0.040)	ND (0.034)	ND (0.038)		
Pyrene	100	1,000	NC	1,000	2.4500	2.3100	0.3140	2.4200		
Total SVOCs	NC	NC	NC	NC	0.89	14.52	1.96	13.09		

Notes:
 mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-2-WC	NYC-4H-ENV-2-WC/2	NYC-4H-ENV-2-WC/4	NYC-4H-ENV-2-WC/6
Lab Sample ID					JB15634-21A	JB15765-3	JB15765-4	JB15765-5
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	58.2	31.4	22.2	17.5

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-2-WC/8	NYC-4H-ENV-4-WC	NYC-4H-ENV-4-WC/2	NYC-4H-ENV-4-WC/4
Lab Sample ID					JB15765-6	JB15634-20A	JB15634-14	JB15634-15
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	17.7	16	51.2	ND (2.0)

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					NYC-4H-ENV-4-WC/6	NYC-4H-ENV-4-WC/8	NYC-4H-ENV-2+4 COMP	NYC-4H-ENV-5W-WC
Sample ID/Depth								
Lab Sample ID					JB15634-16	JB15634-17	JB15634-22	JB15634-9
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	94.7	NA

Notes:

NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-5W-WC/2	NYC-4H-ENV-5W-WC/4	NYC-4H-ENV-5W-WC/6	NYC-4H-ENV-5W-WC/8
Lab Sample ID					JB13937-1	JB13937-3	JB13937-4	JB15634-3
Sampling Date					8/16/2012	8/16/2012	8/16/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	339	115	420	356

Notes:

NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-5W-WC/10	NYC-4H-ENV-5W-WC/12	NYC-4H-ENV-5W-WC/14	NYC-4H-ENV-5W-WC/16
Lab Sample ID					JB15634-10	JB15634-4	JB15634-6	JB15634-7
Sampling Date					9/6/2012	9/6/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	22	32.6	35	ND (2.1)

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-6-WC/4	NYC-4H-ENV-6-WC/6	NYC-4H-ENV-6-WC/2	NYC-4H-ENV-6-WC/4
Lab Sample ID					JB13937-5	JB13937-7	JB15634-11	JB15634-12
Sampling Date					8/16/2012	8/16/2012	9/6/2012	9/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	318	694	75.9	ND (1.7)

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-6-WC/6	NYC-4H-ENV-6-WC/8	NYC-4H-ENV-6-WC/10	NYC-4H-ENV-7-WC/5
Lab Sample ID					JB16099-2	JB16258-1	JB16258-2	JB14034-1
Sampling Date					9/11/2012	9/12/2012	9/12/2012	8/17/2012
Matrix					Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	126	36.5	253	251

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-8-WC	NYC-4H-ENV-8-WC/2	NYC-4H-ENV-8-WC/4	NYC-4H-ENV-8-WC/5.5
Lab Sample ID					JB14034-7	JB14034-3	JB14034-4	JB14034-6
Sampling Date					8/17/2012	8/17/2012	8/17/2012	8/17/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	NA	198	25.3	24.4

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-9-WC	NYC-4H-ENV-9-WC/2	NYC-4H-ENV-9-WC/4	NYC-4H-ENV-9-WC/6
Lab Sample ID					JB19256-7	JB19256-3	JB19256-4	JB19256-5
Sampling Date					10/13/2012	10/13/2012	10/13/2012	10/13/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	NA	207	13.3	39.1

Notes:
 NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

NYC-4H WASTE CHARACTERIZATION
 MANHATTAN, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					NYC-4H-ENV-9-WC/8
Lab Sample ID					JB19256-6
Sampling Date					10/13/2012
Matrix					Soil
Units					mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
TPHC	NC	NC	NC	NC	28.4

Notes:

NC - No Criterion
 ND (2.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	SI-002A/1.5
					Lab Sample ID	JA83820-1	8/16/2011	8/16/2011	JA63663-1
					Sampling Date	8/15/2011	JA83923-1	JA83923-1	12/9/2010
					Matrix	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	314	268	308	426	
Solids, Percent	NC	NC	NC	NC	86.9	85	85	89.8	
pH	NC	NC	NC	NC	8.09	7.64	6.53	7.85	

Notes:

NC = No Criterion

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	SI-002B/3.5	RCH1ENV6/4
					Lab Sample ID	JA63663-2	8/16/2011
					Sampling Date	12/9/2010	JA83923-1
					Matrix	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Redox Potential Vs H2	NC	NC	NC	NC	435	311	
Solids, Percent	NC	NC	NC	NC	87.6	74.2	
pH	NC	NC	NC	NC	8.1	7.17	

Notes:

NC = No Criterion

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID					RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	SI-002A/1.5
Lab Sample ID					JA83820-1	8/17/2011	8/17/2011	JA63663-1A/1
Sampling Date					8/15/2011	JA83967-1	JA83967-2	12/9/2010
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
Aluminum	NC	NC	10,000	NC	9750	5380	4370	4750
Antimony	NC	NC	12	NC	<2.3	<2.3	<2.3	<2.3
Arsenic	13	16	13	16	5.7	9.5	5.8	6.9
Barium	350	10,000	433	820	60.8	142	65.7	69
Beryllium	7.2	2,700	10	47	0.57	0.42	0.39	0.44
Cadmium	2.5	60	4	7.5	<0.56	<0.57	<0.58	<0.58
Calcium	NC	NC	10,000	NC	2460	597	<580	<580
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	27.3	12.1	9.8	10.2
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.5	<0.47	<0.47	<0.45
Cobalt	NC	NC	20	NC	10.2	12.1	5.9	<5.8
Copper	50	10,000	50	1,720	18.6	5.8	19.6	27.4
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	16000	14900	11700	13600
Lead	63	3,900	63	450	19.6	34.2	22.4	17.2
Magnesium	NC	NC	NC	NC	4430	911	758	927
Manganese	1,600	10,000	1,600	2,000	231	148	91.7	117
Mercury (Total)	0.18	5.7	0.18	0.73	0.042	0.046	<0.039	0.035
Nickel	30	10,000	30	130	47.8	8.5	7	8.8
Potassium	NC	NC	NC	NC	1570	<1100	<1200	<1200
Selenium	3.9	6,800	3.9	4	<2.3	<2.3	<2.3	<2.3
Silver	2	6,800	2	8.3	<0.56	<0.57	<0.58	<0.58
Sodium	NC	NC	NC	NC	<1100	<1100	<1200	<1200
Thallium	NC	NC	5	NC	<1.1	<1.1	<1.2	<1.2
Vanadium	NC	NC	39	NC	25.3	29.2	23	20.1
Zinc	109	10,000	109	2,480	48.4	36.5	31.9	28.9

Notes:

NA = Not analyzed

NC = No Criterion

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

⁽¹⁾ = Hexavalent chromium SCO

⁽²⁾ = Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

<3.8 = Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	SI-002B/3.5	RCH-1-ENV-6/4		
		Lab Sample ID	JA63663-2A/2	8/16/2011		
		Sampling Date	12/9/2010	JA83923-1		
		Matrix	Soil	Soil		
		Units	mg/kg	mg/kg		
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
Aluminum	NC	NC	10,000	NC	7350	6970
Antimony	NC	NC	12	NC	<2.2	3.8
Arsenic	13	16	13	16	3.9	31.1
Barium	350	10,000	433	820	42.3	541
Beryllium	7.2	2,700	10	47	0.36	0.31
Cadmium	2.5	60	4	7.5	<0.56	<0.50
Calcium	NC	NC	10,000	NC	18100	743
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	50.9	14.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46	1.2
Cobalt	NC	NC	20	NC	29.7	<5.0
Copper	50	10,000	50	1,720	13.7	189
Cyanide (Total)	27	10,000	NC	40	NA	NA
Iron	NC	NC	NC	NC	26500	12900
Lead	63	3,900	63	450	20.5	295
Magnesium	NC	NC	NC	NC	57800	1570
Manganese	1,600	10,000	1,600	2,000	522	83.5
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	0.27
Nickel	30	10,000	30	130	907	16.5
Potassium	NC	NC	NC	NC	<1100	<990
Selenium	3.9	6,800	3.9	4	<2.2	3.3
Silver	2	6,800	2	8.3	<0.56	0.75
Sodium	NC	NC	NC	NC	<1100	<990
Thallium	NC	NC	5	NC	<1.1	<0.99
Vanadium	NC	NC	39	NC	20.4	88.3
Zinc	109	10,000	109	2,480	37.8	44.7

Notes:

NA = Not analyzed

NC = No Criterion

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

⁽¹⁾ = Hexavalent chromium SCO

⁽²⁾ = Sample analyzed for hexavalent chromium. Hexavalent chromium was not detected.

<3.8 = Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	SI-002A/1.5
					Lab Sample ID	JA83820-1		JA63663-1A	
					Sampling Date	8/15/2011		12/9/2010	
					Matrix	Soil		Soil	
					Units	mg/kg		mg/kg	
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0088)	ND (0.0090)	ND (0.0090)	ND (0.012)	
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.021)	ND (0.021)	ND (0.022)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.011)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.0065)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.0083)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.013)	
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.0074)	
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.0066)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 NC = No Criterion
 ND (0.015) = Not Detected (Method Detection Limit)
 mg/kg = milligrams per kilogram
 SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

		Sample ID		SI-002B/3.5	RCH-1-ENV-6/4	
		Lab Sample ID		JA63663-2A	8/16/2011	
		Sampling Date		12/9/2010	JA83923-1	
		Matrix		Soil	Soil	
		Units		mg/kg	mg/kg	
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.012)	ND (0.010)
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.011)	ND (0.020)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.0067)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.0085)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.0076)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.0068)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:

NC = No Criterion

ND (0.015) = Not Detected (Method Detection Limit)

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	RCH-1-ENV-6/4
					Lab Sample ID	JA83820-1	8/17/2011	8/17/2011	JA83923-1
					Sampling Date	8/15/2011	JA83967-1	JA83967-2	8/16/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial	SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
						Result	Result	Result	Result
4,4'-DDD	0.0033	0.18		0.0033	14	0.0088	0.0516	0.0372	0.0027
4,4'-DDE	0.0033	120		0.0033	17	0.0035	0.0395	0.018	0.0032
4,4'-DDT	0.0033	94		0.0033	136	ND (0.00050)	0.0043	0.0035	ND (0.00057)
Aldrin	0.005	1.4		0.14	0.19	ND (0.00034)	ND (0.00035)	ND (0.00035)	ND (0.00039)
alpha-BHC	0.02	6.8		0.04	0.02	ND (0.00051)	ND (0.00052)	ND (0.00052)	ND (0.00058)
alpha-Chlordane	0.094	47		1.3	2.9	ND (0.00044)	ND (0.00045)	ND (0.00045)	ND (0.00051)
beta-BHC	0.036	14		0.6	0.09	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00055)
Chlordane	NC	NC		NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC		NC	14	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00040)
delta-BHC	0.04	1,000		0.04	0.25	ND (0.00040)	ND (0.00040)	ND (0.00040)	ND (0.00045)
Dieldrin	0.005	2.8		0.006	0.1	ND (0.00052)	ND (0.00054)	ND (0.00054)	ND (0.00060)
Endosulfan I	2.4	920		NC	102	ND (0.00033)	ND (0.00036)	ND (0.00033)	ND (0.00036)
Endosulfan II	2.4	920		NC	102	ND (0.00045)	ND (0.00049)	ND (0.00046)	ND (0.00049)
Endosulfan sulfate	2.4	920		NC	1,000	ND (0.00061)	ND (0.00063)	ND (0.00063)	ND (0.00071)
Endrin	0.014	410		0.014	0.060	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00040)
Endrin aldehyde	NC	NC		NC	NC	ND (0.00064)	ND (0.00066)	ND (0.00066)	ND (0.00074)
Endrin ketone	NC	NC		NC	NC	ND (0.00044)	ND (0.00045)	ND (0.00045)	ND (0.00051)
gamma-BHC (Lindane)	0.1	23		6	0.1	ND (0.00031)	ND (0.00032)	ND (0.00032)	ND (0.00036)
Heptachlor	0.042	29		0.14	0.38	ND (0.00041)	ND (0.00042)	ND (0.00042)	ND (0.00048)
Heptachlor epoxide	NC	NC		NC	0.02	ND (0.00033)	ND (0.00034)	ND (0.00034)	ND (0.00038)
Methoxychlor	NC	NC		NC	900	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00055)
Toxaphene	NC	NC		NC	NC	ND (0.00085)	ND (0.00087)	ND (0.00087)	ND (0.00098)
2,4-D	NC	NC		NC	0.5	ND (0.0048)	ND (0.0049)	ND (0.0049)	ND (0.0056)
2,4,5-TP (Silvex)	3.8	1,000		NC	3.8	ND (0.00058)	ND (0.00059)	ND (0.00059)	ND (0.00067)
2,4,5-T	NC	NC		NC	1.9	ND (0.0014)	ND (0.0015)	ND (0.0015)	ND (0.0017)
Dalapon	NC	NC		NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0012)	ND (0.0013)
Dicamba	NC	NC		NC	NC	ND (0.00067)	ND (0.00069)	ND (0.00069)	ND (0.00079)
Dichloroprop	NC	NC		NC	NC	ND (0.00039)	ND (0.00040)	ND (0.00040)	ND (0.00045)
Dinoseb	NC	NC		NC	NC	ND (0.00031)	ND (0.00032)	ND (0.00032)	ND (0.00036)
MCPA	NC	NC		NC	NC	ND (0.52)	ND (0.53)	ND (0.53)	ND (0.61)
MCPP	NC	NC		NC	NC	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)
Pentachlorophenol	0.8	55		0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0013)
2,4-DB	NC	NC		NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.013)

Notes:
NC = No Criterion
NA = Not Analyzed
ND (0.00056) = Not Detected (Method Detection Limit)
mg/kg = milligrams per kilogram
SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID	RCH-1-ACR-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	SI-002A/1.5				
Sampling Date	8/15/2011	8/17/2011	8/17/2011	JA63663-1A				
Lab Sample ID	JA83820-1	JA83967-1	JA83967-2	12/9/2010				
Matrix	Soil	Soil	Soil	Soil				
Units	mg/kg	mg/kg	mg/kg	mg/kg				
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0097)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.034)	ND (0.033)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.039)	ND (0.038)	ND (0.037)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.030)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.054)	ND (0.053)	ND (0.051)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.056)	ND (0.056)	ND (0.053)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.041)	ND (0.040)	ND (0.039)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0098)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.032)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.044)	ND (0.038)	ND (0.036)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.049)	ND (0.042)	ND (0.040)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0083)	ND (0.0085)	ND (0.0084)	ND (0.0080)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	NA	NA	ND (0.039)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.032)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.0095)
4-Methylphenol	NC	NC	NC	NC	ND (0.041)	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.056)	ND (0.056)	ND (0.053)
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.0097)	ND (0.0096)	ND (0.0092)
Acenaphthylene	100	1,000	NC	107	0.0257	J 0.0162	J ND (0.011)	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0059)	ND (0.0058)	ND (0.0056)
Anthracene	100	1,000	NC	1,000	0.0421	ND (0.012)	ND (0.012)	ND (0.011)
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0066)	ND (0.0065)	ND (0.0062)
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0077)	ND (0.0076)	ND (0.0073)
Benzo[a]anthracene	1	11	NC	1	0.1460	0.0430	0.0255	0.0152
Benzo[a]pyrene	1	1.1	2.6	22	0.1250	0.0508	0.0308	ND (0.0096)
Benzo[b]fluoranthene	1	11	NC	1.7	0.1530	0.0836	0.0589	ND (0.011)
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0760	0.0407	0.0240	ND (0.012)
Benzo[k]fluoranthene	0.8	110	NC	1.7	0.0838	0.0311	J 0.0212	ND (0.012)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.010)	ND (0.0095)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.028)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.018)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	0.0194	J ND (0.015)	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	0.1450	0.0567	0.0365	0.0150
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.0367	0.0166	J ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.0097)	ND (0.0099)	ND (0.0098)	ND (0.0094)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.0359	J 0.0335	J ND (0.012)	0.0593
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0074)	ND (0.0074)	ND (0.0070)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0038)	NA	NA	ND (0.0037)
Fluoranthene	100	1,000	NC	1,000	0.3180	0.0905	0.0568	0.0319
Fluorene	30	1,000	30	386	0.0144	J ND (0.011)	ND (0.011)	ND (0.010)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0093)	ND (0.0092)	ND (0.0088)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.034)	ND (0.034)	ND (0.032)
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0093)	ND (0.0092)	ND (0.0088)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.0708	0.0376	0.0216	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0087)	ND (0.0090)	ND (0.0089)	ND (0.0085)
Naphthalene	12	1,000	NC	12	ND (0.0089)	ND (0.0091)	ND (0.0090)	ND (0.0086)
Nitrobenzene	NC	140	40	0.17	ND (0.0094)	0.6360	0.3030	ND (0.0091)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0081)	ND (0.0081)	ND (0.0077)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.020)	ND (0.020)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.0011)	ND (0.057)	ND (0.057)	ND (0.054)
Phenanthrene	100	1,000	NC	1,000	0.1150	0.0370	0.0224	ND (0.014)
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.033)
Pyrene	100	1,000	NC	1,000	0.2350	0.0829	0.0506	0.0270
Total SVOCs	NC	NC	NC	NC	1.64	1.26	0.65	0.15

Notes:
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NA = Not Analyzed
NC = No Criterion
ND (0.017) = Not Detected (Method Detection Limit)
mg/kg = milligrams per kilogram
SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

		Sample ID	SI-002B/3.5	RCH-1-ENV-6/4		
		Sampling Date	JA63663-2A	8/16/2011		
		Lab Sample ID	12/9/2010	JA83923-1		
		Matrix	Soil	Soil		
		Units	mg/kg	mg/kg		
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.012)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.040)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.045)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.036)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.053)	ND (0.062)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.065)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.047)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.017)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.015)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.012)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.039)
2-Methylnaphthalene	NC	NC	NC	36.4	0.0839	ND (0.021)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.044)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.017)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.041)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.049)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0083)	ND (0.0098)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.015)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	NA
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.014)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.038)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.012)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.012)
4-Methylphenol	NC	NC	NC	NC	NA	ND (0.044)
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.015)
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.065)
Acenaphthene	20	1,000	20	98	0.09	ND (0.011)
Acenaphthylene	100	1,000	NC	107	0.0421	ND (0.012)
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0068)
Anthracene	100	1,000	NC	1,000	0.0841	ND (0.013)
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0076)
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0088)
Benzo[a]anthracene	1	11	NC	1	0.282	0.0326 J
Benzo[a]pyrene	1	1.1	2.6	22	0.296	0.0324 J
Benzo[b]fluoranthene	1	11	NC	1.7	0.297	0.0376 J
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.2	0.0291 J
Benzo[k]fluoranthene	0.8	110	NC	1.7	0.128	0.0282 J
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.016)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.012)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.034)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.022)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.012)
Carbazole	NC	NC	NC	NC	0.0172	J ND (0.018)
Chrysene	1	110	NC	1	0.363	0.0441
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.109	ND (0.013)
Dibenzofuran	7	1,000	NC	210	0.0507	J ND (0.011)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.013)
Dimethyl phthalate	NC	NC	200	27	0.0327	J 0.0742 J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0085)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.019)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0038)	ND (0.0045)
Fluoranthene	100	1,000	NC	1,000	0.437	0.0684
Fluorene	30	1,000	30	386	0.113	ND (0.013)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.013)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0091)	ND (0.011)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.039)
Hexachloroethane	NC	NC	NC	NC	ND (0.0091)	ND (0.011)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.163	0.0267 J
Isophorone	NC	NC	NC	4	ND (0.0088)	ND (0.010)
Naphthalene	12	1,000	NC	12	0.0443	ND (0.010)
Nitrobenzene	NC	140	40	0.17	ND (0.0094)	ND (0.011)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0080)	ND (0.0094)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.023)
Pentachlorophenol	1	55	0.8	1	ND (0.056)	ND (0.066)
Phenanthrene	100	1,000	NC	1,000	0.358	0.0340 J
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.040)
Pyrene	100	1,000	NC	1,000	0.465	0.056
Total SVOCs	NC	NC	NC	NC	3.66	0.5

Notes:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA = Not Analyzed

NC = No Criterion

ND (0.017) = Not Detected (Method Detection Limit)

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

						Sample ID	RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4
						Sampling Date	8/15/2011	JA83967-1	JA83967-2
						Lab Sample ID	JA83820-1	8/17/2011	8/17/2011
						Matrix	Soil	Soil	Soil
						Units	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	
	TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.3)	ND (2.4)	ND (2.4)	
	TPH-DRO (C10-C44)	NC	NC	NC	NC	150	62.5	ND (12)	

Notes:

DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 NC = No Criterion
 ND (5.2) = Not Detected (Method Detection Limit)
 SCO = Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-1-ARC-MT-4/2	RCH-1-ENV-3/1.5	RCH-1-ENV-3/4	SI-002A/1.5	
					Sampling Date	8/15/2011	8/17/2011	8/17/2011	JA63663-1A	
					Lab Sample ID	JA83820-1	JA83967-1	JA83967-2	40521	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
					Result	Result	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00023)	ND (0.00026)	ND (0.00034)	ND (0.00016)		
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00017)	ND (0.00021)	ND (0.00025)	ND (0.00036)		
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00050)	ND (0.00061)	ND (0.00023)		
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00021)	ND (0.00025)	ND (0.00031)	ND (0.00017)		
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00058)	ND (0.00071)	ND (0.00086)	ND (0.00082)		
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00041)	ND (0.00051)	ND (0.00061)	ND (0.00073)		
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00032)	ND (0.00039)	ND (0.00048)	ND (0.00043)		
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA		
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0014)	ND (0.0017)	ND (0.0021)	ND (0.00067)		
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00027)	ND (0.00033)	ND (0.00017)		
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00026)	ND (0.00032)	ND (0.00039)	ND (0.00033)		
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00017)	ND (0.00021)	ND (0.00025)	ND (0.00043)		
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00025)	ND (0.00031)	ND (0.00037)	ND (0.00016)		
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA		
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00018)	ND (0.00022)	ND (0.00027)	ND (0.00034)		
1,4-Dichlorobenzene	2	250	20	2	ND (0.00016)	ND (0.00020)	ND (0.00024)	ND (0.00042)		
1,4-Dioxane	0.1	250	1	0.1	ND (0.055)	ND (0.067)	ND (0.082)	ND (0.11)		
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0041)	ND (0.0050)	0.0104	J	ND (0.0024)	
2-Hexanone	NC	NC	NC	NC	ND (0.0023)	ND (0.0029)	ND (0.0035)	ND (0.0012)		
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0025)	ND (0.0030)	ND (0.0037)	ND (0.0010)		
Acetone	0.05	1,000	2.2	0.05	0.0146	ND (0.0076)	0.0594	ND (0.0028)		
Benzene	0.06	89	70	0.06	ND (0.00013)	ND (0.00015)	ND (0.00019)	ND (0.00042)		
Bromochloromethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00060)	ND (0.00073)	ND (0.00027)		
Bromodichloromethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00026)	ND (0.00031)	ND (0.00032)		
Bromoform	NC	NC	NC	NC	ND (0.00071)	ND (0.00087)	ND (0.0011)	ND (0.00019)		
Bromomethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00045)	ND (0.00055)	ND (0.00050)		
Carbon disulfide	NC	NC	NC	2.7	0.00029	J	ND (0.00023)	0.0012	J	ND (0.00038)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00033)	ND (0.00040)	ND (0.00048)	ND (0.00069)		
Chlorobenzene	1	1,000	40	1	ND (0.00030)	ND (0.00037)	ND (0.00045)	ND (0.00042)		
Chloroethane	NC	NC	NC	1.9	ND (0.00038)	ND (0.00047)	ND (0.00057)	ND (0.0012)		
Chloroform	0.37	700	12	0.37	ND (0.00046)	ND (0.00056)	ND (0.00068)	ND (0.00039)		
Chloromethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00072)	ND (0.00087)	ND (0.00020)		
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00030)	ND (0.00037)	ND (0.00045)	ND (0.00030)		
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00014)	ND (0.00018)	ND (0.00021)	ND (0.00016)		
Cyclohexane	NC	NC	NC	NC	ND (0.00036)	ND (0.00044)	ND (0.00053)	ND (0.00019)		
Dibromochloromethane	NC	NC	10	NC	ND (0.00016)	ND (0.00019)	ND (0.00024)	ND (0.00014)		
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00037)	ND (0.00045)	ND (0.00012)		
Ethylbenzene	1	780	NC	1	ND (0.00014)	ND (0.00017)	ND (0.00021)	ND (0.00046)		
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00068)	ND (0.00083)	ND (0.0010)	ND (0.00070)		
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00013)	ND (0.00016)	ND (0.00019)	ND (0.00064)		
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00030)	ND (0.00036)	ND (0.00044)	ND (0.00058)		
Methyl acetate	NC	NC	NC	NC	ND (0.0021)	ND (0.0026)	ND (0.0031)	ND (0.0010)		
Methylcyclohexane	NC	NC	NC	NC	ND (0.00023)	ND (0.00028)	ND (0.00034)	ND (0.00081)		
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00022)	ND (0.00027)	ND (0.00032)	ND (0.00028)		
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00017)	ND (0.00021)	ND (0.00025)	ND (0.00035)		
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA		
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA		
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00017)	ND (0.00021)	ND (0.00026)	ND (0.00058)		
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA		
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA		
Styrene	NC	NC	300	NC	ND (0.00017)	ND (0.00021)	ND (0.00026)	ND (0.00013)		
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA		
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00018)	ND (0.00022)	ND (0.00027)	ND (0.00018)		
Toluene	0.7	1,000	36	0.7	ND (0.00036)	ND (0.00044)	ND (0.00053)	ND (0.00036)		
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00040)	ND (0.00049)	ND (0.00059)	ND (0.00056)		
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00032)	ND (0.00039)	ND (0.00047)	ND (0.00012)		
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00023)	ND (0.00028)	ND (0.00035)	ND (0.00065)		
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00045)	ND (0.00056)	ND (0.00068)	ND (0.00028)		
Vinyl chloride	0.02	27	NC	0.02	ND (0.00043)	ND (0.00053)	ND (0.00065)	ND (0.00022)		
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00017)	ND (0.00021)	ND (0.00026)	ND (0.00058)		
Total VOCs	NC	NC	NC	NC	0.01	ND	0.07	ND		

Notes:
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NA = Not Analyzed
NC = No Criterion
ND (0.00052) = Not Detected (Method Detection Limit)
mg/kg = milligrams per kilogram
SCO = Soil Cleanup Objective
⁽¹⁾ = The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ = Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

RCH-1 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	SI-002B/3.5	RCH-1-ENV-6/4
					Sampling Date	JA63663-2A	8/16/2011
					Lab Sample ID	40521	JA83923-1
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00013)	ND (0.00026)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00030)	ND (0.00028)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00019)	ND (0.00068)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00014)	ND (0.00034)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00067)	ND (0.00096)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00060)	ND (0.00069)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00035)	ND (0.00053)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.00055)	ND (0.0024)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00014)	ND (0.00037)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00028)	ND (0.00043)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00035)	ND (0.00029)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00013)	ND (0.00042)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00028)	ND (0.00030)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00034)	ND (0.00027)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.088)	ND (0.091)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0020)	ND (0.0068)	
2-Hexanone	NC	NC	NC	NC	ND (0.00098)	ND (0.0039)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00083)	ND (0.0028)	
Acetone	0.05	1,000	2.2	0.05	0.0107	0.15	
Benzene	0.06	89	70	0.06	ND (0.00035)	ND (0.00021)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00081)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00035)	
Bromoform	NC	NC	NC	NC	ND (0.00015)	ND (0.0012)	
Bromomethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00062)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00031)	0.00075	J
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00057)	ND (0.00054)	
Chlorobenzene	1	1,000	40	1	ND (0.00035)	ND (0.00050)	
Chloroethane	NC	NC	NC	1.9	ND (0.0010)	ND (0.00064)	
Chloroform	0.37	700	12	0.37	ND (0.00032)	ND (0.00076)	
Chloromethane	NC	NC	NC	NC	ND (0.00017)	ND (0.00098)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00024)	ND (0.00050)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00014)	ND (0.00024)	
Cyclohexane	NC	NC	NC	NC	ND (0.00015)	ND (0.00059)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00011)	ND (0.00026)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00096)	ND (0.00050)	
Ethylbenzene	1	780	NC	1	ND (0.00038)	ND (0.00023)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00057)	ND (0.00076)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00053)	ND (0.00021)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00048)	ND (0.00033)	
Methyl acetate	NC	NC	NC	NC	ND (0.00084)	ND (0.00035)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00067)	ND (0.00038)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00023)	ND (0.00036)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00029)	ND (0.00019)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00048)	ND (0.00029)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00011)	ND (0.00029)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00015)	ND (0.00020)	
Toluene	0.7	1,000	36	0.7	ND (0.00030)	ND (0.00059)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00046)	ND (0.00066)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00098)	ND (0.00053)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00054)	ND (0.00026)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00023)	ND (0.00076)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00018)	ND (0.00072)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00048)	ND (0.00029)	
Total VOCs	NC	NC	NC	NC	0.01	0.15	

Notes:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NA = Not Analyzed

NC = No Criterion

ND (0.00052) = Not Detected (Method Detection Limit)

mg/kg = milligrams per kilogram

SCO = Soil Cleanup Objective

⁽¹⁾ = The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ = Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY N.J.-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-1-ENV-1-WC	RCH-1-ENV-1/I1	RCH-1-ENV-1/E	RCH-1-ENV-2W-WC	RCH-1-ENV-2W/I1			
Lab Sample ID		JB25498-6	JB25498-4	JB25498-5	JB25498-3	JB25498-1			
Sampling Date		1/2/2013	1/2/2013	1/2/2013	1/2/2013	1/2/2013			
Matrix		Soil	Soil	Soil	Soil	Soil			
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Redox Potential Vs. H ₂ (mv)	NC	NC	NC	NC	347	NA	NA	339	NA
Soils %	NC	NC	NC	NC	79.7	79.4	79.8	89.7	87.9
pH (soil)	NC	NC	NC	NC	5.3	NA	NA	5.05	NA

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY N.J.-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-1-ENV-2W/7	RCH-1-MR-1-WC	RCH-1-MR-1/S	RCH-1-MR-1/7	RCH-1-MR-2/3 COMP			
Lab Sample ID		JB26498-2	JB26656-4	JB26656-1	JB26658-2	JB26656-3			
Sampling Date		1/2/2013	1/16/2013	1/16/2013	1/16/2013	1/16/2013			
Matrix		Soil	Soil	Soil	Soil	Soil			
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Redox Potential Vs. H ₂ (mv)	NC	NC	NC	NC	NA	432	NA	NA	361
Specific Conductivity (µS/cm)	NC	NC	NC	NC	70.5	79.6	77.6	83.8	73
pH (soil)	NC	NC	NC	NC	NA	4.66	NA	NA	6.65

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-1 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY N.J.-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-1-MR-4-WC	RCH-1-MR-4-Z	RCH-1-MR-4/E			
Lab Sample ID		JB26458-3	JB26458-1	JB26458-2			
Sampling Date		1/14/2013	1/14/2013	1/14/2013			
Matrix		Soil	Soil	Soil			
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Redox Potential Vs. H ₂ (mv)	NC	NC	NC	NC	379	NA	NA
Salinity %	NC	NC	NC	NC	81.4	80.5	83.9
pH (soil)	NC	NC	NC	NC	4.96	NA	NA

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

TRC Sample No.:	RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC	RCH-1-MR-4-WC
Date Sampled:	01/02/13	01/02/13	01/14/13
Lab Sample No.:	JB25498-6R	JB25498-3R	JB26458-3R
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)			
Arsenic	5.0	<0.50	<0.50	<0.50
Barium	100.0	<1.0	<1.0	<1.0
Cadmium	1.0	<0.0050	<0.0050	<0.0050
Chromium	5.0	<0.010	<0.010	<0.010
Copper	NC	NA	NA	NA
Lead	5.0	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020	<0.00020
Nickel	NC	NA	NA	NA
Selenium	1.0	<0.50	<0.50	<0.50
Silver	5.0	<0.010	<0.010	<0.010
Zinc	NC	NA	NA	NA

Legend:

TCLP: Toxicity Characteristic Leaching Procedure

NC - No criterion

Bold with yellow highlight indicates concentration above EPA TCLP Regulatory Level

RCH-1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC	RCH-1-MR-1-WC	RCH-1-MR-2+3 COMP	
					Lab Sample ID	JB25498-6	JB25498-3	JB26656-4	JB26656-3
					Sampling Date	1/2/2013	1/2/2013	1/16/2013	1/16/2013
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
	Aluminum	NC	NC	10000	NC	5050	6330	5460	7260
Antimony	NC	NC	12	NC	<2.4	<2.3	<2.4	<2.4	
Arsenic	13	16	13	16	5.5	6	5.2	5.9	
Barium	350	10,000	433	820	27.1	45.1	<24	55.8	
Beryllium	7.2	2,700	10	47	0.45	0.5	0.46	0.56	
Cadmium	2.5	60	4	7.5	<0.60	<0.58	<0.61	<0.61	
Calcium	NC	NC	10000	NC	<600	<580	<610	898	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	10.7	12.1	11.7	13.4	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.50	1.2	<0.50	0.7	
Chromium (Trivalent)	30	6800	41	NC	10.2	10.9	11.4	12.7	
Cobalt	NC	NC	20	NC	6.7	<5.8	<6.1	<6.1	
Copper	50	10,000	50	1,720	10.6	28	18.2	24.8	
Cyanide (Total)	27	10,000	NC	40	<0.30	<0.27	<0.28	<0.28	
Iron	NC	NC	NC	NC	15400	14500	14900	16500	
Lead	63	3,900	63	450	6.5	51.6	10.3	19.5	
Magnesium	NC	NC	NC	NC	1020	1000	993	1510	
Manganese	1,600	10,000	1600	2,000	255	161	121	192	
Mercury (Total)	0.18	5.7	0.18	0.73	<0.037	<0.040	<0.036	0.043	
Molybdenum	NC	NC	2	NC	<2.4	<2.3	<2.4	<2.4	
Nickel	30	10,000	30	130	6.3	6.9	5.7	8	
Potassium	NC	NC	NC	NC	1280	<1200	<1200	1270	
Selenium	3.9	6,800	3.9	4	<2.4	<2.3	<2.4	<2.4	
Silver	2	6,800	2	8.3	<0.60	<0.58	<0.61	<0.61	
Sodium	NC	NC	NC	NC	<1200	<1200	<1200	<1200	
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<1.2	
Vanadium	NC	NC	39	NC	16.9	19.9	18.2	22.7	
Zinc	109	10,000	109	2,480	28.3	32.6	27.3	32.3	

Legend:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.4 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

a - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-1-MR-4-WC
Lab Sample ID					JB26458-3
Sampling Date					1/14/2013
Matrix					Soil
Units					mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Aluminum	NC	NC	10000	NC	5320
Antimony	NC	NC	12	NC	<2.5
Arsenic	13	16	13	16	6.6
Barium	350	10,000	433	820	35.8
Beryllium	7.2	2,700	10	47	0.49
Cadmium	2.5	60	4	7.5	<0.63
Calcium	NC	NC	10000	NC	<630
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	11.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.49
Chromium (Trivalent)	30	6800	41	NC	11.3
Cobalt	NC	NC	20	NC	7.1
Copper	50	10,000	50	1,720	11.6
Cyanide (Total)	27	10,000	NC	40	<0.27
Iron	NC	NC	NC	NC	15600
Lead	63	3,900	63	450	12.9
Magnesium	NC	NC	NC	NC	1010
Manganese	1,600	10,000	1600	2,000	274
Mercury (Total)	0.18	5.7	0.18	0.73	<0.037
Molybdenum	NC	NC	2	NC	<2.5
Nickel	30	10,000	30	130	6
Potassium	NC	NC	NC	NC	<1300
Selenium	3.9	6,800	3.9	4	<2.5
Silver	2	6,800	2	8.3	0.79
Sodium	NC	NC	NC	NC	<1300
Thallium	NC	NC	5	NC	<1.3
Vanadium	NC	NC	39	NC	20.5
Zinc	109	10,000	109	2,480	30.6

Legend:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.4 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

a - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC	RCH-1-MR-1-WC	RCH-1-MR-2+3 COMP
Lab Sample ID					JB25498-6	JB25498-3	JB26656-4	JB26656-3
Sampling Date					1/2/2013	1/2/2013	1/16/2013	1/16/2013
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.0093)	ND (0.0095)
Aroclor 1221	NC	NC	NC	NC	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.021)	ND (0.020)	ND (0.018)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.011)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.019)	ND (0.017)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.012)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.011)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Legend:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-1-MR-4-WC	
Lab Sample ID					JB26458-3	
Sampling Date					1/14/2013	
Matrix					Soil	
Units					mg/kg	
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	

Legend:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

TRC Sample No.:	RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC
Date Sampled:	01/02/13	01/02/13
Lab Sample No.:	JB25498-6R	JB25498-3R
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)		
gamma-BHC (Lindane)	0.40	ND (0.000041)	ND (0.000041)
Chlordane	0.03	ND (0.0024)	ND (0.0024)
Endrin	0.02	ND (0.000064)	ND (0.000064)
Heptachlor	0.01	ND (0.000084)	ND (0.000084)
Heptachlor epoxide	0.01	ND (0.000038)	ND (0.000038)
Methoxychlor	10	ND (0.000082)	ND (0.000082)
Toxaphene	0.5	ND (0.0015)	ND (0.0015)
2,4-D	NC	ND (0.0013)	ND (0.0013)
2,4,5-TP (Silvex)	NC	ND (0.00018)	ND (0.00018)

Legend:

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

**SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES
RCH-1 TRACT WASTE CHARACTERIZATION**

PESTICIDES	Sample ID/Depth				RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC	RCH-1-MR-1-WC	RCH-1-MR-2+3 COMP	RCH-1-MR-4-WC
	Lab Sample ID				#B2468-4	#B2468-3	#B2665-4	#B2665-3	#B2465-3
	Sampling Date				1/2/2013	1/2/2013	1/16/2013	1/16/2013	1/14/2013
Matrix				Soil	Soil	Soil	Soil	Soil	
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
				Result	Result	Result	Result	Result	
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
4,4'-DD	0.0033	0.18	0.0033	14	ND (0.00023)	ND (0.00023)	ND (0.00038)	ND (0.00040)	0.0023
4,4'-DDE	0.0033	120	0.0033	17	ND (0.0012)	ND (0.0012)	ND (0.00029)	ND (0.00029)	0.0133
4,4'-DDT	0.0033	94	0.0033	136	0.0067	ND (0.00020)	ND (0.00022)	0.0012	0.0647
Aldrin	0.005	1.4	0.14	0.19	ND (0.00019)	ND (0.00019)	ND (0.00033)	ND (0.00033)	ND (0.00032)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00012)	ND (0.00012)	ND (0.00021)	ND (0.00021)	ND (0.00021)
alpha-Chlordane	0.004	47	1.3	2.8	ND (0.00015)	ND (0.00015)	ND (0.00027)	ND (0.00027)	ND (0.00026)
beta-BHC	0.036	14	0.6	0.09	ND (0.00026)	ND (0.00025)	ND (0.00045)	ND (0.00045)	ND (0.00043)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00028)	ND (0.00027)	ND (0.00050)	ND (0.00050)	ND (0.00048)
delta-BHC	0.04	1,000	0.04	0.26	ND (0.00020)	ND (0.00020)	ND (0.00035)	ND (0.00036)	ND (0.00034)
Dieldrin	0.005	2.8	0.005	0.1	ND (0.00016)	ND (0.00016)	ND (0.00028)	ND (0.00028)	ND (0.00027)
Endosulfan-I	2.4	820	NC	102	ND (0.00016)	ND (0.00015)	ND (0.00027)	ND (0.00028)	ND (0.00026)
Endosulfan-II	2.4	820	NC	102	ND (0.00025)	ND (0.00024)	ND (0.00043)	ND (0.00044)	ND (0.00041)
Endosulfan sulfate	2.4	820	NC	1,000	ND (0.00018)	ND (0.00017)	ND (0.00031)	ND (0.00031)	ND (0.00030)
Endrin	0.014	418	0.14	0.060	ND (0.00013)	ND (0.00013)	ND (0.00023)	ND (0.00024)	ND (0.00022)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00022)	ND (0.00021)	ND (0.00038)	ND (0.00038)	ND (0.00036)
Endrin ketone	NC	NC	NC	NC	ND (0.00017)	ND (0.00016)	ND (0.00029)	ND (0.00029)	ND (0.00028)
gamma-BHC (lindane)	0.1	23	6	0.1	ND (0.00020)	ND (0.00019)	ND (0.00035)	ND (0.00036)	ND (0.00034)
Heptachlor	0.042	29	0.14	0.38	ND (0.00020)	ND (0.00019)	ND (0.00035)	ND (0.00035)	ND (0.00034)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00015)	ND (0.00015)	ND (0.00027)	ND (0.00027)	ND (0.00026)
Methoxychlor	NC	NC	1.2	900	ND (0.00040)	ND (0.00039)	ND (0.00070)	ND (0.00071)	ND (0.00069)
Toxaphene	NC	NC	NC	NC	ND (0.00052)	ND (0.00050)	ND (0.00090)	ND (0.00092)	ND (0.00087)
2,4-D	NC	NC	NC	0.5	ND (0.00055)	ND (0.00052)	NC (0.0061)	ND (0.00056)	ND (0.00055)
2,4,5-TP (Silvex)	3.8	1,090	NC	3.8	ND (0.00067)	ND (0.00065)	ND (0.00120)	ND (0.00068)	ND (0.00067)
2,4,6-T	NC	NC	NC	1.9	ND (0.0017)	ND (0.0016)	ND (0.0018)	ND (0.0017)	ND (0.0017)
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.0013)
Dicamba	NC	NC	NC	NC	ND (0.00078)	ND (0.00074)	ND (0.00085)	ND (0.00079)	ND (0.00078)
Dichloroprop	NC	NC	NC	NC	ND (0.0045)	ND (0.0043)	ND (0.0049)	ND (0.0049)	ND (0.0045)
Dinoseb	NC	NC	NC	NC	ND (0.0036)	ND (0.0034)	ND (0.0038)	ND (0.0038)	ND (0.0036)
MCPA	NC	NC	NC	NC	ND (0.60)	ND (0.57)	ND (0.68)	ND (0.61)	ND (0.60)
MCPP	NC	NC	NC	NC	ND (0.31)	ND (0.29)	ND (0.34)	ND (0.31)	ND (0.31)
Perchlorophenol	0.8	55	0.8	0.8	ND (0.0013)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.0013)
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.013)

Legend:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00023) - Not Detected (Method Detection Limit)

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

TRC Sample No.:	RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC
Date Sampled:	01/02/13	01/02/13
Lab Sample No.:	JB25498-6R	JB25498-3R
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)		
2-Methylphenol	200	ND (0.010)	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)	ND (0.0093)
Pentachlorophenol	100	ND (0.014)	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)	ND (0.0051)
Hexachloroethane	3	ND (0.0055)	ND (0.0055)
Nitrobenzene	2	ND (0.0042)	ND (0.0042)
Pyridine	5	ND (0.0032)	ND (0.0032)

Legend:

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC	RCH-1-MR-1-WC	RCH-1-MR-2+3 COMP
Lab Sample ID					JB25498-6	JB25498-3	JB26656-4	JB26656-3
Sampling Date					1/2/2013	1/2/2013	1/16/2013	1/16/2013
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
					Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.013)
1,2-Diphenylhydrazine	NC	NC	NC	NC	ND (0.016)	ND (0.014)	ND (0.016)	ND (0.017)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.042)	ND (0.036)	ND (0.041)	ND (0.042)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.047)	ND (0.040)	ND (0.046)	ND (0.048)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.038)	ND (0.033)	ND (0.037)	ND (0.039)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.065)	ND (0.056)	ND (0.064)	ND (0.066)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.068)	ND (0.058)	ND (0.067)	ND (0.069)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.049)	ND (0.042)	ND (0.048)	ND (0.050)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.015)	ND (0.017)	ND (0.018)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.015)	ND (0.013)	ND (0.015)	ND (0.016)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.013)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.041)	ND (0.035)	ND (0.040)	ND (0.041)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.023)	ND (0.019)	ND (0.022)	ND (0.023)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.046)	ND (0.019)	ND (0.045)	ND (0.047)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.018)	ND (0.015)	ND (0.017)	ND (0.018)
2-Nitrophenol	NC	NC	7	0.3	ND (0.043)	ND (0.037)	ND (0.042)	ND (0.043)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.051)	ND (0.044)	ND (0.050)	ND (0.052)
3,3-Dichlorobenzidine	NC	NC	NC	NC	ND (0.010)	ND (0.008)	ND (0.010)	ND (0.010)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.016)	ND (0.014)	ND (0.016)	ND (0.016)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.049)	ND (0.042)	ND (0.048)	ND (0.050)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.015)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.040)	ND (0.035)	ND (0.040)	ND (0.041)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.014)	ND (0.015)	ND (0.016)
4-Nitrophenol	NC	NC	7	0.3	ND (0.068)	ND (0.059)	ND (0.067)	ND (0.069)
Acenaphthene	20	1,000	20	98	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.012)
Acenaphthylene	100	1,000	NC	107	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)
Acetophenone	NC	NC	NC	NC	ND (0.0071)	ND (0.0061)	ND (0.0070)	ND (0.0072)
Anthracene	100	1,000	NC	1,000	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)
Atrazine	NC	NC	NC	NC	ND (0.0080)	ND (0.0068)	ND (0.0078)	ND (0.0081)
Benzaldehyde	NC	NC	NC	NC	ND (0.0093)	ND (0.0080)	ND (0.0091)	ND (0.0094)
Benzidine	NC	NC	NC	NC	ND (0.15)	ND (0.13)	ND (0.15)	ND (0.15)
Benzo(a)anthracene	1	11	NC	1	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)
Benzo(a)pyrene	1	1	2.6	22	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)
Benzo(b)fluoranthene	1	11	NC	2	ND (0.014)	ND (0.012)	ND (0.013)	ND (0.014)
Benzo(g,h,i)perylene	100	1,000	NC	1,000	ND (0.015)	ND (0.013)	ND (0.015)	ND (0.015)
Benzo(k)fluoranthene	1	110	NC	2	ND (0.015)	ND (0.013)	ND (0.015)	ND (0.015)
Benzyl Alcohol	NC	NC	NC	NC	ND (0.017)	ND (0.014)	ND (0.016)	ND (0.017)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.016)	ND (0.014)	ND (0.016)	ND (0.017)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)
bis(2-Chloroisopropyl)ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.0696	ND (0.031)	ND (0.035)	ND (0.036)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.023)	ND (0.020)	ND (0.023)	ND (0.024)
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.013)
Carbazole	NC	NC	NC	NC	ND (0.019)	ND (0.016)	ND (0.018)	ND (0.019)
Chrysene	1	110	NC	1	ND (0.014)	ND (0.012)	ND (0.013)	ND (0.014)
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)
Dibenzofuran	7	1,000	NC	210	ND (0.012)	ND (0.010)	ND (0.012)	ND (0.012)
Diethyl phthalate	NC	NC	100	7	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)
Dimethyl phthalate	NC	NC	200	27	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0090)	ND (0.0077)	ND (0.0088)	ND (0.0091)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.020)	ND (0.017)	ND (0.019)	ND (0.020)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0047)	ND (0.0040)	ND (0.0046)	ND (0.0048)
Fluoranthene	100	1,000	NC	1,000	ND (0.018)	ND (0.015)	ND (0.017)	ND (0.018)
Fluorene	30	1,000	30	386	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)
Hexachlorobenzene	0	12	NC	3	ND (0.013)	ND (0.011)	ND (0.013)	ND (0.013)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.0097)	ND (0.011)	ND (0.011)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.041)	ND (0.035)	ND (0.040)	ND (0.042)
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.0097)	ND (0.011)	ND (0.011)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	ND (0.014)	ND (0.012)	ND (0.014)	ND (0.014)
Isophorone	NC	NC	NC	4	ND (0.011)	ND (0.0093)	ND (0.011)	ND (0.011)
Naphthalene	12	1,000	NC	12	ND (0.011)	ND (0.0095)	ND (0.011)	ND (0.011)
Nitrobenzene	NC	140	40	0.17	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.012)
n-Nitrosodimethylamine	NC	NC	NC	NC	ND (0.036)	ND (0.031)	ND (0.035)	ND (0.036)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0099)	ND (0.0085)	ND (0.0097)	ND (0.010)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.024)	ND (0.021)	ND (0.024)	ND (0.024)
Pentachlorophenol	1	55	0.8	1	ND (0.0013)	ND (0.009)	ND (0.008)	ND (0.007)
Phenanthrene	100	1,000	NC	1,000	ND (0.018)	ND (0.016)	ND (0.018)	ND (0.019)
Phenol	0.33	1,000	30	0.33	ND (0.042)	ND (0.036)	ND (0.042)	ND (0.043)
Pyrene	100	1,000	NC	1,000	ND (0.016)	ND (0.013)	ND (0.015)	ND (0.016)
Total SVOCs	NC	NC	NC	NC	0.0696	ND	ND	ND

Legend:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-1-MR-4-WC
Lab Sample ID					JB26458-3
Sampling Date					1/14/2013
Matrix					Soil
Units					mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)
1,2-Diphenylhydrazine	NC	NC	NC	NC	ND (0.015)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.039)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.044)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.036)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.061)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.064)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.046)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.017)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.012)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.038)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.021)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.043)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.017)
2-Nitrophenol	NC	NC	7	0.3	ND (0.040)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.048)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0097)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.015)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.046)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.014)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.038)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)
4-Methylphenol	NC	NC	NC	NC	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.015)
4-Nitrophenol	NC	NC	7	0.3	ND (0.064)
Acenaphthene	20	1,000	20	98	ND (0.011)
Acenaphthylene	100	1,000	NC	107	ND (0.012)
Acetophenone	NC	NC	NC	NC	ND (0.0067)
Anthracene	100	1,000	NC	1,000	ND (0.013)
Atrazine	NC	NC	NC	NC	ND (0.0075)
Benzaldehyde	NC	NC	NC	NC	ND (0.0087)
Benzidine	NC	NC	NC	NC	ND (0.15)
Benzo(a)anthracene	1	11	NC	1	ND (0.012)
Benzo(a)pyrene	1	1	2.6	22	ND (0.012)
Benzo(b)fluoranthene	1	11	NC	2	ND (0.013)
Benzo(g,h,i)perylene	100	1,000	NC	1,000	ND (0.014)
Benzo(k)fluoranthene	1	110	NC	2	ND (0.014)
Benzyl Alcohol	NC	NC	NC	NC	ND (0.016)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)
bis(2-Chloroisopropyl)ether	NC	NC	NC	NC	ND (0.011)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.034)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.022)
Caprolactam	NC	NC	NC	NC	ND (0.012)
Carbazole	NC	NC	NC	NC	ND (0.018)
Chrysene	1	110	NC	1	ND (0.013)
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.013)
Dibenzofuran	7	1,000	NC	210	ND (0.011)
Diethyl phthalate	NC	NC	100	7	ND (0.013)
Dimethyl phthalate	NC	NC	200	27	ND (0.013)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0084)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.019)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0044)
Fluoranthene	100	1,000	NC	1,000	ND (0.017)
Fluorene	30	1,000	30	386	ND (0.012)
Hexachlorobenzene	0	12	NC	3	ND (0.012)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.039)
Hexachloroethane	NC	NC	NC	NC	ND (0.011)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	ND (0.013)
Isophorone	NC	NC	NC	4	ND (0.010)
Naphthalene	12	1,000	NC	12	ND (0.010)
Nitrobenzene	NC	140	40	0.17	ND (0.011)
n-Nitrosodimethylamine	NC	NC	NC	NC	ND (0.034)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0093)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.023)
Pentachlorophenol	1	55	0.8	1	ND (0.065)
Phenanthrene	100	1,000	NC	1,000	ND (0.017)
Phenol	0.33	1,000	30	0.33	ND (0.040)
Pyrene	100	1,000	NC	1,000	ND (0.015)
Total SVOCs	NC	NC	NC	NC	ND

Legend:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY N.J.-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth	RCH-1-ENV-1-WC	RCH-1-ENV-1/I	RCH-1-ENV-16	RCH-1-ENV-2W-WC	RCH-1-ENV-2W/I
Lab Sample ID	J825498-4	J825498-4	J825498-5	J825498-3	J825498-1
Sampling Date	1/2/2013	1/2/2013	1/2/2013	1/2/2013	1/2/2013
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Result	Result	Result	Result	Result
Equivalent Carbon Range					
TPHC	30.3	26.4	20.8	34.3	ND (2.1)

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY N.J.-N.Y. EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth	RCH-1-ENV-2W/7	RCH-1-MR-1-WG	RCH-1-MR-1B	RCH-1-MR-1/7	RCH-1-MR-2-3 COMP
Lab Sample ID	JB25006-2	JB25006-4	JB25006-1	JB25006-2	JB25006-3
Sampling Date	1/2/2013	1/16/2013	1/16/2013	1/16/2013	1/16/2013
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Result	Result	Result	Result	Result
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	
TPHC	NC	NC	NC	NC	18.2
	29.4	ND (2.1)	ND (2.4)	ND (2.1)	

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-1 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth	RCH-1-MR-4-WC	RCH-1-MR-4-G	RCH-1-MR-4-B
Lab Sample ID	8524508-3	8524508-1	8524508-2
Sampling Date	11/6/2013	11/6/2013	11/6/2013
Matrix	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources
TPHC	NC	NC	NC
	Result	Result	Result
	ND (3.5)	ND (3.3)	ND (3.4)

Legend:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

TRC Sample No.:	RCH-1-ENV-1-WC	RCH-1-ENV-2W-WC
Date Sampled:	01/02/13	01/02/13
Lab Sample No.:	JB25498-6R	JB25498-3R
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

VOCs	EPA TCLP Regulatory Level (mg/L)		
Benzene	0.5	ND (0.0012)	ND (0.0012)
2-Butanone (MEK)	200.0	ND (0.012)	ND (0.012)
Carbon tetrachloride	0.5	ND (0.0011)	ND (0.0011)
Chlorobenzene	100.0	ND (0.0011)	ND (0.0011)
Chloroform	6.0	ND (0.0010)	ND (0.0010)
1,4-Dichlorobenzene	7.5	ND (0.0015)	ND (0.0015)
1,2-Dichloroethane	0.5	ND (0.0013)	ND (0.0013)
1,1-Dichloroethene	0.7	ND (0.00096)	ND (0.00096)
Tetrachloroethene	0.7	ND (0.0014)	ND (0.0014)
Trichloroethene	0.5	ND (0.0011)	ND (0.0011)
Vinyl chloride	0.2	ND (0.0010)	ND (0.0010)

Legend:

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-1 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID	RCH-1-ENV-1-WC		RCH-1-ENV-2W-WC		RCH-1-MR-1-WC		RCH-1-MR-2+3 COMP	
	JB25498-6		JB25498-3		JB26656-4		JB26656-3	
Sampling Date	1/2/2013		1/2/2013		1/16/2013		1/16/2013	
Matrix	Soil		Soil		Soil		Soil	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00012)	ND (0.00011)	ND (0.00012)	ND (0.00011)
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00014)	ND (0.00015)	ND (0.00014)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00015)	ND (0.00013)	ND (0.00015)	ND (0.00014)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00018)	ND (0.00019)	ND (0.00019)
1,1-Dichloroethane	0.27	480	NC	0.27	0.003	ND (0.00014)	ND (0.00015)	ND (0.00015)
1,1-Dichloroethane	0.33	1,000	NC	0.33	0.00085	ND (0.00026)	ND (0.00028)	ND (0.00028)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00019)	ND (0.00017)	ND (0.00018)	ND (0.00018)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00016)	ND (0.00014)	ND (0.00015)	ND (0.00015)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0010)	ND (0.00090)	ND (0.00098)	ND (0.00095)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00014)	ND (0.00013)	ND (0.00014)	ND (0.00014)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00022)	ND (0.00019)	ND (0.00021)	ND (0.00020)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00015)	ND (0.00014)	ND (0.00015)	ND (0.00014)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00018)	ND (0.00016)	ND (0.00017)	ND (0.00017)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00021)	ND (0.00019)	ND (0.00021)	ND (0.00020)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)	ND (0.00018)	ND (0.00019)	ND (0.00019)
1,4-Dioxane	0.1	250	1	0.1	ND (0.068)	ND (0.060)	ND (0.066)	ND (0.064)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0027)	ND (0.0024)	ND (0.0026)	ND (0.0026)
2-Hexanone	NC	NC	NC	NC	ND (0.00071)	ND (0.00063)	ND (0.00069)	ND (0.00067)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00086)	ND (0.00076)	ND (0.00083)	ND (0.00081)
Acetone	0.05	1,000	2.2	0.05	0.0158	0.0104	ND (0.0019)	0.0129
Acrolein	NC	NC	NC	NC	ND (0.0032)	ND (0.0029)	ND (0.0031)	ND (0.0030)
Acrylonitrile	NC	NC	NC	NC	ND (0.0017)	ND (0.0015)	ND (0.0017)	ND (0.0016)
Benzene	0.06	89	70	0.06	ND (0.00014)	ND (0.00012)	ND (0.00013)	ND (0.00013)
Bromochloromethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00027)	ND (0.00029)	ND (0.00028)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00012)	ND (0.00011)	ND (0.00012)	ND (0.00011)
Bromoform	NC	NC	NC	NC	ND (0.00017)	ND (0.00015)	ND (0.00017)	ND (0.00016)
Bromomethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00028)	ND (0.00030)	ND (0.00029)
Carbon disulfide	NC	NC	NC	2.7	0.0029	ND (0.00012)	ND (0.00013)	ND (0.00013)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00015)	ND (0.00013)	ND (0.00015)	ND (0.00014)
Chlorobenzene	1	1,000	40	1	ND (0.00012)	ND (0.00011)	ND (0.00012)	ND (0.00012)
Chloroethane	NC	NC	NC	1.9	ND (0.00026)	ND (0.00023)	ND (0.00025)	ND (0.00024)
Chloroform	0.37	700	12	0.37	ND (0.000094)	ND (0.000083)	ND (0.000091)	ND (0.000089)
Chloromethane	NC	NC	NC	NC	ND (0.00021)	ND (0.00019)	ND (0.00020)	ND (0.00020)
cis-1,2-Dichloroethane	0.25	1,000	NC	0.25	ND (0.00021)	ND (0.00018)	ND (0.00020)	ND (0.00020)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00016)	ND (0.00014)	ND (0.00015)	ND (0.00015)
Cyclohexane	NC	NC	NC	NC	ND (0.00014)	ND (0.00012)	ND (0.00014)	ND (0.00013)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00017)	ND (0.00018)	ND (0.00018)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00023)	ND (0.00025)	ND (0.00024)
Ethylbenzene	1	780	NC	1	ND (0.00030)	ND (0.00027)	ND (0.00029)	ND (0.00028)
Freon 113	NC	NC	NC	6	ND (0.00049)	ND (0.00043)	ND (0.00047)	ND (0.00046)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00085)	ND (0.00075)	ND (0.00082)	ND (0.00080)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00018)	ND (0.00019)	ND (0.00019)
Methyl acetate	NC	NC	NC	NC	ND (0.00030)	ND (0.00026)	ND (0.00029)	ND (0.00028)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00019)	ND (0.00017)	ND (0.00019)	ND (0.00018)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0014)	0.0061	0.0062	0.0063
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00027)	ND (0.00024)	ND (0.00026)	ND (0.00025)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00016)	ND (0.00014)	ND (0.00015)	ND (0.00015)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00010)	ND (0.000092)	ND (0.00010)	ND (0.000098)
Tert Butyl Alcohol	NC	NC	NC	NC	ND (0.00050)	ND (0.0044)	ND (0.0048)	ND (0.0047)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethane	1.3	300	2	1.3	ND (0.00020)	NA	ND (0.00019)	ND (0.00018)
Toluene	0.7	1,000	36	0.7	ND (0.00012)	0.00033	ND (0.00012)	0.00023 J
trans-1,2-Dichloroethane	0.19	1,000	NC	0.19	ND (0.00027)	ND (0.00024)	ND (0.00026)	ND (0.00026)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00016)	ND (0.00017)	ND (0.00017)
Trichloroethane	0.47	400	2	0.47	ND (0.00020)	ND (0.00018)	ND (0.00019)	ND (0.00019)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00030)	ND (0.00033)	ND (0.00032)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00016)	ND (0.00015)	ND (0.00016)	ND (0.00015)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00016)	ND (0.00014)	ND (0.00015)	ND (0.00015)
Total VOCs	NC	NC	NC	NC	0.02255	0.017	0.0062	0.01943

Legend:

mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-1 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-1-MR-4-WC
Lab Sample ID					JB26458-3
Sampling Date					1/14/2013
Matrix					Soil
Units					mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00012)
1,1,1,2-Tetrachloroethane	NC	NC	NC	NC	ND (0.00015)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00015)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00020)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00016)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00029)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00019)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00016)
1,2,4-Trimethylbenzene	4	380	NC	4	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0010)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00014)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00021)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00015)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00018)
1,3,5-Trimethylbenzene	8	380	NC	8	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00021)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.068)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0027)
2-Hexanone	NC	NC	NC	NC	ND (0.00071)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00085)
Acetone	0.05	1,000	2.2	0.05	ND (0.0019)
Acrolein	NC	NC	NC	NC	ND (0.0032)
Acrylonitrile	NC	NC	NC	NC	ND (0.0017)
Benzene	0.06	89	70	0.06	ND (0.00014)
Bromochloromethane	NC	NC	NC	NC	ND (0.00030)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00012)
Bromoform	NC	NC	NC	NC	ND (0.00017)
Bromomethane	NC	NC	NC	NC	ND (0.00031)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00013)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00015)
Chlorobenzene	1	1,000	40	1	ND (0.00012)
Chloroethane	NC	NC	NC	1.9	ND (0.00026)
Chloroform	0.37	700	12	0.37	ND (0.000094)
Chloromethane	NC	NC	NC	NC	ND (0.00021)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00021)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00016)
Cyclohexane	NC	NC	NC	NC	ND (0.00014)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00026)
Ethylbenzene	1	780	NC	1	ND (0.00030)
Freon 113	NC	NC	NC	6	ND (0.00049)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00085)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)
Methyl acetate	NC	NC	NC	NC	ND (0.0030)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00019)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0014)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00027)
n-Butylbenzene	12	1,000	NC	12	NA
n-Propylbenzene	3.9	1,000	NC	4	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00016)
p-Isopropyltoluene	NC	NC	NC	NC	NA
sec-Butylbenzene	11	1,000	NC	11	NA
Styrene	NC	NC	300	NC	ND (0.00010)
Tert Butyl Alcohol	NC	NC	NC	NC	ND (0.0050)
tert-Butylbenzene	5.9	1,000	NC	6	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00020)
Toluene	0.7	1,000	36	0.7	ND (0.00012)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00027)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)
Trichloroethene	0.47	400	2	0.47	ND (0.00020)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00034)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00016)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00016)
Total VOCs	NC	NC	NC	NC	ND

Legend:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

NC - No Criterion

NA - Not Analyzed

ND (0.00012) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approx

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

	Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
	Lab Sample ID	JA83045-5	JA83201-1	JA83045-3	JA83045-4
	Sampling Date	8/8/2011	8/8/2011	8/8/2011	8/8/2011
	Matrix	Soil	Soil	Soil	Soil
	Units	mg/kg	mg/kg	mg/kg	mg/kg
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Redox Potential Vs H2	NC	NC	NC	NC	351
Solids, Percent	NC	NC	NC	NC	41
pH	NC	NC	NC	NC	6.39
					319
					83.4
					65.3
					81.1
					5.73
					5.72

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

		Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6		
		Lab Sample ID	JA83045-1	JA83045-2		
		Sampling Date	8/8/2011	8/8/2011		
		Matrix	Soil	Soil		
		Units	mg/kg	mg/kg		
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Redox Potential Vs H2	NC	NC	NC	NC	296	255
Solids, Percent	NC	NC	NC	NC	27.3	49.4
pH	NC	NC	NC	NC	7.87	7.84

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS

					Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
					Lab Sample ID	JA83045-5	JA83201-1/R	JA83045-3	JA83045-4
					Sampling Date	8/8/2011	8/9/2011	8/8/2011	8/8/2011
					Matrix	Soil	Soil	Soil	Soil
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10,000	NC	7740	5160	2240	2190	
Antimony	NC	NC	12	NC	<4.9	<2.4	<3.1	<2.4	
Arsenic	13	16	13	16	<4.9	5.4	<3.1	<2.4	
Barium	350	10,000	433	820	<49	<24	<31	<24	
Beryllium	7.2	2,700	10	47	<0.49	0.68	<0.31	<0.24	
Cadmium	2.5	60	4	7.5	<1.2	<0.59	<0.77	<0.61	
Calcium	NC	NC	10,000	NC	2870	<590	896	<610	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	11.7	17.7	5.6	5.7	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.98	1.1(<0.48)	<0.61	<0.49	
Cobalt	NC	NC	20	NC	<12	<5.9	<7.7	<6.1	
Copper	50	10,000	50	1,720	17.1	3.7	<3.8	<3.1	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	11000	16000	3860	5220	
Lead	63	3,900	63	450	17.9	4	3.9	2.4	
Magnesium	NC	NC	NC	NC	<1200	684	<770	<610	
Manganese	1,600	10,000	1,600	2,000	107	79	25.3	16.8	
Mercury (Total)	0.18	5.7	0.18	0.73	<0.075	<0.038	<0.046	<0.041	
Nickel	30	10,000	30	130	10.6	<4.7	<6.1	<4.9	
Potassium	NC	NC	NC	NC	<2400	<1200	<1500	<1200	
Selenium	3.9	6,800	3.9	4	<4.9	<2.4	<3.1	<2.4	
Silver	2	6,800	2	8.3	<1.2	<0.59	<0.77	<0.61	
Sodium	NC	NC	NC	NC	<2400	<1200	<1500	<1200	
Thallium	NC	NC	5	NC	<2.4	<1.2	<1.5	<1.2	
Vanadium	NC	NC	39	NC	14.5	29.3	9	8.5	
Zinc	109	10,000	109	2,480	67.5	16.6	11.1	11.3	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

< - Less than the Method Detection Limit

SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS

					Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
					Lab Sample ID	JA83045-1	JA83045-2
					Sampling Date	8/8/2011	8/8/2011
					Matrix	Soil	Soil
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	
Aluminum	NC	NC	10,000	NC	18000	21300	
Antimony	NC	NC	12	NC	<7.3	<3.9	
Arsenic	13	16	13	16	27.6	10	
Barium	350	10,000	433	820	101	53.7	
Beryllium	7.2	2,700	10	47	<0.73	0.66	
Cadmium	2.5	60	4	7.5	3.2	<0.97	
Calcium	NC	NC	10,000	NC	4070	2200	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	64.6	40.6	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<1.5	<0.81	
Cobalt	NC	NC	20	NC	<18	12.8	
Copper	50	10,000	50	1,720	253	13.7	
Cyanide (Total)	27	10,000	NC	40	NA	NA	
Iron	NC	NC	NC	NC	21700	34700	
Lead	63	3,900	63	450	196	15.7	
Magnesium	NC	NC	NC	NC	8040	8470	
Manganese	1,600	10,000	1,600	2,000	180	414	
Mercury (Total)	0.18	5.7	0.18	0.73	2.5	<0.065	
Nickel	30	10,000	30	130	59.5	31.7	
Potassium	NC	NC	NC	NC	4650	5160	
Selenium	3.9	6,800	3.9	4	<7.3	<3.9	
Silver	2	6,800	2	8.3	<1.8	<0.97	
Sodium	NC	NC	NC	NC	19200	8790	
Thallium	NC	NC	5	NC	<3.6	<1.9	
Vanadium	NC	NC	39	NC	47.4	46	
Zinc	109	10,000	109	2,480	277	88.9	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

< - Less than the Method Detection Limit

SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
					Lab Sample ID	JA83045-5	JA83201-1	JA83045-3	JA83045-4
					Sampling Date	8/8/2011	8/9/2011	8/8/2011	8/8/2011
					Matrix	Soil	Soil	Soil	Soil
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.019)	ND (0.0090)	ND (0.012)	ND (0.0094)	
Aroclor 1221	NC	NC	NC	NC	ND (0.043)	ND (0.021)	ND (0.027)	ND (0.022)	
Aroclor 1232	NC	NC	NC	NC	ND (0.036)	ND (0.017)	ND (0.023)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.023)	ND (0.011)	ND (0.014)	ND (0.012)	
Aroclor 1248	NC	NC	NC	NC	ND (0.022)	ND (0.010)	ND (0.014)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.034)	ND (0.016)	ND (0.021)	ND (0.017)	
Aroclor 1260	NC	NC	NC	NC	ND (0.024)	ND (0.011)	ND (0.015)	ND (0.012)	
Aroclor 1262	NC	NC	NC	NC	ND (0.021)	ND (0.010)	ND (0.013)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.023)	ND (0.011)	ND (0.014)	ND (0.012)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/ka - milligrams per kilogram
 NC - No Criterion
 ND () - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID							RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
Lab Sample ID							JA83045-1	JA83045-2
Sampling Date							8/8/2011	8/8/2011
Matrix							Soil	Soil
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result		
Aroclor 1016	NC	NC	NC	NC	ND (0.028)	ND (0.015)		
Aroclor 1221	NC	NC	NC	NC	ND (0.065)	ND (0.036)		
Aroclor 1232	NC	NC	NC	NC	ND (0.055)	ND (0.030)		
Aroclor 1242	NC	NC	NC	NC	ND (0.034)	ND (0.019)		
Aroclor 1248	NC	NC	NC	NC	ND (0.033)	ND (0.018)		
Aroclor 1254	NC	NC	NC	NC	ND (0.050)	ND (0.028)		
Aroclor 1260	NC	NC	NC	NC	ND (0.035)	ND (0.020)		
Aroclor 1262	NC	NC	NC	NC	ND (0.032)	ND (0.018)		
Aroclor 1268	NC	NC	NC	NC	ND (0.034)	ND (0.019)		
Total PCBs	0.1	25	1	3.2	ND	ND		

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND () - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
					Lab Sample ID	JA83045-5	JA83201-1	JA83045-3	JA83045-4
					Sampling Date	8/8/2011	8/9/2011	8/8/2011	8/8/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0044	ND (0.00036)	0.003	ND (0.00037)	
4,4'-DDE	0.0033	120	0.0033	17	0.0025	ND (0.00042)	ND (0.00053)	ND (0.00043)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.0011)	ND (0.00052)	ND (0.00066)	ND (0.00053)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00072)	ND (0.00035)	ND (0.00045)	ND (0.00036)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.0011)	ND (0.00053)	ND (0.00067)	ND (0.00054)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00093)	ND (0.00046)	ND (0.00059)	ND (0.00047)	
beta-BHC	0.036	14	0.6	0.09	ND (0.0010)	ND (0.00050)	ND (0.00063)	ND (0.00051)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00073)	ND (0.00036)	ND (0.00046)	ND (0.00037)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00084)	ND (0.00041)	ND (0.00053)	ND (0.00042)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.0011)	ND (0.00055)	ND (0.00070)	ND (0.00056)	
Endosulfan-I	2.4	920	NC	102	ND (0.00069)	ND (0.00034)	ND (0.00044)	ND (0.00035)	
Endosulfan-II	2.4	920	NC	102	ND (0.00095)	ND (0.00046)	ND (0.00059)	ND (0.00048)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.0013)	ND (0.00064)	ND (0.00082)	ND (0.00066)	
Endrin	0.014	410	0.014	0.060	ND (0.00073)	ND (0.00036)	ND (0.00046)	ND (0.00037)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.0014)	ND (0.00067)	ND (0.00085)	ND (0.00069)	
Endrin ketone	NC	NC	NC	NC	ND (0.00093)	ND (0.00046)	ND (0.00059)	ND (0.00047)	
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00065)	ND (0.00032)	ND (0.00041)	ND (0.00033)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00088)	ND (0.00043)	ND (0.00055)	ND (0.00044)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00071)	ND (0.00035)	ND (0.00044)	ND (0.00036)	
Methoxychlor	NC	NC	1.2	900	ND (0.0010)	ND (0.00050)	ND (0.00064)	ND (0.00051)	
Toxaphene	NC	NC	NC	NC	ND (0.018)	ND (0.0089)	ND (0.011)	ND (0.0091)	
2,4-D	NC	NC	NC	0.5	ND (0.010)	ND (0.0050)	ND (0.0063)	ND (0.0051)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.0012)	ND (0.00060)	ND (0.00077)	ND (0.00062)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0031)	ND (0.0015)	ND (0.0019)	ND (0.0016)	
Dalapon	NC	NC	NC	NC	ND (0.0024)	ND (0.0012)	ND (0.0015)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.0014)	ND (0.00070)	ND (0.00089)	ND (0.00072)	
Dichloroprop	NC	NC	NC	NC	ND (0.0082)	ND (0.0040)	ND (0.0052)	ND (0.0042)	
Dinoseb	NC	NC	NC	NC	ND (0.0066)	ND (0.0032)	ND (0.0041)	ND (0.0033)	
MCPA	NC	NC	NC	NC	ND (1.1)	ND (0.54)	ND (0.69)	ND (0.56)	
MCPP	NC	NC	NC	NC	ND (0.57)	ND (0.28)	ND (0.36)	ND (0.29)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0024)	ND (0.0012)	ND (0.0015)	ND (0.0012)	
2,4-DB	NC	NC	NC	NC	ND (0.024)	ND (0.012)	ND (0.015)	ND (0.012)	

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND () - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
					Lab Sample ID	JA83045-1	JA83045-2
					Sampling Date	8/8/2011	8/8/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.0077		0.0015
4,4'-DDE	0.0033	120	0.0033	17	0.0037	a	ND (0.00070)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.0016)		ND (0.00087)
Aldrin	0.005	1.4	0.14	0.19	ND (0.0011)		ND (0.00059)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.0016)		ND (0.00089)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.0014)		ND (0.00078)
beta-BHC	0.036	14	0.6	0.09	ND (0.0015)		ND (0.00084)
Chlordane	NC	NC	NC	NC	NA		NA
gamma-Chlordane	NC	NC	NC	14	ND (0.0011)		ND (0.00061)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.0013)		ND (0.00070)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.0017)		ND (0.00092)
Endosulfan-I	2.4	920	NC	102	ND (0.0010)		ND (0.00058)
Endosulfan-II	2.4	920	NC	102	ND (0.0014)		ND (0.00078)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.0020)		ND (0.0011)
Endrin	0.014	410	0.014	0.060	ND (0.0011)		ND (0.00061)
Endrin aldehyde	NC	NC	NC	NC	ND (0.0020)		ND (0.0011)
Endrin ketone	NC	NC	NC	NC	ND (0.0014)		ND (0.00077)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00098)		ND (0.00054)
Heptachlor	0.042	29	0.14	0.38	ND (0.0013)		ND (0.00073)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.0011)		ND (0.00059)
Methoxychlor	NC	NC	1.2	900	ND (0.0015)		ND (0.00084)
Toxaphene	NC	NC	NC	NC	ND (0.0027)		ND (0.015)
2,4-D	NC	NC	NC	0.5	ND (0.0015)		ND (0.00084)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.0018)		ND (0.0010)
2,4,5-T	NC	NC	NC	1.9	ND (0.0046)		ND (0.0025)
Dalapon	NC	NC	NC	NC	ND (0.0036)		ND (0.0020)
Dicamba	NC	NC	NC	NC	ND (0.0021)		ND (0.0012)
Dichloroprop	NC	NC	NC	NC	ND (0.012)		ND (0.0068)
Dinoseb	NC	NC	NC	NC	ND (0.0098)		ND (0.0054)
MCPA	NC	NC	NC	NC	ND (1.7)		ND (0.91)
MCPP	NC	NC	NC	NC	ND (0.85)		ND (0.47)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0035)		ND (0.0020)
2,4-DB	NC	NC	NC	NC	ND (0.036)		ND (0.020)

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND () - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
					Lab Sample ID	JA83045-5	JA83201-1	JA83045-3	JA83045-4
					Sampling Date	8/8/2011	8/9/2011	8/8/2011	8/8/2011
Matrix					Soil	Soil	Soil	Soil	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.021)	ND (0.011)	ND (0.013)	ND (0.011)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.071)	ND (0.035)	ND (0.045)	ND (0.036)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.080)	ND (0.040)	ND (0.051)	ND (0.041)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.065)	ND (0.032)	ND (0.041)	ND (0.033)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.11)	ND (0.055)	ND (0.070)	ND (0.057)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.12)	ND (0.058)	ND (0.074)	ND (0.059)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.084)	ND (0.042)	ND (0.053)	ND (0.043)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.030)	ND (0.015)	ND (0.019)	ND (0.015)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.026)	ND (0.013)	ND (0.017)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.021)	ND (0.011)	ND (0.014)	ND (0.011)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.070)	ND (0.035)	ND (0.044)	ND (0.035)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.038)	ND (0.019)	ND (0.024)	ND (0.020)	
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.079)	ND (0.039)	ND (0.050)	ND (0.040)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.030)	ND (0.015)	ND (0.019)	ND (0.015)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.073)	ND (0.036)	ND (0.046)	ND (0.037)	
3&4-Methylphenol	NC	NC	NC	NC	ND (0.088)	ND (0.044)	ND (0.056)	ND (0.045)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.018)	ND (0.0087)	ND (0.011)	ND (0.0089)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.028)	ND (0.014)	ND (0.018)	ND (0.014)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.084)	ND (0.042)	ND (0.053)	ND (0.043)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.025)	ND (0.012)	ND (0.016)	ND (0.013)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.069)	ND (0.034)	ND (0.044)	ND (0.035)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.022)	ND (0.011)	ND (0.014)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.021)	ND (0.010)	ND (0.013)	ND (0.011)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.027)	ND (0.013)	ND (0.017)	ND (0.014)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.12)	ND (0.058)	ND (0.074)	ND (0.059)	
Acenaphthene	20	1,000	20	98	ND (0.020)	ND (0.0099)	ND (0.013)	ND (0.010)	
Acenaphthylene	100	1,000	NC	107	ND (0.022)	ND (0.011)	ND (0.014)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.012)	ND (0.0060)	ND (0.0077)	ND (0.0062)	
Anthracene	100	1,000	NC	1,000	ND (0.024)	ND (0.012)	ND (0.015)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.014)	ND (0.0067)	ND (0.0086)	ND (0.0069)	
Benzaldehyde	NC	NC	NC	NC	ND (0.016)	ND (0.0079)	ND (0.010)	ND (0.0081)	
Benzo(a)anthracene	1	11	NC	1	ND (0.022)	ND (0.011)	ND (0.014)	ND (0.011)	
Benzo(a)pyrene	1	1	2.6	22	ND (0.021)	ND (0.010)	ND (0.013)	ND (0.011)	
Benzo(b)fluoranthene	1	11	NC	2	ND (0.023)	ND (0.011)	ND (0.015)	ND (0.012)	
Benzo(g,h,i)perylene	100	1,000	NC	1,000	ND (0.026)	ND (0.013)	ND (0.016)	ND (0.013)	
Benzo(k)fluoranthene	1	110	NC	2	ND (0.026)	ND (0.013)	ND (0.016)	ND (0.013)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.028)	ND (0.014)	ND (0.018)	ND (0.014)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.021)	ND (0.010)	ND (0.013)	ND (0.011)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.061)	0.0474	ND (0.039)	0.0368 J	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.040)	ND (0.020)	ND (0.025)	ND (0.020)	
Caprolactam	NC	NC	NC	NC	ND (0.022)	ND (0.011)	ND (0.014)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.032)	ND (0.016)	ND (0.020)	ND (0.016)	
Chrysene	1	110	NC	1	ND (0.023)	ND (0.012)	ND (0.015)	ND (0.012)	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.023)	ND (0.012)	ND (0.015)	ND (0.012)	
Dibenzofuran	7	1,000	NC	210	ND (0.020)	ND (0.010)	ND (0.013)	ND (0.010)	
Diethyl phthalate	NC	NC	100	7	ND (0.023)	ND (0.012)	ND (0.015)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	ND (0.024)	ND (0.012)	ND (0.015)	ND (0.012)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.015)	ND (0.0076)	ND (0.0097)	ND (0.0078)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.034)	ND (0.017)	ND (0.021)	ND (0.017)	
1,1'-Biphenyl	NC	NC	60	NC	ND (0.080)	ND (0.040)	ND (0.051)	ND (0.041)	
Fluoranthene	100	1,000	NC	1,000	ND (0.030)	ND (0.015)	ND (0.019)	ND (0.015)	
Fluorene	30	1,000	30	386	ND (0.023)	ND (0.011)	ND (0.014)	ND (0.012)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.022)	ND (0.011)	ND (0.014)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.019)	ND (0.0095)	ND (0.012)	ND (0.0098)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.070)	ND (0.035)	ND (0.045)	ND (0.036)	
Hexachloroethane	NC	NC	NC	NC	ND (0.019)	ND (0.0095)	ND (0.012)	ND (0.0098)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	ND (0.024)	ND (0.012)	ND (0.015)	ND (0.012)	
Isophorone	NC	NC	NC	4	ND (0.019)	ND (0.0092)	ND (0.012)	ND (0.0094)	
Naphthalene	12	1,000	NC	12	ND (0.019)	ND (0.0094)	ND (0.012)	ND (0.0096)	
Nitrobenzene	NC	140	40	0.17	ND (0.020)	ND (0.0099)	ND (0.013)	ND (0.010)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.017)	ND (0.0084)	ND (0.011)	ND (0.0086)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.041)	ND (0.020)	ND (0.026)	ND (0.021)	
Pentachlorophenol	1	55	0.8	1	ND (0.12)	ND (0.059)	ND (0.075)	ND (0.060)	
Phenanthrene	100	1,000	NC	1,000	ND (0.031)	ND (0.016)	ND (0.020)	ND (0.016)	
Phenol	0.33	1,000	30	0.33	ND (0.072)	ND (0.036)	ND (0.046)	ND (0.037)	
Pyrene	100	1,000	NC	1,000	ND (0.026)	ND (0.013)	ND (0.017)	ND (0.013)	
Total SVOCs	NC	NC	NC	NC	ND	0.05	ND	0.04	

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate
- NC - No Criterion
- NA - Not Analyzed
- ND () - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- * - Recovery or RPD exceeds control limits

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
					Lab Sample ID	JA83045-1	JA83045-2
					Sampling Date	8/8/2011	8/8/2011
					Matrix	Soil	Soil
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.032)		ND (0.018)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA		NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.11)		ND (0.060)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.12)		ND (0.067)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.097)		ND (0.054)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.17)		ND (0.093)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.17)		ND (0.097)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.13)		ND (0.071)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.045)		ND (0.025)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.039)		ND (0.022)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.032)		ND (0.018)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.10)		ND (0.058)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.058)		ND (0.032)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.12)		ND (0.066)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.045)		ND (0.025)
2-Nitrophenol	NC	NC	7	0.3	ND (0.11)		ND (0.061)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.13)		ND (0.073)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.026)		ND (0.015)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.041)		ND (0.023)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.13)		ND (0.071)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.037)		ND (0.021)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.10)		ND (0.058)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.033)		ND (0.019)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.031)		ND (0.017)
4-Methylphenol	NC	NC	NC	NC	NA		NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.040)		ND (0.023)
4-Nitrophenol	NC	NC	7	0.3	ND (0.17)		ND (0.098)
Acenaphthene	20	1,000	20	98	ND (0.030)		ND (0.017)
Acenaphthylene	100	1,000	NC	107	ND (0.033)		ND (0.019)
Acetophenone	NC	NC	NC	NC	ND (0.018)		ND (0.010)
Anthracene	100	1,000	NC	1,000	ND (0.036)		ND (0.020)
Atrazine	NC	NC	NC	NC	ND (0.020)		ND (0.011)
Benzaldehyde	NC	NC	NC	NC	ND (0.024)		ND (0.013)
Benzo(a)anthracene	1	11	NC	1	0.0483	J	ND (0.019)
Benzo(a)pyrene	1	1	2.6	22	ND (0.031)		ND (0.018)
Benzo(b)fluoranthene	1	11	NC	2	ND (0.034)		ND (0.019)
Benzo(g,h,i)perylene	100	1,000	NC	1,000	ND (0.038)		ND (0.022)
Benzo(k)fluoranthene	1	110	NC	2	ND (0.039)		ND (0.022)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.042)		ND (0.023)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.031)		ND (0.017)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.091)		ND (0.051)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.060)		ND (0.033)
Caprolactam	NC	NC	NC	NC	ND (0.033)		ND (0.018)
Carbazole	NC	NC	NC	NC	ND (0.048)		ND (0.027)
Chrysene	1	110	NC	1	0.0584	J	ND (0.020)
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.035)		ND (0.020)
Dibenzofuran	7	1,000	NC	210	ND (0.031)		ND (0.017)
Diethyl phthalate	NC	NC	100	7	ND (0.035)		ND (0.020)
Dimethyl phthalate	NC	NC	200	27	ND (0.036)		ND (0.020)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.023)		ND (0.013)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.050)		ND (0.028)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.012)		ND (0.0067)
Fluoranthene	100	1,000	NC	1,000	0.0864	J	ND (0.026)
Fluorene	30	1,000	30	386	ND (0.034)		ND (0.019)
Hexachlorobenzene	0.33	12	NC	3	ND (0.034)		ND (0.019)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.029)		ND (0.016)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.11)		ND (0.059)
Hexachloroethane	NC	NC	NC	NC	ND (0.029)		ND (0.016)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	ND (0.036)		ND (0.020)
Isophorone	NC	NC	NC	4	ND (0.028)		ND (0.016)
Naphthalene	12	1,000	NC	12	ND (0.028)		ND (0.016)
Nitrobenzene	NC	140	40	0.17	ND (0.030)		ND (0.017)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.025)		ND (0.014)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.062)		ND (0.035)
Pentachlorophenol	1	55	0.8	1	ND (0.18)		ND (0.099)
Phenanthrene	100	1,000	NC	1,000	ND (0.047)		ND (0.026)
Phenol	0.33	1,000	30	0.33	ND (0.11)		ND (0.061)
Pyrene	100	1,000	NC	1,000	0.0801	J	ND (0.022)
Total SVOCs	NC	NC	NC	NC	0.27		ND

Notes:

- mg/kg - milligrams per kilogram
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate
- NC - No Criterion
- NA - Not Analyzed
- ND () - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- * - Recovery or RPD exceeds control limits

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6	
					Lab Sample ID	JA83045-5	JA83201-1	JA83045-3	JA83045-4	
					Sampling Date	8/8/2011	8/9/2011	8/8/2011	8/8/2011	
					Matrix	Soil	Soil	Soil	Soil	
					Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
					TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (7.0)
					TPH-DRO (C10-C44)	NC	NC	NC	NC	164
										ND (2.6)
										ND (3.9)
										ND (2.5)
										62
										23.7

Notes:
 NC - No Criterion
 ND (7.0) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-2 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
					Lab Sample ID	JA83045-1	JA83045-2
					Sampling Date	8/8/2011	8/8/2011
					Matrix	Soil	Soil
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (11)		ND (5.6)
TPH-DRO (C10-C44)	NC	NC	NC	NC	117		60.1

Notes:

- NC - No Criterion
- ND (7.0) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

	Sample ID				RCH-2-ENV-1/4	RCH-2-ENV-1/7	RCH-2-ENV-2/3	RCH-2-ENV-2/6
	Lab Sample ID				JA83045-5	JA83201-1	JA83045-3	JA83045-4
	Sampling Date				8/8/2011	8/9/2011	8/8/2011	8/8/2011
	Matrix				Soil	Soil	Soil	Soil
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00064)	ND (0.00022)	ND (0.00045)	ND (0.00030)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00047)	ND (0.00017)	ND (0.00033)	ND (0.00022)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.0011)	ND (0.00040)	ND (0.00081)	ND (0.00053)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00058)	ND (0.00020)	ND (0.00041)	ND (0.00027)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.0016)	ND (0.00057)	ND (0.0011)	ND (0.00076)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.0012)	ND (0.00040)	ND (0.00082)	ND (0.00054)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00090)	ND (0.00031)	ND (0.00064)	ND (0.00042)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0040)	ND (0.0014)	ND (0.0028)	ND (0.0019)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00063)	ND (0.00022)	ND (0.00044)	ND (0.00029)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00073)	ND (0.00026)	ND (0.00052)	ND (0.00034)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00048)	ND (0.00017)	ND (0.00034)	ND (0.00022)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00071)	ND (0.00025)	ND (0.00050)	ND (0.00033)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00051)	ND (0.00018)	ND (0.00036)	ND (0.00024)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00045)	ND (0.00016)	ND (0.00032)	ND (0.00021)
1,4-Dioxane	0.1	250	1	0.1	ND (0.15)	ND (0.054)	ND (0.11)	ND (0.072)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.011)	ND (0.0040)	0.0093	J ND (0.0053)
2-Hexanone	NC	NC	NC	NC	ND (0.0066)	ND (0.0023)	ND (0.0046)	ND (0.0031)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.0070)	ND (0.0024)	ND (0.0049)	ND (0.0032)
Acetone	0.05	1,000	2.2	0.05	0.0482	0.0118	0.132	0.029
Benzene	0.06	89	70	0.06	ND (0.00035)	ND (0.00012)	ND (0.00025)	ND (0.00016)
Bromochloromethane	NC	NC	NC	NC	ND (0.0014)	ND (0.00048)	ND (0.00097)	ND (0.00064)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00021)	ND (0.00042)	ND (0.00028)
Bromoform	NC	NC	NC	NC	ND (0.0020)	ND (0.00070)	ND (0.0014)	ND (0.00093)
Bromomethane	NC	NC	NC	NC	ND (0.0010)	ND (0.00036)	ND (0.00074)	ND (0.00049)
Carbon disulfide	NC	NC	NC	2.7	0.0011	0.00062	0.0038	J 0.0023
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00092)	ND (0.00032)	ND (0.00065)	ND (0.00043)
Chlorobenzene	1	1,000	40	1	ND (0.00085)	ND (0.00030)	ND (0.00060)	ND (0.00040)
Chloroethane	NC	NC	NC	1.9	ND (0.0011)	ND (0.00038)	ND (0.00076)	ND (0.00050)
Chloroform	0.37	700	12	0.37	ND (0.0013)	ND (0.00045)	ND (0.00090)	ND (0.00060)
Chloromethane	NC	NC	NC	NC	ND (0.0017)	ND (0.00058)	ND (0.0012)	ND (0.00077)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00085)	ND (0.00030)	ND (0.00060)	ND (0.00040)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00040)	ND (0.00014)	ND (0.00028)	ND (0.00019)
Cyclohexane	NC	NC	NC	NC	ND (0.0010)	ND (0.00035)	ND (0.00071)	ND (0.00047)
Dibromochloromethane	NC	NC	10	NC	ND (0.00045)	ND (0.00015)	ND (0.00030)	ND (0.00021)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00085)	ND (0.00030)	ND (0.00060)	ND (0.00040)
Ethylbenzene	1	780	NC	1	ND (0.00039)	ND (0.00014)	ND (0.00028)	ND (0.00018)
Freon 113	NC	NC	NC	6	ND (0.0019)	ND (0.00066)	ND (0.0013)	ND (0.00088)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00036)	ND (0.00013)	ND (0.00026)	ND (0.00017)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00083)	ND (0.00029)	ND (0.00059)	ND (0.00039)
Methyl acetate	NC	NC	NC	NC	ND (0.00059)	ND (0.00020)	ND (0.00041)	ND (0.00027)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00065)	ND (0.00023)	ND (0.00046)	ND (0.00030)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00061)	ND (0.00021)	ND (0.00043)	ND (0.00028)
Methyl Tert Butyl Ether	0.93	1,000	NC	0.93	ND (0.00047)	ND (0.00017)	ND (0.00033)	ND (0.00022)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00049)	ND (0.00017)	ND (0.00034)	ND (0.00023)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00049)	ND (0.00017)	ND (0.00035)	ND (0.00023)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00051)	ND (0.00018)	ND (0.00036)	ND (0.00024)
Toluene	0.7	1,000	36	0.7	ND (0.0010)	ND (0.00035)	ND (0.00071)	ND (0.00047)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.0011)	ND (0.00039)	ND (0.00079)	ND (0.00052)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00089)	ND (0.00031)	ND (0.00063)	ND (0.00041)
Trichloroethene	0.47	400	2	0.47	ND (0.00065)	ND (0.00023)	ND (0.00046)	ND (0.00030)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.0013)	ND (0.00044)	ND (0.00090)	ND (0.00059)
Vinyl chloride	0.02	27	NC	0.02	ND (0.0012)	ND (0.00043)	ND (0.00086)	ND (0.00057)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00049)	ND (0.00017)	ND (0.00034)	ND (0.00023)
Total VOCs	NC	NC	NC	NC	0.05	0.01	0.13	0.03

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

NA - Not Analyzed

ND (0.00064) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

RCH-2 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-2-ENV-3W/1.5	RCH-2-ENV-3W/6
					Lab Sample ID	JA83045-1	JA83045-2
					Sampling Date	8/8/2011	8/8/2011
					Matrix	Soil	Soil
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.0015)		ND (0.00068)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.0011)		ND (0.00050)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.0027)		ND (0.0012)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.0014)		ND (0.00061)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.0039)		ND (0.0017)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.0028)		ND (0.0012)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.0022)		ND (0.00096)
1,2,4-Trimethylbenzene	4	380	NC	4	NA		NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0095)		ND (0.0042)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.0015)		ND (0.00067)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.0017)		ND (0.00078)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.0011)		ND (0.00051)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.0017)		ND (0.00075)
1,3,5-Trimethylbenzene	8	380	NC	8	NA		NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.0012)		ND (0.00054)
1,4-Dichlorobenzene	2	250	20	2	ND (0.0011)		ND (0.00048)
1,4-Dioxane	0.1	250	1	0.1	ND (0.37)		ND (0.16)
2-Butanone (MEK)	0.12	1,000	100	0.12	0.0418	J	ND (0.012)
2-Hexanone	NC	NC	NC	NC	ND (0.016)		ND (0.0070)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.017)		ND (0.0074)
Acetone	0.05	1,000	2.2	0.05	0.321		0.165
Benzene	0.06	89	70	0.06	0.0022	J	ND (0.00037)
Bromochloromethane	NC	NC	NC	NC	ND (0.0033)		ND (0.0015)
Bromodichloromethane	NC	NC	NC	NC	0.0028	J	ND (0.00063)
Bromoform	NC	NC	NC	NC	ND (0.0048)		ND (0.0021)
Bromomethane	NC	NC	NC	NC	ND (0.0025)		ND (0.0011)
Carbon disulfide	NC	NC	NC	2.7	0.0378		0.002
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.0022)		ND (0.00097)
Chlorobenzene	1	1,000	40	1	ND (0.0020)		ND (0.00091)
Chloroethane	NC	NC	NC	1.9	ND (0.0026)		ND (0.0011)
Chloroform	0.37	700	12	0.37	0.0096	J	ND (0.0014)
Chloromethane	NC	NC	NC	NC	ND (0.0039)		ND (0.0018)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.0020)		ND (0.00091)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00096)		ND (0.00043)
Cyclohexane	NC	NC	NC	NC	ND (0.0024)		ND (0.0011)
Dibromochloromethane	NC	NC	10	NC	ND (0.0011)		ND (0.00047)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.0020)		ND (0.00090)
Ethylbenzene	1	780	NC	1	0.0046	J	ND (0.00042)
Freon 113	NC	NC	NC	6	ND (0.0045)		ND (0.0020)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00087)		ND (0.00039)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.007		ND (0.00088)
Methyl acetate	NC	NC	NC	NC	ND (0.014)		ND (0.0062)
Methylcyclohexane	NC	NC	NC	NC	ND (0.0015)		ND (0.00069)
Methylene Chloride	0.05	1,000	12	0.05	0.0944		ND (0.00065)
Methyl Tert Butyl Ether	0.93	1,000	NC	0.93	ND (0.0011)		ND (0.00050)
n-Butylbenzene	12	1,000	NC	12	NA		NA
n-Propylbenzene	3.9	1,000	NC	4	NA		NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.0012)		ND (0.00052)
p-Isopropyltoluene	NC	NC	NC	NC	NA		NA
sec-Butylbenzene	11	1,000	NC	11	NA		NA
Styrene	NC	NC	300	NC	ND (0.0012)		ND (0.00052)
tert-Butylbenzene	5.9	1,000	NC	6	NA		NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.0024)		ND (0.0011)
Toluene	0.7	1,000	36	0.7	ND (0.0024)		ND (0.0011)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.0027)		ND (0.0012)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.0021)		ND (0.00094)
Trichloroethene	0.47	400	2	0.47	ND (0.0016)		ND (0.00069)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.0030)		ND (0.0014)
Vinyl chloride	0.02	27	NC	0.02	ND (0.0029)		ND (0.0013)
Xylene (total)	0.26	1,000	0.26	1.6	0.007		ND (0.00052)
Total VOCs	NC	NC	NC	NC	0.52		0.17

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate

NC - No Criterion

NA - Not Analyzed

ND (0.00064) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3
Sample ID/Depth					JB15520-1	JB15520-2	JB15520-3	JB15630-5
Lab Sample ID					9/5/2012	9/5/2012	9/5/2012	9/4/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	253	249	132	761
Solids, Percent (%)	NC	NC	NC	NC	80.3	73.2	42.4	87.6
pH (su)	NC	NC	NC	NC	8.2	7.69	7.73	7.36

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6
Lab Sample ID					JB15630-6	JB15629-5	JB15629-6
Sampling Date					9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	804	212	626
Solids, Percent (%)	NC	NC	NC	NC	82.4	89.9	82.4
pH (su)	NC	NC	NC	NC	6.94	9.54	7.47

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SPECTRA ENERGY NJ-NY EXPANSION PROJECT
RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID/Depth	RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3		
		Lab Sample ID	JB15520-1/1R	JB15520-2/2R	JB15520-3/3R	JB15630-5		
		Sampling Date	9/5/2012	9/5/2012	9/5/2012	9/4/2012		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	5430	5500	3450	1850
Antimony	NC	NC	12	NC	21.5	15.9	9.4	<2.3
Arsenic	13	16	13	16	22.6	23.5	74.9	10.3
Barium	350	10,000	433	820	783	923	600	118
Beryllium	7.2	2,700	10	47	0.4	0.43	<0.48	0.34
Cadmium	2.5	60	4	7.5	4.1	4.7	3.6	1
Calcium	NC	NC	10000	NC	21600	29800	28200	2600
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	59.3	54.6	68	11.9
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	2.5 (1.7)	2.3(1.3)	1.3(2.4)	<0.46
Cobalt	NC	NC	20	NC	7	7.5	<12	<5.7
Copper	50	10,000	50	1,720	933	947	423	142
Cyanide (Total)	27	10,000	NC	40	<0.29	<0.33	2.5	NA
Iron	NC	NC	NC	NC	49100	55800	92500	16900
Lead	63	3,900	63	450	2200	1970	3230	205
Magnesium	NC	NC	NC	NC	2300	3070	4210	<570
Manganese	1,600	10,000	1600	2,000	321	531	573	129
Mercury (Total)	0.18	5.7	0.18	0.73	4	4.5	3	0.21
Molybdenum	NC	NC	2	NC	3.6	3.8	5.6	<2.3
Nickel	30	10,000	30	130	64.2	55.7	33.1	16.2
Potassium	NC	NC	NC	NC	<1200	<1300	<2400	<1100
Selenium	3.9	6,800	3.9	4	3.3	3.2	<4.8	<2.3
Silver	2	6,800	2	8.3	11.1	6.5	4.1	0.87
Sodium	NC	NC	NC	NC	<1200	<1300	<2400	<1100
Thallium	NC	NC	5	NC	<1.2	<1.3	<2.4	<1.1
Vanadium	NC	NC	39	NC	25.3	25	22.1	18
Zinc	109	10,000	109	2,480	1970	2140	1550	371

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<0.29- Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The value of the re-analyzed sample is identified by the parenthesis.

SPECTRA ENERGY NJ-NY EXPANSION PROJECT
RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID/Depth	RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6		
		Lab Sample ID	JB15630-6	JB15629-5	JB15629-6		
		Sampling Date	9/4/2012	9/4/2012	9/4/2012		
		Matrix	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg		
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aluminum	NC	NC	10000	NC	3730	7730	5160
Antimony	NC	NC	12	NC	<2.4	<2.2	3
Arsenic	13	16	13	16	8.9	4.6	24.1
Barium	350	10,000	433	820	202	102	198
Beryllium	7.2	2,700	10	47	0.74	0.38	1.6
Cadmium	2.5	60	4	7.5	0.6	<0.54	1.4
Calcium	NC	NC	10000	NC	2660	26300	9080
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.1	22.1	21.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.51	<0.44	1.5
Cobalt	NC	NC	20	NC	6.5	5.8	9.8
Copper	50	10,000	50	1,720	66.7	32.2	146
Cyanide (Total)	27	10,000	NC	40	NA	<0.29	<0.33
Iron	NC	NC	NC	NC	9240	14700	22100
Lead	63	3,900	63	450	595	95.2	455
Magnesium	NC	NC	NC	NC	<600	6210	948
Manganese	1,600	10,000	1600	2,000	128	208	176
Mercury (Total)	0.18	5.7	0.18	0.73	0.19	0.14	0.17
Molybdenum	NC	NC	2	NC	<2.4	<2.2	3.7
Nickel	30	10,000	30	130	20.4	36.6	41.6
Potassium	NC	NC	NC	NC	<1200	1780	<1200
Selenium	3.9	6,800	3.9	4	2.9	<2.2	2.8
Silver	2	6,800	2	8.3	1	0.64	1.3
Sodium	NC	NC	NC	NC	<1200	<1100	<1200
Thallium	NC	NC	5	NC	<1.2	<1.1	<1.2
Vanadium	NC	NC	39	NC	17.5	28.1	29.1
Zinc	109	10,000	109	2,480	237	98.1	496

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<0.29- Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The value of the re-analyzed sample is identified by the parenthesis.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth		RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3			
Lab Sample ID		JB15520-1	JB15520-2	JB15520-3	JB15630-5			
Sampling Date		9/5/2012	9/5/2012	9/5/2012	9/4/2012			
Matrix		Soil	Soil	Soil	Soil			
Units		mg/kg	mg/kg	mg/kg	mg/kg			
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
	Aroclor 1016	NC	NC	NC	NC	ND (0.0098)	ND (0.011)	ND (0.020)
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.025)	ND (0.046)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.021)	ND (0.039)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.025)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.023)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.019)	ND (0.036)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.025)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.023)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.025)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0098) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth		RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6			
Lab Sample ID		JB15630-6	JB15629-5	JB15629-6			
Sampling Date		9/4/2012	9/4/2012	9/4/2012			
Matrix		Soil	Soil	Soil			
Units		mg/kg	mg/kg	mg/kg			
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
	Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0093)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.021)	ND (0.024)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.018)	ND (0.020)
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.013)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.017)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.012)
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.013)
Total PCBs	0.1	25	1	3.2	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0098) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth	RCH-3-ENV-1/3				RCH-3-ENV-1/3-A		RCH-3-ENV-1/7		RCH-3-ENV-2W/3	
	Lab Sample ID	Sampling Date	Matrix	Units	Result	Result	Result	Result	Result	Result
	JB15520-1	9/5/2012	Soil	mg/kg						
	JB15520-2	9/5/2012	Soil	mg/kg						
	JB15520-3	9/5/2012	Soil	mg/kg						
	JB15630-5	9/4/2012	Soil	mg/kg						
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.003	0.0029	ND (0.00079)	ND (0.00039)		
4,4'-DDE	0.0033	120	0.0033	17	0.0035	0.0034	ND (0.00091)	ND (0.00045)		
4,4'-DDT	0.0033	94	0.0033	136	0.0021	0.0027	ND (0.0011)	ND (0.00055)		
Aldrin	0.005	1.4	0.14	0.19	ND (0.00038)	ND (0.00042)	ND (0.00077)	ND (0.00038)		
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00057)	ND (0.00062)	ND (0.0012)	ND (0.00057)		
alpha-Chlordane	0.094	47	1.3	2.9	0.0035	0.0037	ND (0.0010)	ND (0.00049)		
beta-BHC	0.036	14	0.6	0.09	ND (0.00053)	ND (0.00058)	ND (0.0011)	ND (0.00053)		
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA		
gamma-Chlordane	NC	NC	NC	14	0.004	0.0041	0.0017	ND (0.00039)		
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00044)	ND (0.00049)	ND (0.00090)	ND (0.00044)		
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00058)	ND (0.00064)	ND (0.0012)	ND (0.00059)		
Endosulfan-I	2.4	920	NC	102	ND (0.00037)	ND (0.00040)	ND (0.00075)	ND (0.00037)		
Endosulfan-II	2.4	920	NC	102	ND (0.00050)	ND (0.00055)	ND (0.0010)	ND (0.00050)		
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00068)	ND (0.00075)	ND (0.0014)	ND (0.00068)		
Endrin	0.014	410	0.014	0.060	ND (0.00039)	ND (0.00043)	ND (0.00079)	ND (0.00039)		
Endrin aldehyde	NC	NC	NC	NC	ND (0.00072)	ND (0.00079)	ND (0.0015)	ND (0.00072)		
Endrin ketone	NC	NC	NC	NC	0.0042	0.0027	ND (0.0010)	ND (0.00049)		
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00034)	ND (0.00038)	ND (0.00070)	ND (0.00034)		
Heptachlor	0.042	29	0.14	0.38	ND (0.00046)	ND (0.00051)	ND (0.00094)	ND (0.00046)		
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00037)	ND (0.00041)	ND (0.00076)	ND (0.00037)		
Methoxychlor	NC	NC	1.2	900	ND (0.00053)	ND (0.00059)	ND (0.0011)	ND (0.00053)		
Toxaphene	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.019)	ND (0.0095)		
2,4-D	NC	NC	NC	0.5	ND (0.0052)	ND (0.0056)	ND (0.0096)	ND (0.0047)		
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00062)	ND (0.00068)	ND (0.0012)	ND (0.00062)		
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0017)	ND (0.0029)	ND (0.0014)		
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0013)	ND (0.0023)	ND (0.0011)		
Dicamba	NC	NC	NC	NC	ND (0.00073)	ND (0.00079)	ND (0.0014)	ND (0.00066)		
Dichloroprop	NC	NC	NC	NC	ND (0.0042)	ND (0.0046)	ND (0.0078)	ND (0.0038)		
Dinoseb	NC	NC	NC	NC	ND (0.0033)	ND (0.0036)	ND (0.0062)	ND (0.0030)		
MCPA	NC	NC	NC	NC	ND (0.56)	ND (0.61)	ND (1.0)	ND (0.51)		
MCPP	NC	NC	NC	NC	ND (0.29)	ND (0.32)	ND (0.54)	ND (0.26)		
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0013)	ND (0.0022)	ND (0.0011)		
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.023)	ND (0.011)		

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00038) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
a = More than 40 % RPD for detected concentrations between the two GC columns.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6
Lab Sample ID					JB15630-6	JB15629-5	JB15629-6
Sampling Date					9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00040)	0.0051	ND (0.00040)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00046)	0.0119	ND (0.00046)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	0.0099	ND (0.00058)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00039)	ND (0.00036)	ND (0.00039)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00059)	ND (0.00053)	ND (0.00059)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00051)	0.0122	ND (0.00051)
beta-BHC	0.036	14	0.6	0.09	ND (0.00055)	ND (0.00050)	ND (0.00055)
Chlordane	NC	NC	NC	NC	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00040)	0.0133	ND (0.00040)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00042)	ND (0.00046)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00061)	0.0078	ND (0.00061)
Endosulfan-I	2.4	920	NC	102	ND (0.00038)	ND (0.00035)	ND (0.00038)
Endosulfan-II	2.4	920	NC	102	ND (0.00052)	ND (0.00047)	ND (0.00052)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00071)	ND (0.00065)	ND (0.00071)
Endrin	0.014	410	0.014	0.060	ND (0.00040)	ND (0.00036)	ND (0.00040)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.00068)	ND (0.00075)
Endrin ketone	NC	NC	NC	NC	ND (0.00051)	ND (0.00046)	ND (0.00051)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00033)	ND (0.00036)
Heptachlor	0.042	29	0.14	0.38	ND (0.00048)	ND (0.00044)	ND (0.00048)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00035)	ND (0.00039)
Methoxychlor	NC	NC	1.2	900	ND (0.00056)	ND (0.00050)	ND (0.00056)
Toxaphene	NC	NC	NC	NC	ND (0.00099)	ND (0.00090)	ND (0.00099)
2,4-D	NC	NC	NC	0.5	ND (0.00050)	ND (0.00046)	ND (0.00050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00061)	ND (0.00056)	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0014)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00071)	ND (0.00065)	ND (0.00070)
Dichloroprop	NC	NC	NC	NC	ND (0.0041)	ND (0.0038)	ND (0.0041)
Dinoseb	NC	NC	NC	NC	ND (0.0033)	ND (0.0030)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.55)	ND (0.50)	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.26)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	0.0085	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00038) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
a = More than 40 % RPD for detected concentrations between the two GC columns.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3
Lab Sample ID					JB15520-1	JB15520-2	JB15520-3	JB15630-5
Sampling Date					9/5/2012	9/5/2012	9/5/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.023)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.037)	ND (0.040)	ND (0.077)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.041)	ND (0.045)	ND (0.086)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.034)	ND (0.036)	ND (0.070)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.057)	ND (0.062)	ND (0.12)	ND (0.053)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.060)	ND (0.064)	ND (0.12)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.044)	ND (0.047)	ND (0.091)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.033)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.015)	ND (0.028)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.023)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.036)	ND (0.039)	ND (0.075)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.020)	ND (0.021)	ND (0.042)	ND (0.018)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.041)	ND (0.044)	ND (0.085)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.017)	ND (0.033)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.038)	ND (0.041)	ND (0.079)	ND (0.035)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.045)	ND (0.049)	ND (0.094)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0091)	ND (0.0097)	ND (0.019)	ND (0.0083)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.015)	ND (0.030)	ND (0.013)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.044)	ND (0.047)	ND (0.091)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.027)	ND (0.012)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.036)	ND (0.038)	ND (0.074)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.024)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.022)	ND (0.0098)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.029)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.060)	ND (0.065)	ND (0.13)	ND (0.055)
Acenaphthene	20	1,000	20	98	0.0162	J ND (0.011)	0.3360	ND (0.0095)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.0374	0.0361	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0063)	ND (0.0068)	ND (0.013)	ND (0.0057)
Anthracene	100	1,000	NC	1,000	0.0424	0.1150	J 0.4580	J ND (0.011)
Atrazine	NC	NC	NC	NC	ND (0.0070)	ND (0.0076)	ND (0.015)	ND (0.0064)
Benzaldehyde	NC	NC	NC	NC	ND (0.0082)	ND (0.0088)	ND (0.017)	ND (0.0075)
Benzo(a)anthracene	1	11	NC	1	0.1680	0.3900	1.04	0.0190
Benzo(a)pyrene	1	1	2.6	22	0.1640	0.2960	0.7370	0.0192
Benzo(b)fluoranthene	1	11	NC	2	0.1570	0.2970	0.7110	0.0241
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.1250	0.1990	0.5110	0.0196
Benzo(k)fluoranthene	1	110	NC	2	0.1380	0.2910	0.7480	0.0148
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.016)	ND (0.030)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.022)	ND (0.0098)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.032)	ND (0.034)	ND (0.066)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	ND (0.022)	ND (0.043)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.023)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.034)	ND (0.015)
Chrysene	1	110	NC	1	0.1870	0.4010	1.18	0.0245
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0434	0.0861	0.1820	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.011)	ND (0.022)	ND (0.0097)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.013)	ND (0.025)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.0663	J 0.0594	J 0.0889	J 0.0614
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0079)	ND (0.0085)	ND (0.017)	ND (0.0072)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.019)	ND (0.036)	ND (0.016)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0041)	ND (0.0045)	ND (0.0086)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	0.2870	0.7170	3.0400	0.0204
Fluorene	30	1,000	30	386	0.0210	J 0.0425	0.3580	ND (0.011)
Hexachlorobenzene	0	12	NC	3	ND (0.012)	ND (0.013)	ND (0.024)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0099)	ND (0.011)	ND (0.021)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.036)	ND (0.039)	ND (0.076)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.0099)	ND (0.011)	ND (0.021)	ND (0.0091)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.1110	0.1920	0.4850	0.0133
Isophorone	NC	NC	NC	4	ND (0.0096)	ND (0.010)	ND (0.020)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0097)	ND (0.010)	0.0638	ND (0.0089)
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.011)	ND (0.022)	ND (0.0094)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0087)	ND (0.0094)	ND (0.018)	ND (0.0080)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.023)	ND (0.044)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.061)	ND (0.066)	ND (0.13)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	0.1830	0.4000	1.4800	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.037)	ND (0.040)	ND (0.078)	ND (0.034)
Pyrene	100	1,000	NC	1,000	0.2450	0.4500	2.3000	0.0216
Total SVOCs	NC	NC	NC	NC	1.95	3.97	13.75	0.24

Notes:
mg/kg - milligrams per kilogram
J - Result is less than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
NA - Not Analyzed
ND (0.011) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6
Lab Sample ID					JB15630-6	JB15629-5	JB15629-6
Sampling Date					9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.0098)	ND (0.011)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.033)	ND (0.036)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.037)	ND (0.040)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.033)	ND (0.030)	ND (0.033)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.056)	ND (0.051)	ND (0.056)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.058)	ND (0.053)	ND (0.058)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.039)	ND (0.042)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.012)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.0099)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.035)	ND (0.032)	ND (0.035)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.018)	ND (0.019)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.040)	ND (0.036)	ND (0.040)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.037)	ND (0.034)	ND (0.037)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.044)	ND (0.040)	ND (0.044)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0088)	ND (0.0081)	ND (0.0088)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.013)	ND (0.014)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.042)	ND (0.039)	ND (0.042)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.035)	ND (0.032)	ND (0.035)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0096)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.014)
4-Nitrophenol	NC	NC	7	0.3	ND (0.059)	ND (0.054)	ND (0.059)
Acenaphthene	20	1,000	20	98	ND (0.010)	0.0431	ND (0.010)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.0449	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0061)	ND (0.0056)	ND (0.0061)
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.1780	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0068)	ND (0.0063)	ND (0.0068)
Benzaldehyde	NC	NC	NC	NC	ND (0.0080)	ND (0.0073)	ND (0.0080)
Benzo(a)anthracene	1	11	NC	1	0.0196	J 0.4340	ND (0.011)
Benzo(a)pyrene	1	1	2.6	22	0.0172	J 0.4430	ND (0.011)
Benzo(b)fluoranthene	1	11	NC	2	0.0276	J 0.4040	ND (0.012)
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.0169	J 0.3560	ND (0.013)
Benzo(k)fluoranthene	1	110	NC	2	ND (0.013)	0.2920	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0096)	ND (0.010)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.031)	0.0366	J ND (0.031)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.018)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.016)	0.0412	J ND (0.016)
Chrysene	1	110	NC	1	0.0211	J 0.4400	ND (0.012)
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	0.1030	ND (0.012)
Dibenzofuran	7	1,000	NC	210	ND (0.010)	0.0302	ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	0.0817	ND (0.011)	0.0433 J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0077)	ND (0.0071)	ND (0.0077)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.015)	ND (0.017)
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0040)	ND (0.0037)	ND (0.0040)
Fluoranthene	100	1,000	NC	1,000	0.0224	J 0.8680	ND (0.015)
Fluorene	30	1,000	30	386	ND (0.011)	0.0621	ND (0.011)
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.010)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0096)	ND (0.0088)	ND (0.0096)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.032)	ND (0.035)
Hexachloroethane	NC	NC	NC	NC	ND (0.0096)	ND (0.0088)	ND (0.0096)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.0164	J 0.2980	ND (0.012)
Isophorone	NC	NC	NC	4	ND (0.0093)	ND (0.0085)	ND (0.0093)
Naphthalene	12	1,000	NC	12	ND (0.0095)	0.0201	J ND (0.0095)
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.0092)	ND (0.010)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0085)	ND (0.0078)	ND (0.0085)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.019)	ND (0.021)
Pentachlorophenol	1	55	0.8	1	ND (0.059)	ND (0.054)	ND (0.059)
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	0.5710	ND (0.016)
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.033)	ND (0.036)
Pyrene	100	1,000	NC	1,000	0.0238	J 0.8350	ND (0.013)
Total SVOCs	NC	NC	NC	NC	0.25	5.50	0.04

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 NA - Not Analyzed
 ND (0.011) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3	RCH-3-ENV-2W/5
Lab Sample ID					JB15520-1	JB15520-2	JB15520-3	JB15630-5	JB15630-6
Sampling Date					9/5/2012	9/5/2012	9/5/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.4)	ND (1.6)	ND (3.6)	ND (1.2)	ND (1.3)
TPH-DRO (C10-C44)	NC	NC	NC	NC	152	284	3980	39.5	ND (4.3)

Notes:

- NC - No Criterion
 - ND (1.4) - Not Detected (Method Detection Limit)
 - SCO - Soil Cleanup Objective
 - GRO - Gasoline Range Organics
 - DRO - Diesel Range Organics
- Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-4/1	RCH-3-ENV-4/6
Lab Sample ID					JB15629-5	JB15629-6
Sampling Date					9/4/2012	9/4/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (1.1)	ND (1.3)
TPH-DRO (C10-C44)	NC	NC	NC	NC	209	ND (4.6)

Notes:
 NC - No Criterion
 ND (1.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Sample ID/Depth				RCH-3-ENV-1/3	RCH-3-ENV-1/3-A	RCH-3-ENV-1/7	RCH-3-ENV-2W/3
	Lab Sample ID				JB15520-1	JB15520-2	JB15520-3	JB15630-5
	Sampling Date				9/5/2012	9/5/2012	9/5/2012	9/4/2012
	Matrix				Soil	Soil	Soil	Soil
Units				mg/kg	mg/kg	mg/kg	mg/kg	
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00015)	ND (0.00015)	ND (0.00031)	ND (0.00013)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00018)	ND (0.00019)	ND (0.00039)	ND (0.00016)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00024)	ND (0.00025)	ND (0.00051)	ND (0.00021)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00019)	ND (0.00020)	ND (0.00040)	ND (0.00017)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00036)	ND (0.00037)	ND (0.00076)	ND (0.00031)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00023)	ND (0.00024)	ND (0.00048)	ND (0.00020)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00019)	ND (0.00020)	ND (0.00041)	ND (0.00017)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0012)	ND (0.0013)	ND (0.0026)	ND (0.0011)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00018)	ND (0.00018)	ND (0.00037)	ND (0.00015)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00026)	ND (0.00027)	ND (0.00056)	ND (0.00023)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00019)	ND (0.00020)	ND (0.00040)	ND (0.00016)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00021)	ND (0.00022)	ND (0.00045)	ND (0.00019)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00026)	ND (0.00027)	ND (0.00055)	ND (0.00023)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00024)	ND (0.00026)	ND (0.00052)	ND (0.00021)
1,4-Dioxane	0.1	250	1	0.1	ND (0.082)	ND (0.086)	ND (0.18)	ND (0.072)
2-Butanone (MEK)	0.12	1,000	100	0.12	0.0059 J	ND (0.0035)	ND (0.0070)	ND (0.0029)
2-Hexanone	NC	NC	NC	NC	ND (0.00086)	ND (0.00090)	ND (0.0018)	ND (0.00076)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.0010)	ND (0.0011)	ND (0.0022)	ND (0.00091)
Acetone	0.05	1,000	2.2	0.05	0.061	0.0962	0.106	ND (0.0021)
Acrolein	NC	NC	NC	NC	ND (0.0039)	ND (0.0041)	ND (0.0084)	ND (0.0034)
Acrylonitrile	NC	NC	NC	NC	ND (0.0021)	ND (0.0022)	ND (0.0045)	ND (0.0019)
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00017)	ND (0.00035)	ND (0.00014)
Bromochloromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00039)	ND (0.00078)	ND (0.00032)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00015)	ND (0.00015)	ND (0.00031)	ND (0.00013)
Bromoform	NC	NC	NC	NC	ND (0.00021)	ND (0.00022)	ND (0.00045)	ND (0.00018)
Bromomethane	NC	NC	NC	NC	ND (0.00038)	ND (0.00040)	ND (0.00080)	ND (0.00033)
Carbon disulfide	NC	NC	NC	2.7	0.0035 J	0.0035 J	0.0092 J	0.0011 J
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00018)	ND (0.00019)	ND (0.00039)	ND (0.00016)
Chlorobenzene	1	1,000	40	1	ND (0.00015)	ND (0.00016)	ND (0.00032)	ND (0.00013)
Chloroethane	NC	NC	NC	1.9	ND (0.00031)	ND (0.00033)	ND (0.00067)	ND (0.00028)
Chloroform	0.37	700	12	0.37	ND (0.00011)	ND (0.00012)	ND (0.00024)	ND (0.00010)
Chloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00027)	ND (0.00055)	ND (0.00023)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00025)	ND (0.00027)	ND (0.00054)	ND (0.00022)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00020)	ND (0.00041)	ND (0.00017)
Cyclohexane	NC	NC	NC	NC	ND (0.00017)	ND (0.00018)	ND (0.00037)	ND (0.00015)
Dibromochloromethane	NC	NC	10	NC	ND (0.00023)	ND (0.00024)	ND (0.00048)	ND (0.00020)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00033)	ND (0.00067)	ND (0.00028)
Ethylbenzene	1	780	NC	1	ND (0.00036)	ND (0.00038)	ND (0.00078)	ND (0.00032)
Freon 113	NC	NC	NC	6	ND (0.00059)	ND (0.00062)	ND (0.0013)	ND (0.00052)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00010)	ND (0.00011)	ND (0.00022)	ND (0.000090)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)	ND (0.00025)	ND (0.00051)	ND (0.00021)
Methyl acetate	NC	NC	NC	NC	ND (0.0036)	ND (0.0038)	ND (0.0077)	ND (0.0032)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00023)	ND (0.00025)	ND (0.00050)	ND (0.00021)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0018)	ND (0.0018)	ND (0.0037)	ND (0.0015)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00033)	ND (0.00034)	ND (0.00069)	ND (0.00029)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00019)	ND (0.00020)	ND (0.00041)	ND (0.00017)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	0.0011 J	ND (0.00013)	ND (0.00027)	ND (0.00011)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00024)	ND (0.00025)	ND (0.00051)	ND (0.00021)
Toluene	0.7	1,000	36	0.7	ND (0.00015)	ND (0.00015)	ND (0.00031)	ND (0.00013)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00033)	ND (0.00035)	ND (0.00070)	ND (0.00029)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00021)	ND (0.00023)	ND (0.00046)	ND (0.00019)
Trichloroethene	0.47	400	2	0.47	ND (0.00024)	ND (0.00025)	ND (0.00051)	ND (0.00021)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00043)	ND (0.00088)	ND (0.00036)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00020)	ND (0.00021)	ND (0.00042)	ND (0.00017)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00019)	ND (0.00020)	ND (0.00041)	ND (0.00017)
Total VOCs	NC	NC	NC	NC	0.072	0.100	0.115	0.001

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
NC - No Criterion
NA - Not Analyzed
ND (0.00015) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-3-ENV-2W/5	RCH-3-ENV-4/1	RCH-3-ENV-4/6
Lab Sample ID					JB15630-6	JB15629-5	JB15629-6
Sampling Date					9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
UNRESTRICTED VOCs (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00014)	ND (0.00011)	ND (0.00013)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00017)	ND (0.00014)	ND (0.00016)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00023)	ND (0.00018)	ND (0.00021)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00018)	ND (0.00014)	ND (0.00017)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00034)	ND (0.00027)	ND (0.00031)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00022)	ND (0.00017)	ND (0.00020)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00018)	ND (0.00015)	ND (0.00017)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0012)	ND (0.00093)	ND (0.0011)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00017)	ND (0.00013)	ND (0.00015)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00025)	ND (0.00020)	ND (0.00023)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00018)	ND (0.00014)	ND (0.00016)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00020)	ND (0.00016)	ND (0.00019)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)	ND (0.00020)	ND (0.00023)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00023)	ND (0.00018)	ND (0.00021)
1,4-Dioxane	0.1	250	1	0.1	ND (0.078)	ND (0.062)	ND (0.072)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0032)	ND (0.0025)	ND (0.0029)
2-Hexanone	NC	NC	NC	NC	ND (0.00082)	ND (0.00065)	ND (0.00075)
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	1	ND (0.00099)	ND (0.00079)	ND (0.00091)
Acetone	0.05	1,000	2.2	0.05	0.0131	ND (0.0018)	ND (0.0021)
Acrolein	NC	NC	NC	NC	ND (0.0037)	ND (0.0030)	ND (0.0034)
Acrylonitrile	NC	NC	NC	NC	ND (0.0020)	ND (0.0016)	ND (0.0019)
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00012)	ND (0.00014)
Bromochloromethane	NC	NC	NC	NC	ND (0.00035)	ND (0.00028)	ND (0.00032)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00014)	ND (0.00011)	ND (0.00013)
Bromoform	NC	NC	NC	NC	ND (0.00020)	ND (0.00016)	ND (0.00018)
Bromomethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00029)	ND (0.00033)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00015)	ND (0.00012)	ND (0.00014)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00018)	ND (0.00014)	ND (0.00016)
Chlorobenzene	1	1,000	40	1	ND (0.00014)	ND (0.00011)	ND (0.00013)
Chloroethane	NC	NC	NC	1.9	ND (0.00030)	ND (0.00024)	ND (0.00028)
Chloroform	0.37	700	12	0.37	ND (0.00011)	ND (0.000087)	ND (0.00010)
Chloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00020)	ND (0.00023)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00024)	ND (0.00019)	ND (0.00022)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00015)	ND (0.00017)
Cyclohexane	NC	NC	NC	NC	ND (0.00016)	ND (0.00013)	ND (0.00015)
Dibromochloromethane	NC	NC	10	NC	ND (0.00022)	ND (0.00017)	ND (0.00020)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00024)	ND (0.00028)
Ethylbenzene	1	780	NC	1	ND (0.00035)	ND (0.00028)	ND (0.00032)
Freon 113	NC	NC	NC	6	ND (0.00057)	ND (0.00045)	ND (0.00052)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00098)	ND (0.00078)	ND (0.00090)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00023)	ND (0.00018)	ND (0.00021)
Methyl acetate	NC	NC	NC	NC	ND (0.0034)	ND (0.0027)	ND (0.0032)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00022)	ND (0.00018)	ND (0.00021)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0017)	ND (0.0013)	ND (0.0015)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00031)	ND (0.00025)	ND (0.00029)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00018)	ND (0.00015)	ND (0.00017)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00012)	ND (0.000096)	ND (0.00011)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00023)	ND (0.00018)	ND (0.00021)
Toluene	0.7	1,000	36	0.7	ND (0.00014)	ND (0.00011)	ND (0.00013)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00031)	ND (0.00025)	ND (0.00029)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)	ND (0.00016)	ND (0.00019)
Trichloroethene	0.47	400	2	0.47	ND (0.00023)	ND (0.00018)	ND (0.00021)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00031)	ND (0.00036)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00019)	ND (0.00015)	ND (0.00017)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00018)	ND (0.00015)	ND (0.00017)
Total VOCs	NC	NC	NC	NC	0.013	ND	ND

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
NC - No Criterion
NA - Not Analyzed
ND (0.00015) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-3-ENV-1-WC	RCH-3-ENV-1-WC/2	RCH-3-ENV-1-WC/4	RCH-3-ENV-1-WC/6
Sample ID/Depth								
Lab Sample ID					JB15520-8	JB15520-4	JB15520-5	JB15520-6
Sampling Date					9/5/2012	9/5/2012	9/5/2012	9/5/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO
					Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	135	NA	NA	NA
Solids %	NC	NC	NC	NC	65.2	79.2	77	80.8
pH (su)	NC	NC	NC	NC	9.47	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-3-ENV-1-WC/8	RCH-3-ENV-2W-WC	RCH-3-ENV-2W-WC/2	RCH-3-ENV-2W-WC/4
Lab Sample ID					JB15520-7	JB15630-7	JB15630-1	JB15630-2
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	705	NA	NA
Solids %	NC	NC	NC	NC	96.3	82	84.1	81.6
pH (su)	NC	NC	NC	NC	NA	7.95	NA	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-3-ENV-2W-WC/6	RCH-3-ENV-2W-WC/8	RCH-3-ENV-4-WC	RCH-3-ENV-4-WC/2
Lab Sample ID					JB15630-3	JB15630-4	JB15629-7	JB15629-1
Sampling Date					9/4/2012	9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	514	NA
Solids %	NC	NC	NC	NC	79.1	81.7	82.9	86.8
pH (su)	NC	NC	NC	NC	NA	NA	8.36	NA

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

RCH-3 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-3-ENV-4-WC/4	RCH-3-ENV-4-WC/6	RCH-3-ENV-4-WC/8	RCH-3-ENV-1+4+2W COMP	
Lab Sample ID					JB15629-2	JB15629-3	JB15629-4	JB15520-9	
Sampling Date					9/4/2012	9/4/2012	9/4/2012	9/5/2012	
Matrix					Soil	Soil	Soil	Soil	
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	158	
Solids %	NC	NC	NC	NC	82.5	78.2	75.7	NA	
pH (su)	NC	NC	NC	NC	NA	NA	NA	9.15	

Notes:

NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

TRC Sample No.:	RCH-3-ENV-1-WC	RCH-3-ENV-2W-WC	RCH-3-ENV-4-WC	RCH-3-ENV-1+4+2W COMP
Date Sampled:	09/05/12	09/04/12	09/04/12	09/05/12
Lab Sample No.:	JB15520-8A	JB15630-7A	JB15629-7A	JB15520-9A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
Arsenic	5.0	<0.50	<0.50	<0.50	<0.50
Barium	100.0	1	<1.0	<1.0	<1.0
Cadmium	1.0	<0.0050	0.005	0.0062	0.0071
Chromium	5.0	<0.010	<0.010	<0.010	<0.010
Copper	NC	<0.025	0.059	<0.025	<0.025
Lead	5.0	<0.50	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	NC	0.073	<0.040	<0.040	0.051
Selenium	1.0	<0.50	<0.50	<0.50	<0.50
Silver	5.0	<0.010	<0.010	<0.010	<0.010
Zinc	NC	3.9	2.3	1.3	2.8

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

RCH-3 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-3-ENV-1-WC	RCH-3-ENV-2W-WC	RCH-3-ENV-4-WC	RCH-3-ENV-1+4+2W COMP
Lab Sample ID					JB15520-8/8R	JB15630-7	JB15629-7	JB15520-9
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	5620	3690	5250	6480
Antimony	NC	NC	12	NC	11.9	5.3	<2.4	3.9
Arsenic	13	16	13	16	30	17	11.9	22.1
Barium	350	10,000	433	820	906	306	164	244
Beryllium	7.2	2,700	10	47	0.44	0.67	0.61	0.5
Cadmium	2.5	60	4	7.5	4.4	2.5	1.2	8.6
Calcium	NC	NC	10000	NC	34100	6130	18500	15300
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	55.5	23	20.7	24.6
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	2(3.3)	0.59	0.72	1.5
Chromium (Trivalent)	30	6800	41	NC	53.5	22.4	20	23.1
Cobalt	NC	NC	20	NC	<7.8	7.6	6.1	7.7
Copper	50	10,000	50	1,720	627	269	154	221
Cyanide (Total)	27	10,000	NC	40	<0.35	1.3	<0.29	<0.30
Iron	NC	NC	NC	NC	56900	27700	18300	43900
Lead	63	3,900	63	450	2230	898	418	852
Magnesium	NC	NC	NC	NC	11300	965	3920	3790
Manganese	1,600	10,000	1600	2,000	294	272	215	280
Mercury (Total)	0.18	5.7	0.18	0.73	2.5	0.6	0.22	0.64
Molybdenum	NC	NC	2	NC	4.3	2.5	<2.4	3.6
Nickel	30	10,000	30	130	50	34	35.8	28.2
Potassium	NC	NC	NC	NC	<1600	<1200	<1200	<1300
Selenium	3.9	6,800	3.9	4	4.7	2.4	<2.4	<2.6
Silver	2	6,800	2	8.3	5.6	2	1.1	3.6
Sodium	NC	NC	NC	NC	<1600	<1200	<1200	<1300
Thallium	NC	NC	5	NC	<1.6	<1.2	<1.2	<1.3
Vanadium	NC	NC	39	NC	28.2	28.6	24.7	23.8
Zinc	109	10,000	109	2,480	1920	778	448	1690

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<7.8 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

b - Calculated as: (Chromium) - (Chromium, Hexavalent)

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The value of the re-analyzed sample is identified by the parenthesis.

RCH-3 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-3-ENV-1-WC	RCH-3-ENV-2W-WC	RCH-3-ENV-4-WC	RCH-3-ENV-1+4+2W COMP
Lab Sample ID					JB15520-8	JB15630-7	JB15629-7	JB15520-9
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1221	NC	NC	NC	NC	ND (0.028)	ND (0.024)	ND (0.024)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.024)	ND (0.020)	ND (0.020)	ND (0.020)
Aroclor 1242	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.022)	ND (0.019)	ND (0.019)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.013)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.012) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

TRC Sample No.: RCH-3-ENV-1+4+2W COMP
 Date Sampled: 09/05/12
 Lab Sample No.: JB15520-9A
 Laboratory: Accutest
 Matrix: Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)	Result
gamma-BHC (Lindane)	0.40	ND (0.000041)
Chlordane	0.03	ND (0.0024)
Endrin	0.02	ND (0.000064)
Heptachlor	0.01	ND (0.000084)
Heptachlor epoxide	0.01	ND (0.000038)
Methoxychlor	10	ND (0.000082)
Toxaphene	0.5	ND (0.0015)
2,4-D	NC	ND (0.0013)
2,4,5-TP (Silvex)	NC	ND (0.00018)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-3-ENV-1-WC	RCH-3-ENV-2W-WC	RCH-3-ENV-4-WC	RCH-3-ENV-1+4+2W COMP
Lab Sample ID					JB15520-8	JB15630-7	JB15629-7	JB15520-9
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00048)	ND (0.00041)	0.0010	ND (0.00040)
4,4'-DDE	0.0033	120	0.0033	17	0.0021	a ND (0.00047)	0.004	0.0016
4,4'-DDT	0.0033	94	0.0033	136	0.0142	ND (0.00059)	0.0028	0.0027
Aldrin	0.005	1.4	0.14	0.19	ND (0.00047)	ND (0.00040)	ND (0.00040)	ND (0.00039)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00071)	ND (0.00060)	ND (0.00059)	ND (0.00058)
alpha-Chlordane	0.094	47	1.3	2.9	0.0031	ND (0.00052)	0.0050	0.0037
beta-BHC	0.036	14	0.6	0.09	ND (0.00066)	ND (0.00056)	ND (0.00056)	ND (0.00055)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	0.0041	a ND (0.00041)	0.0057	0.0037
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00055)	ND (0.00047)	ND (0.00046)	ND (0.00045)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00073)	ND (0.00062)	0.0029	ND (0.00060)
Endosulfan-I	2.4	920	NC	102	ND (0.00046)	ND (0.00039)	ND (0.00038)	ND (0.00038)
Endosulfan-II	2.4	920	NC	102	ND (0.00062)	ND (0.00053)	ND (0.00052)	ND (0.00051)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00086)	ND (0.00073)	ND (0.00072)	ND (0.00070)
Endrin	0.014	410	0.014	0.060	ND (0.00048)	ND (0.00041)	ND (0.00041)	ND (0.00040)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00090)	ND (0.00076)	ND (0.00075)	ND (0.00074)
Endrin ketone	NC	NC	NC	NC	ND (0.00062)	ND (0.00052)	ND (0.00052)	ND (0.00050)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00043)	ND (0.00037)	ND (0.00036)	ND (0.00035)
Heptachlor	0.042	29	0.14	0.38	ND (0.00058)	ND (0.00049)	ND (0.00049)	ND (0.00048)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00047)	ND (0.00040)	ND (0.00039)	ND (0.00038)
Methoxychlor	NC	NC	1.2	900	ND (0.00067)	ND (0.00057)	ND (0.00056)	ND (0.00055)
Toxaphene	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.010)	ND (0.0098)
2,4-D	NC	NC	NC	0.5	ND (0.0064)	ND (0.0050)	ND (0.0050)	ND (0.0052)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00078)	ND (0.00061)	ND (0.00060)	ND (0.00063)
2,4,5-T	NC	NC	NC	1.9	ND (0.0020)	ND (0.0015)	ND (0.0015)	ND (0.0016)
Dalapon	NC	NC	NC	NC	ND (0.0015)	ND (0.0012)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00090)	ND (0.00071)	ND (0.00070)	ND (0.00073)
Dichloroprop	NC	NC	NC	NC	ND (0.0052)	ND (0.0041)	ND (0.0040)	ND (0.0042)
Dinoseb	NC	NC	NC	NC	ND (0.0042)	ND (0.0033)	ND (0.0032)	ND (0.0034)
MCPA	NC	NC	NC	NC	ND (0.70)	ND (0.55)	ND (0.54)	ND (0.57)
MCPD	NC	NC	NC	NC	ND (0.36)	ND (0.28)	ND (0.28)	ND (0.29)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0015)	ND (0.0012)	0.0027	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.015)	ND (0.012)	ND (0.012)	ND (0.012)

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 SCO - Soil Cleanup Objective
 ND (0.00048) - Not Detected (Method Detection Limit)

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

TRC Sample ID/Depth RCH-3-ENV-1+4+2W COMP
 Date Sampled 09/05/12
 Lab Sample No. JB15520-9/9A
 Matrix Soil
 Depth Interval Composite

RCRA CHARACTERISTICS	Regulatory Level*	Results
Cyanide Reactivity (mg/kg)	250	<13
Sulfide Reactivity (mg/kg)	500	<130
Corrosivity as pH (su)	<2 or >12.5	8.35 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200
Paint Filter (ml/100g)	NC	<0.50 c
Moisture, Percent (%)	NC	21
Total Organic Halides (mg/kg)	NC	<25
Total Sulfur (mg/kg)	NC	NA

Legend

* United States Environmental Protection Agency (USEPA) Maximum Concentration of Contaminants for
 c = No free liquids. Detection limit raised due to limited volume.
 NC - No criterion
 NA - Not Analyzed
 <13 - Less than the reporting limit

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

TRC Sample No.: RCH-3-ENV-1+4+2W COMP
 Date Sampled: 09/05/12
 Lab Sample No.: JB15520-9A
 Laboratory: Accutest
 Matrix: Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)	Result
2-Methylphenol	200	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)
Pentachlorophenol	100	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)
Hexachloroethane	3	ND (0.0055)
Nitrobenzene	2	ND (0.0042)
Pyridine	5	ND (0.0032)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-3 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-3-ENV-1-WC	RCH-3-ENV-2W-WC	RCH-3-ENV-4-WC	RCH-3-ENV-1+4+2W COMP			
Lab Sample ID					JB15520-8	JB15630-7	JB15629-7	JB15520-9			
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/5/2012			
Matrix					Soil	Soil	Soil	Soil			
Units					mg/kg	mg/kg	mg/kg	mg/kg			
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result			
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.011)	ND (0.011)			
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA			
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.045)	ND (0.036)	ND (0.035)	ND (0.037)			
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.051)	ND (0.040)	ND (0.040)	ND (0.042)			
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.041)	ND (0.033)	ND (0.032)	ND (0.034)			
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.071)	ND (0.056)	ND (0.055)	ND (0.058)			
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.074)	ND (0.059)	ND (0.058)	ND (0.061)			
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.054)	ND (0.043)	ND (0.042)	ND (0.044)			
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.019)	ND (0.015)	ND (0.015)	ND (0.016)			
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.017)	ND (0.013)	ND (0.013)	ND (0.014)			
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.011)	ND (0.011)			
2-Chlorophenol	NC	NC	0.8	NC	ND (0.044)	ND (0.035)	ND (0.035)	ND (0.037)			
2-Methylnaphthalene	NC	NC	NC	36.4	0.0380	J	ND (0.019)	ND (0.019)	0.0290		
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.050)	ND (0.040)	ND (0.039)	ND (0.041)			
2-Nitroaniline	NC	NC	NC	0.4	ND (0.019)	ND (0.015)	ND (0.015)	ND (0.016)			
2-Nitrophenol	NC	NC	7	0.3	ND (0.047)	ND (0.037)	ND (0.037)	ND (0.038)			
3&4-Methylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.044)	ND (0.044)	ND (0.046)			
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.011)	ND (0.0089)	ND (0.0088)	ND (0.0092)			
3-Nitroaniline	NC	NC	NC	0.5	ND (0.018)	ND (0.014)	ND (0.014)	ND (0.015)			
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.054)	ND (0.043)	ND (0.042)	ND (0.044)			
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.016)	ND (0.013)	ND (0.013)	ND (0.013)			
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.044)	ND (0.035)	ND (0.034)	ND (0.036)			
4-Chloroaniline	NC	NC	NC	0.22	ND (0.014)	ND (0.011)	ND (0.011)	ND (0.012)			
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.010)	ND (0.011)			
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA			
4-Nitroaniline	NC	NC	NC	NC	ND (0.017)	ND (0.014)	ND (0.013)	ND (0.014)			
4-Nitrophenol	NC	NC	7	0.3	ND (0.074)	ND (0.059)	ND (0.058)	ND (0.061)			
Acenaphthene	20	1,000	20	98	0.0261	J	ND (0.010)	0.0191	ND (0.011)		
Acenaphthylene	100	1,000	NC	107	ND (0.014)	ND (0.011)	ND (0.011)	ND (0.012)			
Acetophenone	NC	NC	NC	NC	ND (0.0077)	ND (0.0061)	ND (0.0061)	ND (0.0064)			
Anthracene	100	1,000	NC	1,000	0.0277	J	ND (0.012)	0.0622	ND (0.013)		
Atrazine	NC	NC	NC	NC	ND (0.0087)	ND (0.0069)	ND (0.0068)	ND (0.0071)			
Benzaldehyde	NC	NC	NC	NC	ND (0.010)	ND (0.0080)	ND (0.0079)	ND (0.0083)			
Benzo(a)anthracene	1	11	NC	1	0.1630	0.1410	0.1500	0.0829			
Benzo(a)pyrene	1	1	2.6	22	0.1850	0.1210	0.1250	0.0829			
Benzo(b)fluoranthene	1	11	NC	2	0.1540	0.1640	0.1400	0.0773			
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.1510	0.1020	0.1070	0.0619			
Benzo(k)fluoranthene	1	110	NC	2	0.1580	0.0803	0.0987	0.0707			
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.018)	ND (0.014)	ND (0.014)	ND (0.015)			
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.013)	ND (0.010)	ND (0.010)	ND (0.011)			
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.039)	ND (0.031)	ND (0.030)	ND (0.032)			
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.025)	ND (0.020)	ND (0.020)	ND (0.021)			
Caprolactam	NC	NC	NC	NC	ND (0.014)	ND (0.011)	ND (0.011)	ND (0.011)			
Carbazole	NC	NC	NC	NC	ND (0.020)	ND (0.016)	0.0233	J	ND (0.017)		
Chrysene	1	110	NC	1	0.1930	0.1810	0.1560	0.1090			
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0440	0.0305	J	0.0314	J	0.0219	J
Dibenzofuran	7	1,000	NC	210	ND (0.013)	ND (0.010)	ND (0.010)	ND (0.011)			
Diethyl phthalate	NC	NC	100	7	ND (0.015)	ND (0.012)	ND (0.012)	ND (0.012)			
Dimethyl phthalate	NC	NC	200	27	0.0769	J	0.0625	J	0.0724	0.0543	J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0098)	ND (0.0077)	ND (0.0077)	ND (0.0081)			
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.021)	ND (0.017)	ND (0.017)	ND (0.018)			
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0051)	ND (0.0040)	ND (0.0040)	ND (0.0042)			
Fluoranthene	100	1,000	NC	1,000	0.2390	0.1490	0.3680	0.1170			
Fluorene	30	1,000	30	386	0.0250	J	ND (0.011)	0.0176	J	ND (0.012)	
Hexachlorobenzene	0	12	NC	3	ND (0.014)	ND (0.011)	ND (0.011)	ND (0.012)			
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.012)	ND (0.0097)	ND (0.0096)	ND (0.010)			
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.045)	ND (0.036)	ND (0.035)	ND (0.037)			
Hexachloroethane	NC	NC	NC	NC	ND (0.012)	ND (0.0097)	ND (0.0096)	ND (0.010)			
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.1270	0.0945	0.0908	0.0548			
Isophorone	NC	NC	NC	4	ND (0.012)	ND (0.0094)	ND (0.0093)	ND (0.0098)			
Naphthalene	12	1,000	NC	12	ND (0.012)	ND (0.0095)	ND (0.0094)	ND (0.0099)			
Nitrobenzene	NC	140	40	0.17	ND (0.013)	ND (0.010)	ND (0.010)	ND (0.010)			
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.011)	ND (0.0085)	ND (0.0084)	ND (0.0088)			
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.026)	ND (0.021)	ND (0.021)	ND (0.022)			
Pentachlorophenol	1	55	0.8	1	ND (0.075)	ND (0.060)	ND (0.059)	ND (0.062)			
Phenanthrene	100	1,000	NC	1,000	0.0965	0.0740	0.2610	0.0462			
Phenol	0.33	1,000	30	0.33	ND (0.046)	ND (0.037)	ND (0.036)	ND (0.038)			
Pyrene	100	1,000	NC	1,000	0.1930	0.1710	0.3440	0.1020			
Total SVOCs	NC	NC	NC	NC	1.70	1.20	1.72	0.81			

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
NA - Not Analyzed
ND (0.013) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-1-WC	RCH-3-ENV-1-WC/2	RCH-3-ENV-1-WC/4	RCH-3-ENV-1-WC/6
Lab Sample ID					JB15520-8	JB15520-4	JB15520-5	JB15520-6
Sampling Date					9/5/2012	9/5/2012	9/5/2012	9/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	NA	ND (2.1)	19.5	ND (2.1)

Notes:
 NC - No Criterion
 ND (2.1) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-1-WC/8	RCH-3-ENV-2W-WC	RCH-3-ENV-2W-WC/2	RCH-3-ENV-2W-WC/4
Lab Sample ID					JB15520-7	JB15630-7	JB15630-1	JB15630-2
Sampling Date					9/5/2012	9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	9.29	NA	40.8	ND (2.0)

Notes:
 NC - No Criterion
 ND (2.1) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-2W-WC/6	RCH-3-ENV-2W-WC/8	RCH-3-ENV-4-WC	RCH-3-ENV-4-WC/2
Lab Sample ID					JB15630-3	JB15630-4	JB15629-7	JB15629-1
Sampling Date					9/4/2012	9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	16	ND (2.0)	NA	34.5

Notes:
 NC - No Criterion
 ND (2.1) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-3 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-3-ENV-4-WC/4	RCH-3-ENV-4-WC/6	RCH-3-ENV-4-WC/8
Lab Sample ID					JB15629-2	JB15629-3	JB15629-4
Sampling Date					9/4/2012	9/4/2012	9/4/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	11.9

Notes:
 NC - No Criterion
 ND (2.1) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5	RCH-4H-ENV-4/3.5
Sample ID/Depth					JAB6430-2	JAB6430-3	JAB9714-2	JAB9714-3	JAB9865-1
Lab Sample ID					9/15/2011	9/15/2011	10/20/2011	10/20/2011	10/21/2011
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	398	410	292	321	290
Solids, Percent (%)	NC	NC	NC	NC	85.7	83.4	86	83	84.3
pH (su)	NC	NC	NC	NC	8.89	7.75	7.59	6.95	7.28

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A (Duplicate)	RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	
Sample ID/Depth					JAB8865-2	JAB8559-4	JAB8559-5	JAB8559-6	JAB0403-2	
Lab Sample ID					10/21/2011	9/19/2011	9/19/2011	9/19/2011	10/27/2011	
Sampling Date					Soil	Soil	Soil	Soil	Soil	
Matrix					Result	Result	Result	Result	Result	
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
	Redox Potential Vs H2 (mv)	NC	NC	NC	NC	305	334	329	211	253
	Solids, Percent (%)	NC	NC	NC	NC	80.7	84.5	84.7	84.6	84.6
	pH (su)	NC	NC	NC	NC	6.59	6.32	6.57	7.03	8.26

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5	RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5
Sample ID/Depth					JA90403-3	JA90574-3	JA90574-4	JA90574-5	JA90025-1
Lab Sample ID					10/27/2011	10/28/2011	10/28/2011	10/28/2011	10/24/2011
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
	NC	NC	NC	NC	270	287	297	307	393
	NC	NC	NC	NC	81.9	79.1	79.1	81.3	87
	NC	NC	NC	NC	7.59	7.85	7.5	7.1	8.01

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4H-ENV-8W/3.5A (Dup)	RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Sample ID/Depth					JA90025-2	JA90025-3	JA90084-3	JA90084-4	JA90084-1
Lab Sample ID					10/24/2011	10/24/2011	10/31/2011	10/31/2011	11/1/2011
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
	NC	NC	NC	NC	386	390	354	319	328
	NC	NC	NC	NC	86.6	85.1	85.4	86.6	86.3
	NC	NC	NC	NC	7.97	8.26	7.05	8.33	8.01
Redox Potential Vs H2 (mv)									
Solids, Percent (%)									
pH (su)									

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2	RCH-4-ENV-20W/7
Sample ID/Depth					JA30804-2	JB3917-1	JB3917-2	JB3809-9	JB3809-10
Lab Sample ID					11/1/2011	4/11/2012	4/11/2012	4/10/2012	4/10/2012
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	308	177	178	299	246
Solids, Percent (%)	NC	NC	NC	NC	85	74.1	83	90.1	86.3
pH (su)	NC	NC	NC	NC	8.5	7.5	7.73	8.04	7.01

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3	RCH-4-ENV-22/6	RCH-4-ENV-23/1
Lab Sample ID					JB4278-4	JB4278-5	JB3652-1	JB3652-2	JB3652-3
Sampling Date					4/16/2012	4/16/2012	4/6/2012	4/6/2012	4/6/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Result	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	160	254	301	263	407
Solids, Percent (%)	NC	NC	NC	NC	86.2	79.9	69.7	84.2	85.1
pH (su)	NC	NC	NC	NC	10.53	9.21	7.04	7.17	7.6

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-23/5	RCH-4-ENV-24/1	RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7
Lab Sample ID					JB3652-3	JB3809-1	JB3809-2	JB3744-1	JB3744-2
Sampling Date					4/6/2012	4/10/2012	4/10/2012	4/9/2012	4/9/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Result	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
NC	NC	NC	NC	Redox Potential Vs H2 (mv)	254	305	231	319	249
NC	NC	NC	NC	Solids, Percent (%)	84.1	94.9	84.9	75.9	79.7
NC	NC	NC	NC	pH (su)	7.36	8.59	6.84	6.84	6.77

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-26/1	RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
Lab Sample ID					JB3744-9	JB3744-10	JB3514-9	JB3514-10	JB3410-8
Sampling Date					4/9/2012	4/9/2012	4/5/2012	4/5/2012	4/4/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Result	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	309	234	302	301	299
Solids, Percent (%)	NC	NC	NC	NC	84.4	77.1	79.1	76.9	85.2
pH (su)	NC	NC	NC	NC	8.34	7.34	6.82	7.18	7.49

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1	RCH-4-ENV-30/5
Lab Sample ID					JB3410-9	JB3410-1	JB3410-2	JB3514-1	JB3514-2
Sampling Date					4/4/2012	4/4/2012	4/4/2012	4/5/2012	4/5/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Result	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	305	278	300	266	270
Solids, Percent (%)	NC	NC	NC	NC	83.8	85.8	79.8	87.2	84.3
pH (su)	NC	NC	NC	NC	7.47	7.11	7.29	7.38	7.42

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1	RCH-4-ENV-32/6	RCH-4-ENV-33W/3
Lab Sample ID					JB3229-1	JB3229-2	JB3229-8	JB3229-9	JB3142-1
Sampling Date					4/3/2012	4/3/2012	4/3/2012	4/3/2012	4/2/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Result	Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	155	243	400	382	310
Solids, Percent (%)	NC	NC	NC	NC	86.4	87.1	89	88.9	92.6
pH (su)	NC	NC	NC	NC	10.23	8.57	6.96	7.19	7.14

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A	RCH-4-ENV-34/2	RCH-4-ENV-34/5
Sample ID/Depth					JB3142-2	JB3142-7	JB3142-10	JB3142-11
Lab Sample ID					4/2/2012	4/2/2012	4/2/2012	4/2/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
	NC	NC	NC	NC	280	311	316	313
	NC	NC	NC	NC	86.4	85.1	88.1	84
	NC	NC	NC	NC	7.5	7.95	7.47	7.49

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5
Lab Sample ID					JA86430-2/2R	JA86430-3	JA89714-2	JA89714-3
Sampling Date					9/15/2011	9/15/2011	10/20/2011	10/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6990	3680	3630	3730
Antimony	NC	NC	12	NC	<2.3	<2.4	<2.3	<2.4
Arsenic	13	16	13	16	10.1	12.9	4.3	5.4
Barium	350	10,000	433	820	115	<24	<23	<24
Beryllium	7.2	2,700	10	47	0.38	0.38	0.26	0.41
Cadmium	2.5	60	4	7.5	<0.57	<0.59	<0.59	<0.59
Calcium	NC	NC	10000	NC	4820	<590	<590	<590
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.5	8.8	6.1	10.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.92(0.97)	<0.48	<0.47	<0.48
Cobalt	NC	NC	20	NC	<5.7	<5.9	<5.9	<5.9
Copper	50	10,000	50	1,720	39.7	5	7.9	6.2
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	14000	12000	9730	14500
Lead	63	3,900	63	450	64.2	4.1	3	2.7
Magnesium	NC	NC	NC	NC	2340	852	788	830
Manganese	1,600	10,000	1600	2,000	82.8	38.5	49.3	39
Mercury (Total)	0.18	5.7	0.18	0.73	0.14	<0.037	<0.037	<0.039
Nickel	30	10,000	30	130	17.1	6.1	<4.7	<4.7
Potassium	NC	NC	NC	NC	<1100	<1200	<1200	1560
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.3	<2.4
Silver	2	6,800	2	8.3	<0.57	<0.59	<0.59	<0.59
Sodium	NC	NC	NC	NC	<1100	<1200	<1200	<1200
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	28.2	16.7	13.1	15.8
Zinc	109	10,000	109	2,480	125	35.2	18.9	22.6

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A (Duplicate)
Lab Sample ID					JA89865-1/1R	JA89865-2/2R	JA86559-4/4R	JA86559-5/5R
Sampling Date					10/21/2011	10/21/2011	9/19/2011	9/19/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	5040	7370	3650	4480
Antimony	NC	NC	12	NC	<2.4	<2.4	<2.3	<2.4
Arsenic	13	16	13	16	4.9	5.6	4.3	4.5
Barium	350	10,000	433	820	<24	<24	<23	<24
Beryllium	7.2	2,700	10	47	0.42	0.46	0.35	0.37
Cadmium	2.5	60	4	7.5	<0.60	<0.60	<0.59	<0.59
Calcium	NC	NC	10000	NC	773	<600	<590	652
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	10.6	13.4	9.4	9.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	0.77(<0.50)	0.5(<0.47)	<0.47(<0.47)
Cobalt	NC	NC	20	NC	<6.0	<6.0	<5.9	<5.9
Copper	50	10,000	50	1,720	25.4	8.5	12.3	19.7
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	12700	15500	12300	13700
Lead	63	3,900	63	450	6.4	4.6	4.4	6.7
Magnesium	NC	NC	NC	NC	1050	1080	804	990
Manganese	1,600	10,000	1600	2,000	48	40.3	68.8	96.8
Mercury (Total)	0.18	5.7	0.18	0.73	<0.039	<0.041	<0.038	0.067
Nickel	30	10,000	30	130	5	5	<4.7	5.1
Potassium	NC	NC	NC	NC	<1200	1650	<1200	<1200
Selenium	3.9	6,800	3.9	4	<2.4	<2.4	<2.3	<2.4
Silver	2	6,800	2	8.3	<0.60	<0.60	<0.59	<0.59
Sodium	NC	NC	NC	NC	<1200	<1200	<1200	<1200
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	18.4	19	17.9	19.4
Zinc	109	10,000	109	2,480	22.2	21.6	19.7	25.3

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5
Lab Sample ID					JA86559-6/6R	JA90403-2/2R	JA90403-3/3R	JA90574-3/3R
Sampling Date					9/19/2011	10/27/2011	10/27/2011	10/28/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6340	3950	5020	3770
Antimony	NC	NC	12	NC	<2.3	<2.4	<2.5	<1.9
Arsenic	13	16	13	16	4.5	5.4	5.4	4.6
Barium	350	10,000	433	820	<23	<24	<25	<19
Beryllium	7.2	2,700	10	47	0.35	0.35	0.3	0.37
Cadmium	2.5	60	4	7.5	<0.58	<0.61	<0.62	<0.49
Calcium	NC	NC	10000	NC	<580	<610	<620	<490
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	11	8.4	10.4	8.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	1.3 (<0.47)	<0.49(<0.49)	0.91(<0.51)
Cobalt	NC	NC	20	NC	<5.8	<6.1	<6.2	<4.9
Copper	50	10,000	50	1,720	5.4	12.4	6.6	5.2
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	12900	12400	13100	12100
Lead	63	3,900	63	450	4	5.3	3.4	2.4
Magnesium	NC	NC	NC	NC	991	889	831	865
Manganese	1,600	10,000	1600	2,000	49.4	96.4	104	180
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	<0.037	<0.039	<0.040
Nickel	30	10,000	30	130	5.5	5.3	<4.9	6.7
Potassium	NC	NC	NC	NC	<1200	<1200	<1200	<970
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.5	<1.9
Silver	2	6,800	2	8.3	<0.58	<0.61	<0.62	<0.49
Sodium	NC	NC	NC	NC	<1200	<1200	<1200	<970
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<0.97
Vanadium	NC	NC	39	NC	17.8	14.9	15.4	14.5
Zinc	109	10,000	109	2,480	23.4	25.3	14.8	25.8

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

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result above SCO.

Color representing

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Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5	RCH-4H-ENV-8W/3.5A (Dup)
Lab Sample ID					JA90574-4/4R	JA90574-5/5R	JA90025-1/1R	JA90025-2/2R
Sampling Date					10/28/2011	10/28/2011	10/24/2011	10/24/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	4440	6330	15700	15700
Antimony	NC	NC	12	NC	<2.0	<2.5	<2.2	<2.4
Arsenic	13	16	13	16	6.1	6.2	3.1	3
Barium	350	10,000	433	820	<20	<25	149	129
Beryllium	7.2	2,700	10	47	0.41	0.28	1	1
Cadmium	2.5	60	4	7.5	<0.50	<0.63	<0.54	<0.60
Calcium	NC	NC	10000	NC	<500	<630	19600	20700
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	9.9	13.7	24.1	23.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	1.2(<0.51)	0.6(<0.49)	<0.46(<0.46)	0.78(<0.46)
Cobalt	NC	NC	20	NC	5.2	<6.3	10.4	10.3
Copper	50	10,000	50	1,720	5.3	5.6	18.1	18.6
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	13600	17800	23800	23800
Lead	63	3,900	63	450	3.2	3.6	12.2	12.1
Magnesium	NC	NC	NC	NC	926	992	7690	7680
Manganese	1,600	10,000	1600	2,000	255	66.4	567	593
Mercury (Total)	0.18	5.7	0.18	0.73	<0.040	<0.040	<0.037	<0.036
Nickel	30	10,000	30	130	7.3	5.1	24.7	23.9
Potassium	NC	NC	NC	NC	<1000	<1300	4650	4820
Selenium	3.9	6,800	3.9	4	<2.0	<2.5	<2.2	<2.4
Silver	2	6,800	2	8.3	<0.50	<0.63	<0.54	<0.60
Sodium	NC	NC	NC	NC	<1000	<1300	<1100	<1200
Thallium	NC	NC	5	NC	<1.0	<1.3	<1.1	<1.2
Vanadium	NC	NC	39	NC	15.3	19.4	30.2	31.6
Zinc	109	10,000	109	2,480	28.5	16.3	55.7	55.3

Notes:

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<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Lab Sample ID					JA90025-3/3R	JA90684-3/3R	JA90684-4/4R	JA90804-1
Sampling Date					10/24/2011	10/31/2011	10/31/2011	11/1/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	13200	8450	11900	12200
Antimony	NC	NC	12	NC	<2.3	<2.4	<2.4	<2.4
Arsenic	13	16	13	16	2.4	7.7	2.5	2.8
Barium	350	10,000	433	820	102	24.2	86.3	132
Beryllium	7.2	2,700	10	47	0.95	0.8	0.9	0.95
Cadmium	2.5	60	4	7.5	<0.56	<0.59	<0.59	<0.59
Calcium	NC	NC	10000	NC	20200	<590	12400	2160
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	21.7	15.4	25.1	23.6
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	<0.47(0.66)	0.85(<0.46)	<0.46(<0.46)
Cobalt	NC	NC	20	NC	10.2	8.1	11.3	9.8
Copper	50	10,000	50	1,720	15.3	11.3	12.1	18.5
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	21900	21300	25700	24100
Lead	63	3,900	63	450	11.6	5.6	12.6	12.6
Magnesium	NC	NC	NC	NC	7400	2080	6300	6070
Manganese	1,600	10,000	1600	2,000	546	177	523	604
Mercury (Total)	0.18	5.7	0.18	0.73	<0.039	<0.037	<0.038	<0.035
Nickel	30	10,000	30	130	25.2	10.6	27.9	28.5
Potassium	NC	NC	NC	NC	3840	2080	3200	3320
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.4	<2.4
Silver	2	6,800	2	8.3	<0.56	<0.59	<0.59	<0.59
Sodium	NC	NC	NC	NC	<1100	<1200	<1200	<1200
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	24.3	24.2	27.3	26
Zinc	109	10,000	109	2,480	54	43.4	58.8	56.6

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

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NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth		RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2			
Lab Sample ID		JA90804-2	JB3917-1	JB3917-2	JB3809-9			
Sampling Date		11/1/2011	4/11/2012	4/11/2012	4/10/2012			
Matrix		Soil	Soil	Soil	Soil			
Units		mg/kg	mg/kg	mg/kg	mg/kg			
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	12900	7020	3870	5810
Antimony	NC	NC	12	NC	<2.4	<2.7	<2.5	<2.2
Arsenic	13	16	13	16	<2.4	21.1	8.2	15.3
Barium	350	10,000	433	820	99.6	157	87.4	60
Beryllium	7.2	2,700	10	47	1	0.39	<0.25	0.74
Cadmium	2.5	60	4	7.5	<0.61	1.3	0.74	<0.54
Calcium	NC	NC	10000	NC	2240	12200	11800	8920
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	29.4	53.9	23.5	18.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	<0.54	<0.48	<0.44
Cobalt	NC	NC	20	NC	11.4	<6.8	<6.3	5.4
Copper	50	10,000	50	1,720	13.6	93.3	63.3	60.6
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	27100	14200	14600	13000
Lead	63	3,900	63	450	13.4	209	129	70.6
Magnesium	NC	NC	NC	NC	6750	4260	4750	5380
Manganese	1,600	10,000	1600	2,000	571	139	511	181
Mercury (Total)	0.18	5.7	0.18	0.73	<0.036	0.98	0.89	0.13
Nickel	30	10,000	30	130	31.1	43.6	25.3	27.7
Potassium	NC	NC	NC	NC	3340	<1400	<1300	<1100
Selenium	3.9	6,800	3.9	4	<2.4	<2.7	<2.5	<2.2
Silver	2	6,800	2	8.3	<0.61	<0.68	<0.63	0.98
Sodium	NC	NC	NC	NC	<1200	<1400	<1300	<1100
Thallium	NC	NC	5	NC	<1.2	<1.4	<1.3	<1.1
Vanadium	NC	NC	39	NC	26.2	46.6	39	22.1
Zinc	109	10,000	109	2,480	62.5	378	253	180

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3
Lab Sample ID					JB3809-10	JB4278-4/4T	JB4278-5/5T	JB3652-1/1R
Sampling Date					4/10/2012	4/16/2012	4/16/2012	4/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	9430	7900	6480	6430
Antimony	NC	NC	12	NC	<2.3	<2.4	2.7	<2.8
Arsenic	13	16	13	16	5.9	13.4	18.5	24.9
Barium	350	10,000	433	820	42.7	214	369	680
Beryllium	7.2	2,700	10	47	0.64	0.6	0.68	0.58
Cadmium	2.5	60	4	7.5	<0.57	0.84	0.86	0.84
Calcium	NC	NC	10000	NC	2690	25100	11700	5670
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	17.1	26.6	26.8	23.4
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46	<0.46(<0.46)	0.51(<0.50)	<0.57(<0.57)
Cobalt	NC	NC	20	NC	<5.7	<5.9	8	<7.0
Copper	50	10,000	50	1,720	24.2	120	133	129
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	17700	21200	30200	19400
Lead	63	3,900	63	450	14.6	185	193	247
Magnesium	NC	NC	NC	NC	3780	3940	1790	2670
Manganese	1,600	10,000	1600	2,000	703	186	201	197
Mercury (Total)	0.18	5.7	0.18	0.73	0.087	0.31	0.34	0.42
Nickel	30	10,000	30	130	15.4	87.4	96.4	52.8
Potassium	NC	NC	NC	NC	1400	<1200	<1300	<1400
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.5	<2.8
Silver	2	6,800	2	8.3	1.4	1.3	0.87	<0.70
Sodium	NC	NC	NC	NC	<1100	<1200	<1300	<1400
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.3	<1.4
Vanadium	NC	NC	39	NC	21.4	25.4	27.9	38.1
Zinc	109	10,000	109	2,480	50.1	259	307	189

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-22/6	RCH-4-ENV-23/1	RCH-4-ENV-23/5	RCH-4-ENV-24/1
Lab Sample ID					JB3652-2/2R	JB3652-8/8R	JB3652-9/9R	JB3809-1
Sampling Date					4/6/2012	4/6/2012	4/6/2012	4/10/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	5530	9570	6210	5380
Antimony	NC	NC	12	NC	<2.3	<2.2	<2.2	<2.1
Arsenic	13	16	13	16	4	40.1	4.2	3.1
Barium	350	10,000	433	820	<23	223	<22	27.5
Beryllium	7.2	2,700	10	47	0.3	0.65	0.29	0.29
Cadmium	2.5	60	4	7.5	<0.58	0.66	<0.55	<0.53
Calcium	NC	NC	10000	NC	<580	5310	<550	22600
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	10.4	16	10.7	15
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.48(<0.48)	<0.47(<0.47)	0.57(<0.48)	0.53
Cobalt	NC	NC	20	NC	<5.8	<5.4	<5.5	<5.3
Copper	50	10,000	50	1,720	3.9	54.8	10.5	24.3
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	12200	22600	12100	12300
Lead	63	3,900	63	450	3.9	97.3	4.6	35.1
Magnesium	NC	NC	NC	NC	1030	2370	1150	13200
Manganese	1,600	10,000	1600	2,000	43.3	153	44.2	121
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	0.48	<0.039	0.16
Nickel	30	10,000	30	130	4.9	22.2	6.1	14.9
Potassium	NC	NC	NC	NC	<1200	<1100	<1100	<1100
Selenium	3.9	6,800	3.9	4	<2.3	<2.2	<2.2	<2.1
Silver	2	6,800	2	8.3	<0.58	<0.54	<0.55	1.1
Sodium	NC	NC	NC	NC	<1200	<1100	<1100	<1100
Thallium	NC	NC	5	NC	<1.2	<1.1	<1.1	<1.1
Vanadium	NC	NC	39	NC	15.7	31.2	15.7	21.7
Zinc	109	10,000	109	2,480	17.8	113	23.5	60.8

Notes:

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<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

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Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
Lab Sample ID					JB3809-2	JB3744-1/1R	JB3744-2/2R	JB3744-9/9R
Sampling Date					4/10/2012	4/9/2012	4/9/2012	4/9/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	8180	7950	3660	6220
Antimony	NC	NC	12	NC	<2.3	<2.6	<2.4	<2.3
Arsenic	13	16	13	16	4.4	13.6	6.5	25.1
Barium	350	10,000	433	820	<23	325	<24	146
Beryllium	7.2	2,700	10	47	0.47	0.68	0.46	0.55
Cadmium	2.5	60	4	7.5	<0.58	0.82	<0.60	<0.57
Calcium	NC	NC	10000	NC	<580	2490	<600	33000
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12.4	31.9	8.8	14.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	2.7 (1.3)	<0.50(<0.50)	<0.47(<0.47)
Cobalt	NC	NC	20	NC	<5.8	<6.5	<6.0	<5.7
Copper	50	10,000	50	1,720	6.7	213	3.2	64.5
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	12600	16800	14300	21100
Lead	63	3,900	63	450	5.6	198	2.7	169
Magnesium	NC	NC	NC	NC	1180	1630	<600	18100
Manganese	1,600	10,000	1600	2,000	41.8	117	37	227
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	0.38	<0.039	0.37
Nickel	30	10,000	30	130	6.3	20.2	<4.8	15.7
Potassium	NC	NC	NC	NC	<1200	1460	<1200	1190
Selenium	3.9	6,800	3.9	4	<2.3	<2.6	<2.4	<2.3
Silver	2	6,800	2	8.3	0.83	0.9	<0.60	0.83
Sodium	NC	NC	NC	NC	<1200	<1300	<1200	<1100
Thallium	NC	NC	5	NC	<1.2	<1.3	<1.2	<1.1
Vanadium	NC	NC	39	NC	18.6	30.2	15	24.9
Zinc	109	10,000	109	2,480	22.9	194	21.3	180

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
Lab Sample ID					JB3744-10/10R	JB3514-9	JB3514-10	JB3410-8/8R
Sampling Date					4/9/2012	4/5/2012	4/5/2012	4/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6330	5620	4020	4640
Antimony	NC	NC	12	NC	<2.7	<2.6	<2.5	<2.4
Arsenic	13	16	13	16	7.8	15.9	5.4	6
Barium	350	10,000	433	820	<27	136	<25	35
Beryllium	7.2	2,700	10	47	0.48	0.51	0.34	0.45
Cadmium	2.5	60	4	7.5	<0.68	<0.65	<0.64	<0.61
Calcium	NC	NC	10000	NC	999	1730	<640	758
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.4	14.2	8.5	11.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.52(<0.52)	<0.51	<0.52	<0.47(<0.47)
Cobalt	NC	NC	20	NC	<6.8	<6.5	<6.4	<6.1
Copper	50	10,000	50	1,720	9.2	81.5	7.4	23.3
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	15800	12700	11300	13200
Lead	63	3,900	63	450	14.5	65.1	3.7	13.9
Magnesium	NC	NC	NC	NC	917	894	<640	907
Manganese	1,600	10,000	1600	2,000	52.7	263	34.7	79.5
Mercury (Total)	0.18	5.7	0.18	0.73	<0.041	0.27	<0.042	<0.039
Nickel	30	10,000	30	130	5.7	15.4	<5.1	6.2
Potassium	NC	NC	NC	NC	<1400	<1300	<1300	<1200
Selenium	3.9	6,800	3.9	4	<2.7	<2.6	<2.5	<2.4
Silver	2	6,800	2	8.3	<0.68	<0.65	<0.64	<0.61
Sodium	NC	NC	NC	NC	<1400	<1300	<1300	<1200
Thallium	NC	NC	5	NC	<1.4	<1.3	<1.3	<1.2
Vanadium	NC	NC	39	NC	18.2	24.5	14.6	16.8
Zinc	109	10,000	109	2,480	27.8	96.1	20	40.3

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
Lab Sample ID					JB3410-9/9R	JB3410-1/1R	JB3410-2/2R	JB3514-1
Sampling Date					4/4/2012	4/4/2012	4/4/2012	4/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	4900	6650	6080	16300
Antimony	NC	NC	12	NC	<2.5	<2.1	<2.4	<2.3
Arsenic	13	16	13	16	5.3	23.8	4.8	3.6
Barium	350	10,000	433	820	<25	98.4	24.5	126
Beryllium	7.2	2,700	10	47	0.47	0.48	0.48	1.1
Cadmium	2.5	60	4	7.5	<0.62	<0.53	<0.60	<0.57
Calcium	NC	NC	10000	NC	<620	2530	622	2170
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12	17.8	14.8	27.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.48(<0.48)	<0.47(0.87)	<0.50(<0.50)	<0.46
Cobalt	NC	NC	20	NC	7.9	<5.3	<6.0	16.2
Copper	50	10,000	50	1,720	7.3	30.7	3.9	15.9
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	15100	14600	15000	28200
Lead	63	3,900	63	450	4.1	76.7	5.2	15.6
Magnesium	NC	NC	NC	NC	1240	2150	1430	6230
Manganese	1,600	10,000	1600	2,000	153	224	51.2	855
Mercury (Total)	0.18	5.7	0.18	0.73	<0.039	0.25	<0.038	<0.035
Nickel	30	10,000	30	130	5.2	13.2	5.9	29.9
Potassium	NC	NC	NC	NC	1450	<1100	1840	3760
Selenium	3.9	6,800	3.9	4	<2.5	<2.1	<2.4	<2.3
Silver	2	6,800	2	8.3	<0.62	<0.53	<0.60	<0.57
Sodium	NC	NC	NC	NC	<1200	<1100	<1200	<1100
Thallium	NC	NC	5	NC	<1.2	<1.1	<1.2	<1.1
Vanadium	NC	NC	39	NC	18.3	28.3	24.3	33.1
Zinc	109	10,000	109	2,480	26.2	109	22	76.8

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
Lab Sample ID					JB3514-2	JB3229-1/1R	JB3229-2/2R	JB3229-8/8R
Sampling Date					4/5/2012	4/3/2012	4/3/2012	4/3/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	13600	8410	11800	7310
Antimony	NC	NC	12	NC	<2.5	4.3	<2.3	<2.3
Arsenic	13	16	13	16	<2.5	13	<2.3	9.2
Barium	350	10,000	433	820	132	93.6	103	152
Beryllium	7.2	2,700	10	47	0.97	3.3	0.98	0.57
Cadmium	2.5	60	4	7.5	<0.62	<0.59	<0.57	0.76
Calcium	NC	NC	10000	NC	2510	41100	28400	4130
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	23.4	30.8	24.3	30.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	<0.46(<0.46)	<0.46(<0.46)	<0.45 (0.49)
Cobalt	NC	NC	20	NC	10.5	23	9.7	6.5
Copper	50	10,000	50	1,720	14.1	932	12.1	38
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	23800	18300	23900	16300
Lead	63	3,900	63	450	12.8	259	11.8	64.5
Magnesium	NC	NC	NC	NC	5700	13500	6210	3380
Manganese	1,600	10,000	1600	2,000	564	272	690	212
Mercury (Total)	0.18	5.7	0.18	0.73	<0.037	0.32	<0.037	0.12
Nickel	30	10,000	30	130	26.1	248	25.8	26.5
Potassium	NC	NC	NC	NC	3430	1780	3370	<1200
Selenium	3.9	6,800	3.9	4	<2.5	<2.4	<2.3	<2.3
Silver	2	6,800	2	8.3	<0.62	2.9	<0.57	1
Sodium	NC	NC	NC	NC	<1200	<1200	<1100	<1200
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.1	<1.2
Vanadium	NC	NC	39	NC	29.1	27.5	28	29.6
Zinc	109	10,000	109	2,480	61.7	1500	50.6	793

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-32/6	RCH-4-ENV-33W/3	RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A
Lab Sample ID					JB3229-9/9R	JB3142-1/1R	JB3142-2/2R	JB3142-7/7R
Sampling Date					4/3/2012	4/2/2012	4/2/2012	4/2/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	9610	4130	4250	6350
Antimony	NC	NC	12	NC	<2.2	<2.1	<2.3	<2.4
Arsenic	13	16	13	16	4.9	6.2	5.1	5
Barium	350	10,000	433	820	44.5	65.2	<23	50
Beryllium	7.2	2,700	10	47	0.8	0.41	0.56	0.7
Cadmium	2.5	60	4	7.5	<0.56	<0.53	<0.57	<0.60
Calcium	NC	NC	10000	NC	770	695	<570	1020
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	23.2	9.9	10.3	12.9
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.45 (<0.45)	<0.43(<0.43)	<0.46(<0.46)	<0.47(<0.47)
Cobalt	NC	NC	20	NC	7.7	<5.3	7.4	6.5
Copper	50	10,000	50	1,720	9	17.9	4.2	6.6
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	22600	12800	13300	16600
Lead	63	3,900	63	450	8.4	28.4	4.7	5.5
Magnesium	NC	NC	NC	NC	3050	894	978	1940
Manganese	1,600	10,000	1600	2,000	238	133	262	357
Mercury (Total)	0.18	5.7	0.18	0.73	<0.035	0.09	<0.034	<0.036
Nickel	30	10,000	30	130	16.4	6.2	6.6	10.4
Potassium	NC	NC	NC	NC	2230	<1100	1270	1770
Selenium	3.9	6,800	3.9	4	<2.2	<2.1	<2.3	<2.4
Silver	2	6,800	2	8.3	<0.56	0.64	0.73	0.78
Sodium	NC	NC	NC	NC	<1100	<1100	<1100	<1200
Thallium	NC	NC	5	NC	<1.1	<1.1	<1.1	<1.2
Vanadium	NC	NC	39	NC	25.7	21.9	16.5	20.7
Zinc	109	10,000	109	2,480	65.7	44.8	27	34.1

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-34/2	RCH-4-ENV-34/5
Lab Sample ID					JB3142-10/10R	JB3142-11/11R
Sampling Date					4/2/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aluminum	NC	NC	10000	NC	11800	9570
Antimony	NC	NC	12	NC	<2.3	<2.3
Arsenic	13	16	13	16	7.6	37.3
Barium	350	10,000	433	820	59.9	2200
Beryllium	7.2	2,700	10	47	0.92	0.62
Cadmium	2.5	60	4	7.5	<0.57	0.97
Calcium	NC	NC	10000	NC	1480	12500
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	20.9	47.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.45(<0.45)	<0.48(2.3)
Cobalt	NC	NC	20	NC	7.6	<5.8
Copper	50	10,000	50	1,720	36	103
Cyanide (Total)	27	10,000	NC	40	NA	NA
Iron	NC	NC	NC	NC	18600	24800
Lead	63	3,900	63	450	43.9	195
Magnesium	NC	NC	NC	NC	5230	4290
Manganese	1,600	10,000	1600	2,000	288	208
Mercury (Total)	0.18	5.7	0.18	0.73	0.038	0.58
Nickel	30	10,000	30	130	22.9	72.3
Potassium	NC	NC	NC	NC	1680	1340
Selenium	3.9	6,800	3.9	4	<2.3	<2.3
Silver	2	6,800	2	8.3	1.2	0.71
Sodium	NC	NC	NC	NC	<1100	<1200
Thallium	NC	NC	5	NC	<1.1	<1.2
Vanadium	NC	NC	39	NC	34.3	34.9
Zinc	109	10,000	109	2,480	114	361

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.4 - Less than the Method Detection Limit

result above SCO.

Color representing

SCO - Soil Cleanup Objective

Hexavalent chromium

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5
Lab Sample ID					JA86430-2	JA86430-3	JA89714-2	JA89714-3
Sampling Date					9/15/2011	9/15/2011	10/20/2011	10/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
					Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0092)	ND (0.0089)	ND (0.0092)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.017)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-SW/3.5	RCH-4H-ENV-SW/3.5A (Duplicate)	
Lab Sample ID					JA89865-1	JA89865-2	JA86559-4	JA86559-5	
Sampling Date					10/21/2011	10/21/2011	9/19/2011	9/19/2011	
Matrix					Soil	Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	mg/kg	
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result				
					Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0091)	ND (0.0095)	ND (0.0090)	ND (0.0090)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5
Sample ID/Depth					JA86559-6	JA90403-2	JA90403-3	JA90574-3
Lab Sample ID					9/19/2011	10/27/2011	10/27/2011	10/28/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.0090)	ND (0.0093)	ND (0.0097)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.012)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5	RCH-4H-ENV-8W/3.5A (Dup)		
Sample ID/Depth					JA90574-4	JA90574-5	JA90025-1/1R	JA90025-2/2R		
Lab Sample ID					10/28/2011	10/28/2011	10/24/2011	10/24/2011		
Sampling Date					Soil	Soil	Soil	Soil		
Matrix					mg/kg	mg/kg	mg/kg	mg/kg		
Units					Result	Result	Result	Result		
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
Aroclor 1016	NC	NC	NC	NC	ND (0.0097)	ND (0.0094)	ND (0.0088)	ND (0.0088)		
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.020)		
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.018)	ND (0.017)	ND (0.017)		
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)		
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)		
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.016)	ND (0.016)		
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)		
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.0099)	ND (0.010)		
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)		
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND		

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Sample ID/Depth					JA90025-3/3R	JA90684-3	JA90684-4	JA90804-1
Lab Sample ID					10/24/2011	10/31/2011	10/31/2011	11/1/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.0090)	ND (0.0088)	ND (0.0089)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.020)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2
Sample ID/Depth					JA90804-2	JB3917-1	JB3917-2	JB3809-9
Lab Sample ID					11/1/2011	4/11/2012	4/11/2012	4/10/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.010)	ND (0.0089)	ND (0.0094)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.024)	ND (0.021)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.020)	ND (0.017)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	0.169	ND (0.016)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	0.179	a ND (0.011)	0.042
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	0.348	ND	0.042

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3
Lab Sample ID					JB3809-10	JB4278-4	JB4278-5	JB3652-1
Sampling Date					4/10/2012	4/16/2012	4/16/2012	4/6/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
					Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.012)
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.024)	ND (0.025)	ND (0.029)
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.020)	ND (0.021)	ND (0.024)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.015)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.015)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.022)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	1.39	1.41	ND (0.016)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.014)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.015)
Total PCBs	0.1	25	1	3.2	ND	1.39	1.41	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-22/6	RCH-4-ENV-23/1	RCH-4-ENV-23/5	RCH-4-ENV-24/1
Sample ID/Depth					JB3652-2	JB3652-8	JB3652-9	JB3809-1
Lab Sample ID					4/6/2012	4/6/2012	4/6/2012	4/10/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0091)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.024)	ND (0.024)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	0.214 a
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.018)	ND (0.018)	0.199 a
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	0.0689 a
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	0.4819

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
Sample ID/Depth					JB3809-2	JB3744-1	JB3744-2	JB3744-9
Lab Sample ID					4/10/2012	4/9/2012	4/9/2012	4/9/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.0093)	ND (0.0089)
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.019)	ND (0.018)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.017)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
Sample ID/Depth					JB3744-10	JB3514-9	JB3514-10	JB3410-8
Lab Sample ID					4/9/2012	4/5/2012	4/5/2012	4/4/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0098)	ND (0.011)	ND (0.011)	ND (0.0098)
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.021)	ND (0.021)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.020)	ND (0.020)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.014)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
Sample ID/Depth					JB3410-9	JB3410-1	JB3410-2	JB3514-1
Lab Sample ID					4/4/2012	4/4/2012	4/4/2012	4/5/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.0096)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.022)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.019)	ND (0.018)	ND (0.020)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
Lab Sample ID					JB3514-2	JB3229-1	JB3229-2	JB3229-8
Sampling Date					4/5/2012	4/3/2012	4/3/2012	4/3/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)					Result	Result	Result	Result
Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
NC	NC	NC	NC	ND (0.0096)	ND (0.0089)	ND (0.0088)	ND (0.0086)	
NC	NC	NC	NC	ND (0.022)	ND (0.020)	ND (0.020)	ND (0.020)	
NC	NC	NC	NC	ND (0.019)	ND (0.017)	ND (0.017)	ND (0.017)	
NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	
NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	
NC	NC	NC	NC	ND (0.017)	0.121	ND (0.016)	ND (0.015)	
NC	NC	NC	NC	ND (0.012)	0.049	ND (0.011)	ND (0.011)	
NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.0099)	ND (0.0097)	
0.1	25	1	3.2	ND	0.17	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-32/6	RCH-4-ENV-33W/3	RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A
Sample ID/Depth					JB3229-g	JB3142-1	JB3142-2	JB3142-7
Lab Sample ID					4/3/2012	4/2/2012	4/2/2012	4/2/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0086)	ND (0.0083)	ND (0.0086)	ND (0.0090)
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.019)	ND (0.020)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.016)	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.0093)	ND (0.0097)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.0097)	ND (0.010)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4-ENV-34/2	RCH-4-ENV-34/5
Lab Sample ID					JB3142-10	JB3142-11
Sampling Date					4/2/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0086)	ND (0.0089)
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.010)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.0097)	ND (0.010)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5
Lab Sample ID					JA86430-2	JA86430-3	JA89714-2	JA89714-3
Sampling Date					9/15/2011	9/15/2011	10/20/2011	10/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00036)	ND (0.00035)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	ND (0.00042)	ND (0.00040)	ND (0.00042)
4,4'-DDT	0.0033	94	0.0033	136	0.0102	a ND (0.00052)	ND (0.00050)	ND (0.00052)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00035)	ND (0.00034)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00053)	ND (0.00051)	ND (0.00053)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00046)	ND (0.00045)	ND (0.00046)
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00050)	ND (0.00048)	ND (0.00050)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00036)	ND (0.00035)	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00041)	ND (0.00040)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00055)	ND (0.00053)	ND (0.00055)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00034)	ND (0.00033)	ND (0.00034)
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00046)	ND (0.00045)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1,000	0.0196	ND (0.00064)	ND (0.00062)	ND (0.00064)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00036)	ND (0.00035)	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	0.0134	ND (0.00067)	ND (0.00065)	ND (0.00067)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00046)	ND (0.00044)	ND (0.00046)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00032)	ND (0.00031)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00043)	ND (0.00042)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	0.0022	a ND (0.00035)	ND (0.00034)	ND (0.00035)
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00050)	ND (0.00048)	ND (0.00050)
Toxaphene	NC	NC	NC	NC	ND (0.0086)	ND (0.0089)	ND (0.0086)	ND (0.0089)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0050)	ND (0.0048)	ND (0.0050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00060)	ND (0.00058)	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00070)	ND (0.00068)	ND (0.00070)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0040)	ND (0.0039)	ND (0.0041)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)	ND (0.0031)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.54)	ND (0.52)	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	0.0021	ND (0.0012)	ND (0.0011)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A
Lab Sample ID					JA89865-1	JA89865-2	JA86559-4	JA86559-5
Sampling Date					10/21/2011	10/21/2011	9/19/2011	9/19/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00036)	ND (0.00037)	ND (0.00036)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00041)	ND (0.00043)	0.00094	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00051)	ND (0.00053)	0.00098	ND (0.00051)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)	ND (0.00036)	ND (0.00035)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00055)	ND (0.00052)	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00047)	ND (0.00045)	ND (0.00045)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)	ND (0.00051)	ND (0.00049)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)	ND (0.00037)	ND (0.00036)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00041)	ND (0.00043)	ND (0.00041)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)	ND (0.00056)	ND (0.00054)	ND (0.00054)
Endosulfan I	2.4	920	NC	102	ND (0.00034)	ND (0.00035)	ND (0.00046)	ND (0.00046)
Endosulfan II	2.4	920	NC	102	ND (0.00046)	ND (0.00048)	ND (0.00043)	ND (0.00043)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)	ND (0.00066)	ND (0.00063)	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00036)	ND (0.00037)	ND (0.00036)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)	ND (0.00069)	ND (0.00066)	ND (0.00066)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00047)	ND (0.00045)	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00033)	ND (0.00032)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00043)	ND (0.00045)	ND (0.00043)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00036)	ND (0.00034)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00051)	ND (0.00049)	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.0088)	ND (0.0092)	ND (0.0088)	ND (0.0088)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0051)	ND (0.0049)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00062)	ND (0.00059)	0.0295 b
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0016)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00072)	ND (0.00069)	ND (0.00069)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0042)	ND (0.0040)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0033)	ND (0.0032)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.54)	ND (0.56)	ND (0.53)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.29)	ND (0.28)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5
Lab Sample ID					JA86559-6	JA90403-2	JA90403-3	JA90574-3
Sampling Date					9/19/2011	10/27/2011	10/27/2011	10/28/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	
					Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00036)	ND (0.00036)	ND (0.00037)	ND (0.00038)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00041)	ND (0.00041)	ND (0.00042)	ND (0.00044)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00051)	ND (0.00051)	ND (0.00053)	ND (0.00055)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)	ND (0.00035)	ND (0.00036)	ND (0.00037)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00052)	ND (0.00054)	ND (0.00056)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00045)	ND (0.00047)	ND (0.00048)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)	ND (0.00049)	ND (0.00050)	ND (0.00052)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)	ND (0.00036)	ND (0.00037)	ND (0.00038)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00041)	ND (0.00041)	ND (0.00042)	ND (0.00043)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)	ND (0.00054)	ND (0.00056)	ND (0.00058)
Endosulfan I	2.4	920	NC	102	ND (0.00046)	ND (0.00034)	ND (0.00035)	ND (0.00036)
Endosulfan II	2.4	920	NC	102	ND (0.00043)	ND (0.00046)	ND (0.00047)	ND (0.00049)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)	ND (0.00063)	ND (0.00065)	ND (0.00067)
Endrin	0.014	410	0.014	0.060	ND (0.00036)	ND (0.00036)	ND (0.00037)	ND (0.00038)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)	ND (0.00066)	ND (0.00068)	ND (0.00070)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00045)	ND (0.00047)	ND (0.00048)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00032)	ND (0.00033)	ND (0.00034)
Heptachlor	0.042	29	0.14	0.38	ND (0.00043)	ND (0.00043)	ND (0.00044)	ND (0.00046)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00034)	ND (0.00035)	ND (0.00037)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00049)	ND (0.00051)	ND (0.00053)
Toxaphene	NC	NC	NC	NC	ND (0.00088)	ND (0.00088)	ND (0.00090)	ND (0.00094)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0049)	ND (0.0051)	ND (0.0052)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00059)	ND (0.00061)	ND (0.00063)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0016)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00069)	ND (0.00071)	ND (0.00074)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0040)	ND (0.0041)	ND (0.0043)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0032)	ND (0.0033)	ND (0.0034)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.53)	ND (0.55)	ND (0.57)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.29)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5	RCH-4H-ENV-8W/3.5A
Lab Sample ID					JA90574-4	JA90574-5	JA90025-1	JA90025-2
Sampling Date					10/28/2011	10/28/2011	10/24/2011	10/24/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00038)	ND (0.00037)	ND (0.00035)	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00044)	ND (0.00043)	ND (0.00040)	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00055)	ND (0.00053)	0.0062	ND (0.00050)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00037)	ND (0.00036)	ND (0.00034)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00056)	ND (0.00054)	ND (0.00051)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00048)	ND (0.00047)	ND (0.00044)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00052)	ND (0.00051)	ND (0.00047)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00038)	ND (0.00037)	ND (0.00035)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00043)	ND (0.00042)	ND (0.00039)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00058)	ND (0.00056)	ND (0.00052)	ND (0.00053)
Endosulfan I	2.4	920	NC	102	ND (0.00036)	ND (0.00035)	ND (0.00033)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00049)	ND (0.00048)	ND (0.00045)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00067)	ND (0.00065)	ND (0.00061)	ND (0.00061)
Endrin	0.014	410	0.014	0.060	ND (0.00038)	ND (0.00037)	ND (0.00035)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00070)	ND (0.00069)	ND (0.00064)	ND (0.00064)
Endrin ketone	NC	NC	NC	NC	ND (0.00048)	ND (0.00047)	ND (0.00044)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00034)	ND (0.00033)	ND (0.00031)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00046)	ND (0.00044)	ND (0.00041)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00037)	ND (0.00036)	ND (0.00033)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00053)	ND (0.00051)	ND (0.00048)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.00094)	ND (0.00091)	ND (0.00085)	ND (0.00086)
2,4-D	NC	NC	NC	0.5	ND (0.00052)	ND (0.00051)	ND (0.00048)	ND (0.00048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00063)	ND (0.00062)	ND (0.00057)	ND (0.00058)
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0015)	ND (0.0014)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00074)	ND (0.00072)	ND (0.00067)	ND (0.00067)
Dichloroprop	NC	NC	NC	NC	ND (0.0043)	ND (0.0041)	ND (0.0039)	ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0034)	ND (0.0033)	ND (0.0031)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.57)	ND (0.56)	ND (0.52)	ND (0.52)
MCPP	NC	NC	NC	NC	ND (0.29)	ND (0.29)	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0012)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Lab Sample ID					JA90025-3	JA90684-3	JA90684-4	JA90804-1
Sampling Date					10/24/2011	10/31/2011	10/31/2011	11/1/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	
					Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00041)	ND (0.00041)	ND (0.00040)	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00051)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00034)	ND (0.00034)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00052)	ND (0.00051)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00045)	ND (0.00044)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)	ND (0.00048)	ND (0.00048)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00040)	ND (0.00040)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)	ND (0.00053)	ND (0.00053)	ND (0.00053)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00033)	ND (0.00033)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00046)	ND (0.00045)	ND (0.00045)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)	ND (0.00062)	ND (0.00061)	ND (0.00062)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)	ND (0.00065)	ND (0.00064)	ND (0.00065)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00045)	ND (0.00044)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00031)	ND (0.00031)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00042)	ND (0.00042)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00034)	ND (0.00033)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00049)	ND (0.00048)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.0087)	ND (0.0087)	ND (0.0086)	ND (0.0086)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0049)	ND (0.0048)	ND (0.0048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00059)	ND (0.00058)	ND (0.00058)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00068)	ND (0.00067)	ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0039)	ND (0.0039)	ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)	ND (0.0031)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.53)	ND (0.52)	ND (0.52)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2
Lab Sample ID					JA90804-2	JB3917-1	JB3917-2	JB3809-9
Sampling Date					11/1/2011	4/11/2012	4/11/2012	4/10/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	0.031	0.020	0.0188
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00041)	0.015	0.008	0.0052
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00051)	0.019	0.006	0.0036
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)	ND (0.00039)	ND (0.00035)	ND (0.00036)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)	ND (0.00058)	ND (0.00052)	ND (0.00054)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	0.024	ND (0.00046)	0.003
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)	ND (0.00054)	ND (0.00049)	ND (0.00051)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	0.019	ND (0.00036)	ND (0.00037)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00045)	ND (0.00041)	ND (0.00042)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)	ND (0.00060)	ND (0.00054)	ND (0.00056)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00038)	ND (0.00034)	ND (0.00035)
Endosulfan II	2.4	920	NC	102	ND (0.00046)	ND (0.00051)	ND (0.00046)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)	ND (0.00070)	ND (0.00063)	ND (0.00065)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00040)	ND (0.00036)	ND (0.00037)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)	ND (0.00074)	ND (0.00066)	ND (0.00068)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00050)	ND (0.00046)	ND (0.00047)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)	ND (0.00035)	ND (0.00032)	ND (0.00033)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00048)	ND (0.00043)	ND (0.00044)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00038)	ND (0.00035)	ND (0.00036)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)	ND (0.00055)	ND (0.00049)	ND (0.00051)
Toxaphene	NC	NC	NC	NC	ND (0.0087)	ND (0.0098)	ND (0.0088)	ND (0.0091)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0056)	ND (0.0049)	ND (0.0046)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00067)	ND (0.00060)	ND (0.00055)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0017)	ND (0.0015)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00079)	ND (0.00070)	ND (0.00064)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0045)	ND (0.0040)	ND (0.0037)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0036)	ND (0.0032)	ND (0.0030)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.61)	ND (0.54)	ND (0.50)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.31)	ND (0.28)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0013)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)

Notes:
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RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3		
Lab Sample ID					JB3809-10	JB4278-4	JB4278-5	JB3652-1		
Sampling Date					4/10/2012	4/16/2012	4/16/2012	4/6/2012		
Matrix					Soil	Soil	Soil	Soil		
Units					mg/kg	mg/kg	mg/kg	mg/kg		
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results		Results	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00039)	0.0376	a	0.0483	a	0.0054
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00045)	0.02	a	0.02	a	0.003
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00056)	ND (0.00057)		ND (0.00061)		ND (0.00070)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00038)	ND (0.00039)		0.0069		ND (0.00048)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00057)	ND (0.00059)		ND (0.00062)		ND (0.00072)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00050)	0.049		0.036		ND (0.00062)
beta-BHC	0.036	14	0.6	0.09	ND (0.00054)	ND (0.00055)		ND (0.00058)		ND (0.00067)
Chlordane	NC	NC	NC	NC	NA	NA		NA		NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00039)	0.052	a	0.033	a	ND (0.00049)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00045)	ND (0.00046)		ND (0.00048)		ND (0.00056)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00059)	ND (0.00061)		ND (0.00064)		ND (0.00074)
Endosulfan I	2.4	920	NC	102	ND (0.00037)	ND (0.00038)		ND (0.00040)		ND (0.00046)
Endosulfan II	2.4	920	NC	102	ND (0.00051)	ND (0.00052)		ND (0.00055)		ND (0.00063)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00069)	ND (0.00071)		ND (0.00075)		ND (0.00087)
Endrin	0.014	410	0.014	0.060	ND (0.00039)	ND (0.00040)		ND (0.00042)		ND (0.00049)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00073)	ND (0.00074)		ND (0.00079)		ND (0.00091)
Endrin ketone	NC	NC	NC	NC	ND (0.00050)	ND (0.00051)		ND (0.00054)		ND (0.00062)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00035)	ND (0.00036)		ND (0.00038)		ND (0.00044)
Heptachlor	0.042	29	0.14	0.38	ND (0.00047)	ND (0.00048)		ND (0.00051)		ND (0.00059)
Heptachlor epoxide	NC	NC	NC	0.02	0.0035 b	ND (0.00039)		ND (0.00041)		ND (0.00047)
Methoxychlor	NC	NC	1.2	900	ND (0.00054)	ND (0.00055)		ND (0.00059)		ND (0.00068)
Toxaphene	NC	NC	NC	NC	ND (0.00097)	ND (0.00099)		ND (0.010)		ND (0.012)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0048)		ND (0.0051)		ND (0.0059)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00058)		ND (0.00062)		ND (0.00071)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)		ND (0.0016)		ND (0.0018)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)		ND (0.0012)		ND (0.0014)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00068)		ND (0.00072)		ND (0.00083)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0039)		ND (0.0042)		ND (0.0048)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	0.044	a	0.031	a	ND (0.0038)
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.52)		ND (0.56)		ND (0.64)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)		ND (0.29)		ND (0.33)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	0.006		0.002		ND (0.0014)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)		ND (0.012)		ND (0.014)

Notes:
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RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-22/6	RCH-4-ENV-23/1	RCH-4-ENV-23/5	RCH-4-ENV-24/1
Lab Sample ID					JB3652-2	JB3652-8	JB3652-9	JB3809-1
Sampling Date					4/6/2012	4/6/2012	4/6/2012	4/10/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00041)	ND (0.00040)	ND (0.00040)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00047)	0.0192	ND (0.00046)	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	0.0295	ND (0.00058)	ND (0.00051)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00039)	ND (0.00039)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00059)	ND (0.00059)	ND (0.00059)	ND (0.00053)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	0.012	ND (0.00051)	ND (0.00046)
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00055)	ND (0.00055)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00040)	0.0043	a ND (0.00040)	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00046)	ND (0.00046)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00061)	ND (0.00061)	ND (0.00061)	ND (0.00054)
Endosulfan I	2.4	920	NC	102	ND (0.00038)	ND (0.00038)	ND (0.00038)	ND (0.00034)
Endosulfan II	2.4	920	NC	102	ND (0.00052)	ND (0.00052)	ND (0.00052)	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00072)	ND (0.00071)	ND (0.00071)	ND (0.00064)
Endrin	0.014	410	0.014	0.060	ND (0.00040)	ND (0.00040)	ND (0.00040)	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	ND (0.00074)	ND (0.00075)	ND (0.00067)
Endrin ketone	NC	NC	NC	NC	ND (0.00051)	ND (0.00051)	ND (0.00051)	ND (0.00046)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00036)	ND (0.00036)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00048)	ND (0.00048)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00039)	ND (0.00039)	ND (0.00035)
Methoxychlor	NC	NC	1.2	900	ND (0.00056)	ND (0.00055)	ND (0.00056)	ND (0.00050)
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.0099)	ND (0.0089)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0048)	ND (0.0049)	ND (0.0043)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00058)	ND (0.00059)	ND (0.00052)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0013)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0010)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00068)	ND (0.00069)	ND (0.00061)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0039)	ND (0.0040)	ND (0.0035)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)	ND (0.0032)	ND (0.0028)
MCPA	NC	NC	NC	NC	ND (0.54)	ND (0.52)	ND (0.53)	ND (0.47)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.24)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0010)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.010)

Notes:
mg/kg - milligrams per kilogram
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NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
Lab Sample ID					JB3809-2	JB3744-1	JB3744-2	JB3744-9
Sampling Date					4/10/2012	4/9/2012	4/9/2012	4/9/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	
					Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00039)	ND (0.00039)	ND (0.00037)	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00045)	ND (0.00044)	ND (0.00042)	0.0084
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00056)	ND (0.00055)	ND (0.00053)	0.0181
Aldrin	0.005	1.4	0.14	0.19	ND (0.00038)	ND (0.00038)	ND (0.00036)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00058)	ND (0.00056)	ND (0.00054)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00050)	0.007	ND (0.00047)	0.006
beta-BHC	0.036	14	0.6	0.09	ND (0.00054)	ND (0.00053)	ND (0.00050)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00039)	0.004	ND (0.00037)	0.004
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00045)	ND (0.00044)	ND (0.00042)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00060)	ND (0.00058)	ND (0.00055)	ND (0.00053)
Endosulfan I	2.4	920	NC	102	ND (0.00037)	ND (0.00036)	ND (0.00035)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00051)	ND (0.00050)	ND (0.00047)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00070)	ND (0.00068)	ND (0.00065)	ND (0.00062)
Endrin	0.014	410	0.014	0.060	ND (0.00039)	ND (0.00038)	ND (0.00037)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00073)	ND (0.00071)	ND (0.00068)	ND (0.00065)
Endrin ketone	NC	NC	NC	NC	ND (0.00050)	ND (0.00049)	ND (0.00047)	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00035)	ND (0.00034)	ND (0.00033)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00047)	ND (0.00046)	ND (0.00044)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00038)	0.012	ND (0.00035)	0.002
Methoxychlor	NC	NC	1.2	900	ND (0.00054)	ND (0.00053)	ND (0.00051)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.0097)	ND (0.0095)	ND (0.0090)	ND (0.0086)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0054)	ND (0.0052)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00066)	ND (0.00062)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0016)	ND (0.0016)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0013)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00076)	ND (0.00073)	ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0044)	ND (0.0042)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0035)	ND (0.0034)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.59)	ND (0.56)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.31)	ND (0.29)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0013)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
Lab Sample ID					JB3744-10	JB3514-9	JB3514-10	JB3410-8
Sampling Date					4/9/2012	4/5/2012	4/5/2012	4/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00039)	0.0102	ND (0.00043)	ND (0.00039)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00044)	0.0289	ND (0.00050)	0.0034
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00055)	0.0171	ND (0.00062)	0.0037
Aldrin	0.005	1.4	0.14	0.19	ND (0.00038)	ND (0.00042)	ND (0.00042)	ND (0.00038)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00056)	ND (0.00063)	ND (0.00056)	ND (0.00056)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00049)	0.030	ND (0.00056)	0.003
beta-BHC	0.036	14	0.6	0.09	ND (0.00053)	ND (0.00059)	ND (0.00056)	ND (0.00053)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00039)	0.017	ND (0.00043)	0.002
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00044)	ND (0.00049)	ND (0.00056)	0.009
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00058)	ND (0.00065)	ND (0.00056)	ND (0.00058)
Endosulfan I	2.4	920	NC	102	ND (0.00036)	ND (0.00041)	ND (0.00056)	ND (0.00036)
Endosulfan II	2.4	920	NC	102	ND (0.00050)	ND (0.00055)	ND (0.00056)	ND (0.00050)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00068)	ND (0.00076)	ND (0.00056)	ND (0.00068)
Endrin	0.014	410	0.014	0.060	ND (0.00039)	ND (0.00043)	ND (0.00056)	ND (0.00038)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00071)	ND (0.00079)	ND (0.00056)	ND (0.00071)
Endrin ketone	NC	NC	NC	NC	ND (0.00049)	ND (0.00054)	ND (0.00056)	ND (0.00049)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00034)	ND (0.00038)	ND (0.00056)	ND (0.00034)
Heptachlor	0.042	29	0.14	0.38	ND (0.00046)	ND (0.00051)	ND (0.00056)	ND (0.00046)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00037)	0.009	ND (0.00056)	0.002
Methoxychlor	NC	NC	1.2	900	ND (0.00053)	ND (0.00059)	ND (0.00056)	ND (0.00053)
Toxaphene	NC	NC	NC	NC	ND (0.00095)	ND (0.011)	ND (0.00056)	ND (0.00095)
2,4-D	NC	NC	NC	0.5	ND (0.0054)	ND (0.0052)	ND (0.0054)	ND (0.0048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00065)	ND (0.00062)	ND (0.00065)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0012)	ND (0.0013)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00076)	ND (0.00073)	ND (0.00075)	ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0044)	ND (0.0042)	ND (0.0044)	ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0035)	ND (0.0034)	ND (0.0035)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.59)	ND (0.56)	ND (0.58)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.30)	ND (0.29)	ND (0.30)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0013)	ND (0.0012)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
Lab Sample ID					JB3410-9	JB3410-1	JB3410-2	JB3514-1
Sampling Date					4/4/2012	4/4/2012	4/4/2012	4/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	
					Results	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00041)	ND (0.00040)	ND (0.00043)	ND (0.00038)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00047)	ND (0.00046)	ND (0.00049)	ND (0.00044)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	0.0101	ND (0.00061)	ND (0.00054)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00040)	ND (0.00039)	ND (0.00042)	ND (0.00037)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00060)	ND (0.00058)	ND (0.00063)	ND (0.00055)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00052)	ND (0.00051)	ND (0.00054)	ND (0.00048)
beta-BHC	0.036	14	0.6	0.09	ND (0.00056)	ND (0.00055)	ND (0.00059)	ND (0.00052)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00041)	ND (0.00040)	ND (0.00043)	ND (0.00038)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00045)	ND (0.00049)	ND (0.00043)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00062)	ND (0.00060)	ND (0.00065)	ND (0.00057)
Endosulfan I	2.4	920	NC	102	ND (0.00039)	ND (0.00038)	ND (0.00040)	ND (0.00036)
Endosulfan II	2.4	920	NC	102	ND (0.00052)	ND (0.00051)	ND (0.00055)	ND (0.00049)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00072)	ND (0.00070)	ND (0.00076)	ND (0.00067)
Endrin	0.014	410	0.014	0.060	ND (0.00041)	ND (0.00040)	ND (0.00043)	ND (0.00038)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00075)	0.002	ND (0.00079)	ND (0.00070)
Endrin ketone	NC	NC	NC	NC	ND (0.00052)	ND (0.00051)	ND (0.00054)	ND (0.00048)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00035)	ND (0.00038)	ND (0.00034)
Heptachlor	0.042	29	0.14	0.38	ND (0.00049)	ND (0.00048)	ND (0.00051)	ND (0.00045)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00038)	ND (0.00041)	ND (0.00036)
Methoxychlor	NC	NC	1.2	900	ND (0.00056)	ND (0.00055)	ND (0.00059)	ND (0.00052)
Toxaphene	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.011)	ND (0.0093)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0048)	ND (0.0052)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00058)	ND (0.00063)	ND (0.00057)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0016)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00068)	ND (0.00073)	ND (0.00066)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0039)	ND (0.0042)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)	ND (0.0034)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.54)	ND (0.53)	ND (0.57)	ND (0.51)
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.27)	ND (0.29)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
Lab Sample ID					JB3514-2	JB3229-1	JB3229-2	JB3229-8
Sampling Date					4/5/2012	4/3/2012	4/3/2012	4/3/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results		Results	Result
					Results	Results	Results	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00038)	ND (0.00035)	ND (0.00035)	ND (0.00034)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00044)	ND (0.00040)	ND (0.00040)	ND (0.00039)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00054)	ND (0.00050)	ND (0.00050)	ND (0.00048)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00037)	ND (0.00034)	ND (0.00034)	ND (0.00033)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00056)	ND (0.00051)	ND (0.00051)	ND (0.00050)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00048)	ND (0.00044)	ND (0.00044)	ND (0.00043)
beta-BHC	0.036	14	0.6	0.09	ND (0.00052)	ND (0.00048)	ND (0.00047)	ND (0.00046)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00038)	ND (0.00035)	ND (0.00035)	ND (0.00034)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00043)	ND (0.00040)	ND (0.00039)	ND (0.00039)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00057)	ND (0.00053)	ND (0.00052)	ND (0.00051)
Endosulfan I	2.4	920	NC	102	ND (0.00036)	ND (0.00033)	ND (0.00033)	ND (0.00032)
Endosulfan II	2.4	920	NC	102	ND (0.00049)	ND (0.00045)	ND (0.00045)	ND (0.00044)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00067)	ND (0.00062)	ND (0.00061)	ND (0.00060)
Endrin	0.014	410	0.014	0.060	ND (0.00038)	ND (0.00035)	ND (0.00035)	ND (0.00034)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00070)	ND (0.00065)	ND (0.00064)	ND (0.00063)
Endrin ketone	NC	NC	NC	NC	ND (0.00048)	ND (0.00044)	ND (0.00044)	ND (0.00043)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00034)	ND (0.00031)	ND (0.00031)	ND (0.00030)
Heptachlor	0.042	29	0.14	0.38	ND (0.00045)	ND (0.00042)	ND (0.00041)	ND (0.00041)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00037)	ND (0.00034)	ND (0.00033)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00052)	ND (0.00048)	ND (0.00048)	ND (0.00047)
Toxaphene	NC	NC	NC	NC	ND (0.00093)	ND (0.00086)	ND (0.00085)	ND (0.00083)
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0048)	ND (0.0047)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00058)	ND (0.00057)	ND (0.00056)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0014)	ND (0.0014)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00067)	ND (0.00067)	ND (0.00065)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0039)	ND (0.0039)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)	ND (0.0031)	ND (0.0030)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.52)	ND (0.52)	ND (0.51)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	0.0181	ND (0.0011)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-32/6	RCH-4-ENV-33W/3	RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A
Lab Sample ID					JB3229-9	JB3142-1	JB3142-2	JB3142-7
Sampling Date					4/3/2012	4/2/2012	4/2/2012	4/2/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Results	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00034)	ND (0.00033)	ND (0.00034)	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00039)	0.0031	ND (0.00039)	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00049)	0.0032	ND (0.00048)	ND (0.00051)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00032)	ND (0.00033)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00050)	ND (0.00048)	ND (0.00050)	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00043)	ND (0.00041)	ND (0.00043)	ND (0.00045)
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00045)	ND (0.00046)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00032)	ND (0.00034)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00039)	ND (0.00037)	ND (0.00039)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00051)	ND (0.00049)	ND (0.00051)	ND (0.00054)
Endosulfan I	2.4	920	NC	102	ND (0.00032)	ND (0.00031)	ND (0.00032)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00044)	ND (0.00042)	ND (0.00044)	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00060)	ND (0.00057)	ND (0.00060)	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00034)	ND (0.00032)	ND (0.00034)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00063)	ND (0.00060)	ND (0.00063)	ND (0.00066)
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00041)	ND (0.00043)	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00030)	ND (0.00029)	ND (0.00030)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00041)	ND (0.00039)	ND (0.00041)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00033)	ND (0.00031)	ND (0.00033)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00047)	ND (0.00045)	ND (0.00047)	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.0083)	ND (0.0080)	ND (0.0083)	ND (0.0087)
2,4-D	NC	NC	NC	0.5	ND (0.0046)	ND (0.0045)	ND (0.0048)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00056)	ND (0.00054)	ND (0.00058)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00065)	ND (0.00063)	ND (0.00067)	ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0038)	ND (0.0036)	ND (0.0039)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0030)	ND (0.0029)	ND (0.0031)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.50)	ND (0.49)	ND (0.52)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.25)	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0010)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-34/2	RCH-4-ENV-34/5
Lab Sample ID					JB3142-10	JB3142-11
Sampling Date					4/2/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Results	Results
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00034)	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	0.00094	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00048)	ND (0.00050)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00049)	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	0.003	ND (0.00045)
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	0.0034	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00039)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00051)	ND (0.00053)
Endosulfan I	2.4	920	NC	102	ND (0.00032)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00043)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00060)	ND (0.00062)
Endrin	0.014	410	0.014	0.060	ND (0.00034)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00063)	ND (0.00065)
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00030)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00040)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00033)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00047)	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.0083)	ND (0.0087)
2,4-D	NC	NC	NC	0.5	ND (0.0047)	ND (0.0049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00057)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00066)	ND (0.00069)
Dichloroprop	NC	NC	NC	NC	ND (0.0038)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.51)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00035) - Not Detected (Method Detection Limit)

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5
Sample ID/Depth					JA86430-2	JA86430-3	JA89714-2	JA89714-3
Lab Sample ID					9/15/2011	9/15/2011	10/20/2011	10/20/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.040)	ND (0.038)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.032)	ND (0.031)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.055)	ND (0.053)	ND (0.055)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.058)	ND (0.055)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.042)	ND (0.040)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.035)	ND (0.033)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	0.0602	J	ND (0.019)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.039)	ND (0.038)	ND (0.039)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.036)	ND (0.035)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.044)	ND (0.042)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0087)	ND (0.0084)	ND (0.0086)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.014)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.042)	ND (0.040)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.058)	ND (0.056)	ND (0.057)
Acenaphthene	20	1,000	20	98	0.0407	ND (0.0099)	ND (0.0096)	ND (0.0098)
Acenaphthylene	100	1,000	NC	107	1.31	ND (0.011)	0.0143	J
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0060)	ND (0.0058)	ND (0.0060)
Anthracene	100	1,000	NC	1,000	0.537	ND (0.012)	0.0331	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0067)	ND (0.0065)	ND (0.0067)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0079)	ND (0.0076)	ND (0.0078)
Benzof[anthracene]	1	11	NC	1	2.76	0.0210	J	0.0441
Benzof[a]pyrene	1	1	2.6	22	3.81	0.0211	J	0.0592
Benzof[b]fluoranthene	1	11	NC	2	4.28	0.0477	0.0398	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	3.00	0.0171	J	0.0373
Benzof[k]fluoranthene	1	110	NC	2	2.57	ND (0.013)	0.0428	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.030)	0.0670	ND (0.030)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	0.244	ND (0.016)	ND (0.015)	ND (0.016)
Chrysene	1	110	NC	1	3.89	0.025	J	0.0486
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.84	ND (0.012)	ND (0.011)	ND (0.012)
Dibenzofuran	7	1,000	NC	210	0.0587	J	ND (0.010)	ND (0.0098)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	0.0363	J	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0076)	ND (0.0073)	ND (0.0075)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.017)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0040)	ND (0.0038)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	6.24	0.0357	0.1290	ND (0.015)
Fluorene	30	1,000	30	386	0.143	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0095)	ND (0.0092)	ND (0.0094)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.035)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0095)	ND (0.0092)	ND (0.0094)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	2.98	0.0169	J	0.0299
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0092)	ND (0.0089)	ND (0.0091)
Naphthalene	12	1,000	NC	12	0.0499	ND (0.0094)	ND (0.0090)	ND (0.0093)
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0099)	ND (0.0095)	ND (0.0098)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0084)	ND (0.0081)	ND (0.0083)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.059)	ND (0.056)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	0.903	ND (0.016)	0.0638	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.036)	ND (0.035)	ND (0.036)
Pyrene	100	1,000	NC	1,000	4.78	0.0322	J	0.1170
Total SVOCs	NC	NC	NC	NC	38.53	0.22	0.73	ND

Notes:
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NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A (Duplicate)
Lab Sample ID					JA89865-1	JA89865-2	JA86559-4	JA86559-5
Sampling Date					10/21/2011	10/21/2011	9/19/2011	9/19/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.036)	ND (0.035)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.041)	ND (0.039)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.033)	ND (0.032)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.057)	ND (0.054)	ND (0.054)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.059)	ND (0.057)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.043)	ND (0.041)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.036)	ND (0.034)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.040)	ND (0.038)	ND (0.038)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.037)	ND (0.036)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.043)	ND (0.045)	ND (0.043)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0089)	ND (0.0086)	ND (0.0085)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.043)	ND (0.041)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.057)	ND (0.059)	ND (0.057)	ND (0.057)
Acenaphthene	20	1,000	20	98	ND (0.0097)	ND (0.010)	0.0379	0.0532
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0062)	ND (0.0059)	ND (0.0059)
Anthracene	100	1,000	NC	1,000	0.0198	ND (0.012)	ND (0.012)	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0069)	ND (0.0066)	ND (0.0066)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0081)	ND (0.0078)	ND (0.0077)
Benzof[anthracene]	1	11	NC	1	0.0497	ND (0.011)	ND (0.011)	0.0162
Benzof[a]pyrene	1	1	2.6	22	0.0550	ND (0.011)	ND (0.010)	ND (0.010)
Benzof[b]fluoranthene	1	11	NC	2	0.0419	ND (0.012)	ND (0.011)	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	0.0319	ND (0.013)	ND (0.013)	ND (0.013)
Benzof[k]fluoranthene	1	110	NC	2	0.0426	ND (0.013)	ND (0.013)	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	ND (0.031)	0.0361	ND (0.030)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.020)	ND (0.020)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Chrysene	1	110	NC	1	0.0469	ND (0.012)	ND (0.011)	0.0129
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.0782	0.0890	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0078)	ND (0.0075)	ND (0.0075)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0041)	ND (0.0039)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	0.1020	ND (0.016)	0.0152	0.0296
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.012)	0.0173	0.0227
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0096)	ND (0.0094)	ND (0.0094)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.036)	ND (0.034)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0098)	ND (0.0094)	ND (0.0094)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.0331	ND (0.012)	ND (0.012)	ND (0.012)
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0095)	ND (0.0091)	ND (0.0090)
Naphthalene	12	1,000	NC	12	ND (0.0091)	ND (0.0096)	ND (0.0092)	ND (0.0092)
Nitrobenzene	NC	140	40	0.17	ND (0.0097)	ND (0.010)	ND (0.0097)	ND (0.0097)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0082)	ND (0.0086)	ND (0.0082)	ND (0.0082)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.021)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.060)	ND (0.058)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	0.0847	ND (0.016)	ND (0.015)	0.0286
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.035)
Pyrene	100	1,000	NC	1,000	0.0876	ND (0.014)	0.0220	0.0359
Total SVOCs	NC	NC	NC	NC	0.67	0.09	0.13	0.20

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5
Sample ID/Depth					JA86559-6	JA90403-2	JA90403-3	JA90574-3
Lab Sample ID					9/19/2011	10/27/2011	10/27/2011	10/28/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	RCH-4H-ENV-6/7.5	ND (0.011)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.035)	ND (0.036)	ND (0.037)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.039)	ND (0.040)	ND (0.042)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.032)	ND (0.033)	ND (0.034)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.054)	ND (0.056)	ND (0.058)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.057)	ND (0.059)	ND (0.061)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.041)	ND (0.043)	ND (0.044)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.014)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.036)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.020)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.039)	ND (0.040)	ND (0.041)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.036)	ND (0.037)	ND (0.038)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.043)	ND (0.044)	ND (0.046)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0086)	ND (0.0089)	ND (0.0092)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.041)	ND (0.043)	ND (0.044)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.035)	ND (0.036)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.014)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.057)	ND (0.059)	ND (0.061)
Acenaphthene	20	1,000	20	98	0.0478	0.17	ND (0.010)	ND (0.010)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.07	ND (0.011)	ND (0.012)
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0059)	ND (0.0061)	ND (0.0064)
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.59	ND (0.012)	ND (0.013)
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0067)	ND (0.0069)	ND (0.0071)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0078)	ND (0.0080)	ND (0.0083)
Benzofluoranthene	1	11	NC	1	ND (0.011)	0.83	0.0240	J ND (0.012)
Benzofluorene	1	1	2.6	22	ND (0.010)	0.78	0.0194	J ND (0.011)
Benzofluoranthene	1	11	NC	2	ND (0.011)	0.75	0.0196	J ND (0.012)
Benzofluorene	100	1,000	NC	1,000	ND (0.012)	0.52	0.0142	J ND (0.013)
Benzofluoranthene	1	110	NC	2	ND (0.013)	0.49	0.0131	J ND (0.014)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.015)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.030)	ND (0.031)	ND (0.032)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.020)	ND (0.020)	ND (0.021)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.015)	0.145	ND (0.016)	ND (0.017)
Chrysene	1	110	NC	1	ND (0.011)	0.802	0.0213	J ND (0.012)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	0.171	ND (0.012)	ND (0.012)
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	0.165	ND (0.010)	ND (0.011)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.013)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0075)	ND (0.0077)	ND (0.0080)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.018)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0039)	ND (0.0040)	ND (0.0042)
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	1.95	0.0414	ND (0.016)
Fluorene	30	1,000	30	386	ND (0.011)	0.27	ND (0.011)	ND (0.012)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0094)	ND (0.0097)	ND (0.010)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.034)	ND (0.036)	ND (0.037)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0094)	ND (0.0097)	ND (0.010)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.463	0.0147	J ND (0.013)
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0091)	ND (0.0094)	ND (0.0097)
Naphthalene	12	1,000	NC	12	ND (0.0091)	ND (0.0092)	0.0347	J ND (0.0099)
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0098)	ND (0.010)	ND (0.010)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0082)	ND (0.0085)	ND (0.0088)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.022)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.058)	ND (0.060)	ND (0.062)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	1.53	0.0260	J ND (0.016)
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.035)	ND (0.037)	ND (0.038)
Pyrene	100	1,000	NC	1,000	0.0704	1.45	0.0330	J ND (0.014)
Total SVOCs	NC	NC	NC	NC	0.12	11.16	0.26	ND

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5	RCH-4H-ENV-8W/3.5A (Dup)
Sample ID/Depth					JA90574-4	JA90574-5	JA90025-1	JA90025-2
Lab Sample ID					10/28/2011	10/28/2011	10/24/2011	10/24/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units								
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.037)	ND (0.036)	ND (0.034)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.042)	ND (0.041)	ND (0.038)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.034)	ND (0.033)	ND (0.031)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.058)	ND (0.057)	ND (0.053)	ND (0.053)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.061)	ND (0.059)	ND (0.055)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.044)	ND (0.043)	ND (0.040)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.015)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.036)	ND (0.035)	ND (0.033)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.020)	ND (0.020)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.041)	ND (0.040)	ND (0.037)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.015)	ND (0.014)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.038)	ND (0.037)	ND (0.035)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.046)	ND (0.045)	ND (0.042)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0092)	ND (0.0089)	ND (0.0083)	ND (0.0083)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.044)	ND (0.043)	ND (0.040)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.036)	ND (0.035)	ND (0.033)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.0099)	ND (0.0098)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.061)	ND (0.059)	ND (0.056)	ND (0.055)
Acenaphthene	20	1,000	20	98	ND (0.010)	ND (0.010)	ND (0.0095)	ND (0.0095)
Acenaphthylene	100	1,000	NC	107	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0064)	ND (0.0062)	ND (0.0058)	ND (0.0057)
Anthracene	100	1,000	NC	1,000	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.011)
Atrazine	NC	NC	NC	NC	ND (0.0071)	ND (0.0069)	ND (0.0065)	ND (0.0064)
Benzaldehyde	NC	NC	NC	NC	ND (0.0083)	ND (0.0081)	ND (0.0076)	ND (0.0075)
Benzof[anthracene]	1	11	NC	1	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.0099)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)
Benzof[k]fluoranthene	1	110	NC	2	ND (0.014)	ND (0.013)	ND (0.012)	ND (0.012)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.0099)	ND (0.0098)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.032)	ND (0.031)	0.1370	0.3510
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	ND (0.020)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.017)	ND (0.016)	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.010)	ND (0.0098)	ND (0.0097)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.013)	ND (0.012)	0.1330	0.0949
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0080)	ND (0.0078)	ND (0.0073)	ND (0.0072)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.018)	ND (0.017)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0042)	ND (0.0041)	ND (0.0038)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	ND (0.016)	ND (0.015)	ND (0.014)	ND (0.014)
Fluorene	30	1,000	30	386	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.0091)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.037)	ND (0.036)	ND (0.033)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.0091)	ND (0.0091)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0097)	ND (0.0095)	ND (0.0088)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0099)	ND (0.0096)	ND (0.0090)	ND (0.0089)
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.010)	ND (0.0095)	ND (0.0094)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0088)	ND (0.0086)	ND (0.0080)	ND (0.0080)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.022)	ND (0.021)	ND (0.020)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.062)	ND (0.060)	ND (0.056)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.038)	ND (0.037)	ND (0.034)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)
Total SVOCs	NC	NC	NC	NC	ND	ND	0.27	0.45

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

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STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Sample ID/Depth								
Lab Sample ID					JA90025-3	JA90684-3	JA90684-4	JA90804-1
Sampling Date					10/24/2011	10/31/2011	10/31/2011	11/1/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.039)	ND (0.038)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.053)	ND (0.054)	ND (0.053)	ND (0.053)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.056)	ND (0.055)	ND (0.056)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.041)	ND (0.040)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.034)	ND (0.033)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.019)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0084)	ND (0.0085)	ND (0.0084)	ND (0.0084)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.041)	ND (0.040)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.057)	ND (0.056)	ND (0.056)
Acenaphthene	20	1,000	20	98	ND (0.0096)	ND (0.0097)	ND (0.0096)	ND (0.0096)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0058)	ND (0.0059)	ND (0.0058)	ND (0.0058)
Anthracene	100	1,000	NC	1,000	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0065)	ND (0.0066)	ND (0.0065)	ND (0.0065)
Benzaldehyde	NC	NC	NC	NC	ND (0.0076)	ND (0.0077)	ND (0.0076)	ND (0.0076)
Benzof[a]anthracene	1	11	NC	1	ND (0.011)	0.0203	J	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.010)	0.026	J	ND (0.010)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	0.0282	J	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	0.0217	J	ND (0.012)
Benzof[k]fluoranthene	1	110	NC	2	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	0.1050	ND (0.030)	ND (0.029)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	ND (0.011)	0.0202	J	ND (0.011)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	ND (0.0099)	ND (0.0098)	ND (0.0098)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.1100	ND (0.012)	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0074)	ND (0.0073)	ND (0.0073)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0039)	ND (0.0038)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.0297	J	ND (0.015)
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0092)	ND (0.0093)	ND (0.0092)	ND (0.0092)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.0092)	ND (0.0093)	ND (0.0092)	ND (0.0092)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.0173	J	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0089)	ND (0.0090)	ND (0.0089)	ND (0.0089)
Naphthalene	12	1,000	NC	12	ND (0.0091)	0.0595	0.0853	ND (0.0090)
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0097)	ND (0.0095)	ND (0.0096)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0082)	ND (0.0081)	ND (0.0081)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.057)	ND (0.056)	ND (0.057)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	0.0177	J	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.035)
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.0277	J	ND (0.013)
Total SVOCs	NC	NC	NC	NC	0.22	0.27	0.09	ND

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
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					RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2
Sample ID/Depth					JA90804-2	JB3917-1	JB3917-2	JB3809-9
Lab Sample ID					11/1/2011	4/11/2012	4/11/2012	4/10/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.010)	ND (0.0095)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.039)	ND (0.035)	ND (0.032)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.044)	ND (0.040)	ND (0.036)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.036)	ND (0.032)	ND (0.029)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.062)	ND (0.055)	ND (0.050)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.064)	ND (0.057)	ND (0.052)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.047)	ND (0.042)	ND (0.038)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.017)	ND (0.015)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.015)	ND (0.013)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.011)	ND (0.0096)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.039)	ND (0.034)	ND (0.031)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	0.0279	J 0.0346	J 0.0227
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.044)	ND (0.039)	ND (0.035)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.017)	ND (0.015)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.041)	ND (0.036)	ND (0.033)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.049)	ND (0.043)	ND (0.039)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0097)	ND (0.0087)	ND (0.0079)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.015)	ND (0.014)	ND (0.012)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.047)	ND (0.042)	ND (0.038)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.014)	ND (0.012)	ND (0.011)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.038)	ND (0.034)	ND (0.031)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.0099)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.010)	ND (0.0094)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.015)	ND (0.013)	ND (0.012)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.065)	ND (0.058)	ND (0.053)
Acenaphthene	20	1,000	20	98	ND (0.0097)	0.0317	J ND (0.0099)	ND (0.0090)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.0347	J 0.0232	J 0.1060
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0067)	ND (0.0060)	ND (0.0055)
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.0734	0.0446	0.1510
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0076)	ND (0.0067)	ND (0.0061)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0088)	ND (0.0079)	ND (0.0072)
Benzoflanthracene	1	11	NC	1	ND (0.011)	0.1450	0.1100	0.1630
Benzofluoranthene	1	1	2.6	22	ND (0.010)	0.1440	0.1160	0.1580
Benzofluoranthene	1	11	NC	2	ND (0.011)	0.2070	0.0968	0.1050
Benzofluoranthene	100	1,000	NC	1,000	ND (0.012)	0.0978	0.0821	0.0994
Benzofluoranthene	1	110	NC	2	ND (0.013)	0.0669	0.1120	0.0926
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.010)	ND (0.0094)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	ND (0.034)	ND (0.030)	ND (0.027)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.022)	ND (0.020)	ND (0.018)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.0098)
Carbazole	NC	NC	NC	NC	ND (0.015)	0.0270	J ND (0.016)	ND (0.014)
Chrysene	1	110	NC	1	ND (0.011)	0.1760	0.1360	0.1760
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	0.0268	J 0.0340	J 0.0199
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	ND (0.011)	ND (0.010)	ND (0.0092)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.013)	ND (0.012)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0085)	ND (0.0076)	0.032
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.019)	ND (0.017)	ND (0.015)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0044)	ND (0.0040)	0.0196
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.4330	0.2030	0.4090
Fluorene	30	1,000	30	386	ND (0.011)	0.0252	J 0.0172	J 0.0763
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.010)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.011)	ND (0.0095)	ND (0.0086)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.039)	ND (0.035)	ND (0.032)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.011)	ND (0.0095)	ND (0.0086)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.1070	0.0902	0.0731
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.010)	ND (0.0092)	ND (0.0084)
Naphthalene	12	1,000	NC	12	ND (0.0091)	0.0271	J 0.0354	J 0.1060
Nitrobenzene	NC	140	40	0.17	ND (0.0097)	ND (0.011)	ND (0.0099)	ND (0.0090)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0082)	ND (0.0094)	ND (0.0083)	ND (0.0076)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.023)	ND (0.020)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.066)	ND (0.058)	ND (0.053)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	0.1340	0.1510	0.8440
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.040)	ND (0.036)	ND (0.033)
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.3580	0.2040	0.5750
Total SVOCs	NC	NC	NC	NC	ND	1.785	1.286	2.654

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

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					RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3
Sample ID/Depth					JB3809-10	JB4278-4	JB4278-5	JB3652-1
Lab Sample ID					4/10/2012	4/16/2012	4/16/2012	4/6/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.013)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.037)	ND (0.041)	ND (0.042)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.042)	ND (0.046)	ND (0.048)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.034)	ND (0.037)	ND (0.039)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.055)	ND (0.058)	ND (0.064)	ND (0.066)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)	0.1760	J 0.0787	J ND (0.069)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.044)	ND (0.048)	ND (0.050)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.017)	ND (0.018)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.014)	ND (0.015)	ND (0.016)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.013)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.037)	ND (0.040)	ND (0.041)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	6.0900	J 1.1700	J ND (0.023)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.039)	ND (0.041)	ND (0.045)	ND (0.047)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.016)	ND (0.017)	ND (0.018)
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.038)	ND (0.042)	ND (0.043)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.043)	ND (0.046)	ND (0.050)	ND (0.052)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0087)	ND (0.0092)	ND (0.010)	ND (0.010)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.014)	ND (0.016)	ND (0.016)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.044)	ND (0.048)	ND (0.050)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.015)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)	ND (0.036)	ND (0.040)	ND (0.041)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.012)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.015)	ND (0.016)
4-Nitrophenol	NC	NC	7	0.3	ND (0.058)	ND (0.061)	ND (0.067)	ND (0.069)
Acenaphthene	20	1,000	20	98	ND (0.0099)	8.2200	1.4000	ND (0.012)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.1830	0.0777	0.0780
Acetophenone	NC	NC	NC	NC	ND (0.0060)	ND (0.0064)	ND (0.0070)	ND (0.0072)
Anthracene	100	1,000	NC	1,000	ND (0.012)	3.1900	0.6180	0.0556
Atrazine	NC	NC	NC	NC	ND (0.0067)	ND (0.0071)	ND (0.0078)	ND (0.0081)
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)	ND (0.0083)	ND (0.0091)	ND (0.0094)
Benzof[a]anthracene	1	11	NC	1	0.0157	J 1.68	0.4890	0.1860
Benzof[a]pyrene	1	1	2.6	22	ND (0.010)	0.82	0.2990	0.2000
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	0.93	0.3630	0.2680
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.013)	0.39	0.2130	0.1360
Benzof[k]fluoranthene	1	110	NC	2	ND (0.013)	0.67	0.2630	0.1480
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.016)	ND (0.017)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.012)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	0.0621	J ND (0.035)	ND (0.036)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.021)	ND (0.023)	ND (0.024)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.013)	ND (0.013)
Carbazole	NC	NC	NC	NC	ND (0.016)	0.92	0.1830	0.0215
Chrysene	1	110	NC	1	0.0152	J 1.7	0.5600	0.2420
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	0.12	0.0553	0.0474
Dibenzofuran	7	1,000	NC	210	ND (0.010)	6.20	1.0500	ND (0.012)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.014)	ND (0.014)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.014)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0076)	ND (0.0080)	ND (0.0088)	ND (0.0091)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.018)	ND (0.019)	ND (0.020)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0040)	1.4800	0.2920	ND (0.0048)
Fluoranthene	100	1,000	NC	1,000	0.0243	J 8.1800	1.7000	0.3700
Fluorene	30	1,000	30	386	ND (0.011)	6.9600	1.1400	ND (0.013)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.013)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.011)	ND (0.011)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.037)	ND (0.041)	ND (0.042)
Hexachloroethane	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.011)	ND (0.011)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.3770	0.1770	0.1650
Isophorone	NC	NC	NC	4	ND (0.0092)	ND (0.0097)	ND (0.011)	ND (0.011)
Naphthalene	12	1,000	NC	12	ND (0.0093)	1.8200	0.7700	0.0380
Nitrobenzene	NC	140	40	0.17	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.012)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0083)	ND (0.0088)	ND (0.0097)	ND (0.010)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.022)	ND (0.024)	ND (0.024)
Pentachlorophenol	1	55	0.8	1	ND (0.058)	ND (0.062)	ND (0.068)	ND (0.070)
Phenanthrene	100	1,000	NC	1,000	0.0378	17.5000	2.7300	0.1710
Phenol	0.33	1,000	30	0.33	ND (0.036)	0.1750	0.1880	ND (0.043)
Pyrene	100	1,000	NC	1,000	0.0294	J 6.3600	1.6500	0.3410
Total SVOCs	NC	NC	NC	NC	0.093	1.785	1.286	2.127

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix Units	RCH-4-ENV-22/6		RCH-4-ENV-23/1		RCH-4-ENV-23/5		RCH-4-ENV-24/1	
	Result	Result	Result	Result	Result	Result	Result	
	JB3652-2	JB3652-8	JB3652-9	JB3809-1	4/6/2012	4/6/2012	4/6/2012	4/10/2012
	Soil	Soil	Soil	Soil	mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0098)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.033)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.039)	ND (0.039)	ND (0.037)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.031)	ND (0.031)	ND (0.030)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.053)	ND (0.054)	ND (0.051)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.056)	ND (0.056)	ND (0.054)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.040)	ND (0.041)	ND (0.039)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0099)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.032)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	0.0710	ND (0.019)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.036)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.035)	ND (0.036)	ND (0.034)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.042)	ND (0.043)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0084)	ND (0.0085)	ND (0.0081)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.040)	ND (0.041)	ND (0.039)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.032)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0096)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.056)	ND (0.057)	ND (0.054)
Acenaphthene	20	1,000	20	98	ND (0.0097)	ND (0.0096)	ND (0.0097)	ND (0.0093)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.1310	ND (0.011)	0.0139
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0058)	ND (0.0059)	ND (0.0056)
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.1010	ND (0.012)	0.0204
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0065)	ND (0.0066)	ND (0.0063)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0076)	ND (0.0077)	ND (0.0073)
Benzofl[anthracene]	1	11	NC	1	ND (0.011)	0.4580	ND (0.011)	0.0641
Benzofl[a]pyrene	1	1	2.6	22	ND (0.010)	0.4780	ND (0.010)	0.0692
Benzofl[b]fluoranthene	1	11	NC	2	ND (0.011)	0.5300	ND (0.011)	0.0851
Benzofl[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	0.3040	ND (0.012)	0.0514
Benzofl[k]fluoranthene	1	110	NC	2	ND (0.013)	0.3880	ND (0.013)	0.0423
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0096)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.029)	ND (0.030)	ND (0.028)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.018)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.015)	0.0228	J	ND (0.016)
Chrysene	1	110	NC	1	ND (0.011)	0.4940	ND (0.011)	0.0700
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	0.0916	ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	0.0248	J	ND (0.0099)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0074)	ND (0.0074)	ND (0.0071)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0039)	ND (0.0039)	ND (0.0037)
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.8010	ND (0.015)	0.1370
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0092)	ND (0.0093)	ND (0.0089)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0092)	ND (0.0093)	ND (0.0089)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.3650	ND (0.012)	0.0540
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0089)	ND (0.0090)	ND (0.0086)
Naphthalene	12	1,000	NC	12	ND (0.0091)	0.0553	ND (0.0091)	ND (0.0087)
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0096)	ND (0.0097)	ND (0.0092)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0081)	ND (0.0082)	ND (0.0078)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.057)	ND (0.057)	ND (0.055)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	0.2780	ND (0.015)	0.0592
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.7020	ND (0.013)	0.1310
Total SVOCs	NC	NC	NC	NC	ND	4.574	ND	0.667

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
Sample ID/Depth								
Lab Sample ID					JB3809-2	JB3744-1	JB3744-2	JB3744-9
Sampling Date					4/10/2012	4/9/2012	4/9/2012	4/9/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.038)	ND (0.036)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.043)	ND (0.041)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.033)	ND (0.035)	ND (0.033)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.056)	ND (0.060)	ND (0.057)	ND (0.054)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.058)	ND (0.063)	ND (0.059)	ND (0.056)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.045)	ND (0.043)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.035)	ND (0.038)	ND (0.036)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	0.2380	ND (0.020)	ND (0.019)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.039)	ND (0.042)	ND (0.040)	ND (0.038)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.037)	ND (0.039)	ND (0.037)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.044)	ND (0.047)	ND (0.045)	ND (0.042)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0088)	ND (0.0095)	ND (0.0090)	ND (0.0085)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.045)	ND (0.043)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.059)	ND (0.063)	ND (0.060)	ND (0.056)
Acenaphthene	20	1,000	20	98	ND (0.010)	0.5070	ND (0.010)	ND (0.0097)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.8140	ND (0.011)	0.1510
Acetophenone	NC	NC	NC	NC	ND (0.0061)	ND (0.0066)	ND (0.0062)	ND (0.0059)
Anthracene	100	1,000	NC	1,000	ND (0.012)	1.8100	ND (0.012)	0.9000
Atrazine	NC	NC	NC	NC	ND (0.0068)	ND (0.0073)	ND (0.0069)	ND (0.0066)
Benzaldehyde	NC	NC	NC	NC	ND (0.0080)	ND (0.0086)	ND (0.0081)	ND (0.0077)
Benzof[a]anthracene	1	11	NC	1	ND (0.011)	3.46	ND (0.011)	0.3730
Benzof[a]pyrene	1	1	2.6	22	ND (0.011)	3.2	ND (0.011)	0.4220
Benzof[b]fluoranthene	1	11	NC	2	ND (0.012)	4.04	ND (0.012)	0.4290
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.013)	2.03	ND (0.013)	0.2810
Benzof[k]fluoranthene	1	110	NC	2	ND (0.013)	2.22	ND (0.013)	0.3110
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.031)	ND (0.033)	ND (0.031)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.022)	ND (0.020)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.016)	0.5350	ND (0.016)	0.0239
Chrysene	1	110	NC	1	ND (0.012)	4.30	ND (0.012)	0.4550
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	0.995	ND (0.012)	0.0446
Dibenzofuran	7	1,000	NC	210	ND (0.010)	0.5170	ND (0.010)	ND (0.0099)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.0412	0.0550	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0077)	ND (0.0083)	ND (0.0078)	ND (0.0074)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.018)	ND (0.017)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0040)	0.0729	ND (0.0041)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	8.9800	ND (0.016)	0.6670
Fluorene	30	1,000	30	386	ND (0.011)	0.7790	ND (0.012)	0.0234
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0098)	ND (0.0093)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.038)	ND (0.036)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0098)	ND (0.0093)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	1.97	ND (0.012)	0.2530
Isophorone	NC	NC	NC	4	ND (0.0093)	ND (0.010)	ND (0.0095)	ND (0.0090)
Naphthalene	12	1,000	NC	12	ND (0.0095)	0.3250	ND (0.0096)	ND (0.0091)
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.0096)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0085)	ND (0.0091)	ND (0.0086)	ND (0.0081)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.059)	ND (0.064)	ND (0.060)	ND (0.057)
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	7.6700	ND (0.016)	0.2780
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.039)	ND (0.037)	ND (0.035)
Pyrene	100	1,000	NC	1,000	ND (0.013)	7.3000	ND (0.014)	0.5900
Total SVOCs	NC	NC	NC	NC	0.041	44.518	ND	3.802

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix Units	RCH-4-ENV-26/6		RCH-4-ENV-27/1		RCH-4-ENV-27/6		RCH-4-ENV-28/2	
	Result	Result	Result	Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.038)	ND (0.037)	ND (0.038)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.042)	ND (0.042)	ND (0.043)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.059)	ND (0.058)	ND (0.060)	ND (0.053)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.061)	ND (0.061)	ND (0.062)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.044)	ND (0.044)	ND (0.045)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.037)	ND (0.036)	ND (0.038)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.042)	ND (0.041)	ND (0.042)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.039)	ND (0.038)	ND (0.039)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.046)	ND (0.046)	ND (0.047)	ND (0.042)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0093)	ND (0.0091)	ND (0.0094)	ND (0.0083)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.044)	ND (0.044)	ND (0.045)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.036)	ND (0.036)	ND (0.037)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0099)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.062)	ND (0.061)	ND (0.063)	ND (0.055)
Acenaphthene	20	1,000	20	98	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.0095)
Acenaphthylene	100	1,000	NC	107	ND (0.012)	0.0200	J ND (0.012)	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0058)
Anthracene	100	1,000	NC	1,000	ND (0.013)	0.0206	J ND (0.013)	ND (0.011)
Atrazine	NC	NC	NC	NC	ND (0.0072)	ND (0.0071)	ND (0.0073)	ND (0.0065)
Benzaldehyde	NC	NC	NC	NC	ND (0.0084)	ND (0.0083)	ND (0.0085)	ND (0.0075)
Benzof[anthracene]	1	11	NC	1	ND (0.012)	0.0739	ND (0.012)	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.011)	0.0805	ND (0.011)	ND (0.010)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.012)	0.0625	ND (0.012)	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.014)	0.0501	ND (0.014)	ND (0.012)
Benzof[k]fluoranthene	1	110	NC	2	ND (0.014)	0.0771	ND (0.014)	ND (0.012)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0099)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.032)	ND (0.032)	ND (0.033)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.015)
Chrysene	1	110	NC	1	ND (0.012)	0.0891	ND (0.013)	ND (0.011)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0097)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.013)	ND (0.013)	0.0542	J ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0081)	ND (0.0080)	ND (0.0082)	ND (0.0073)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0042)	ND (0.0042)	ND (0.0043)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	ND (0.016)	0.1350	ND (0.016)	ND (0.014)
Fluorene	30	1,000	30	386	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.037)	ND (0.037)	ND (0.038)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0091)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.013)	0.0681	ND (0.013)	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0098)	ND (0.0097)	ND (0.010)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0099)	ND (0.0098)	ND (0.010)	ND (0.0090)
Nitrobenzene	NC	140	40	0.17	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.0095)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0089)	ND (0.0088)	ND (0.0091)	ND (0.0080)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.062)	ND (0.062)	ND (0.064)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	ND (0.017)	0.0681	ND (0.017)	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.038)	ND (0.038)	ND (0.039)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.014)	0.1520	ND (0.014)	ND (0.013)
Total SVOCs	NC	NC	NC	NC	ND	0.745	0.054	ND

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Sample ID/Depth				RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
	Lab Sample ID				JB3410-9	JB3410-1	JB3410-2	JB3514-1
	Sampling Date				4/4/2012	4/4/2012	4/4/2012	4/5/2012
	Matrix				Soil	Soil	Soil	Soil
	Units				mg/kg	mg/kg	mg/kg	mg/kg
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.034)	ND (0.033)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.038)	ND (0.037)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.031)	ND (0.030)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.055)	ND (0.053)	ND (0.052)	ND (0.052)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)	ND (0.055)	ND (0.054)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.040)	ND (0.039)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.033)	ND (0.033)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.039)	ND (0.038)	ND (0.037)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)	ND (0.014)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.035)	ND (0.034)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.043)	ND (0.042)	ND (0.041)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0087)	ND (0.0084)	ND (0.0082)	ND (0.0083)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.040)	ND (0.039)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)	ND (0.033)	ND (0.032)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.0097)	ND (0.0098)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.058)	ND (0.056)	ND (0.055)	ND (0.055)
Acenaphthene	20	1,000	20	98	ND (0.0099)	ND (0.0095)	ND (0.0094)	ND (0.0094)
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.0202	J	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0060)	ND (0.0058)	ND (0.0057)	ND (0.0057)
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.0159	J	ND (0.011)
Atrazine	NC	NC	NC	NC	ND (0.0067)	ND (0.0065)	ND (0.0064)	ND (0.0064)
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)	ND (0.0076)	ND (0.0074)	ND (0.0075)
Benzof[a]anthracene	1	11	NC	1	ND (0.011)	0.0673	ND (0.011)	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.010)	0.0769	ND (0.0098)	ND (0.0099)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	0.0756	ND (0.011)	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.013)	0.0576	ND (0.012)	ND (0.012)
Benzof[k]fluoranthene	1	110	NC	2	ND (0.013)	0.0959	ND (0.012)	ND (0.012)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.0097)	ND (0.0098)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	ND (0.029)	ND (0.028)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	ND (0.012)	0.0888	ND (0.011)	ND (0.011)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	0.0153	J	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.0098)	ND (0.0096)	ND (0.0097)
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.011)	0.0455
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0076)	ND (0.0073)	ND (0.0072)	ND (0.0072)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.016)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0040)	ND (0.0038)	ND (0.0037)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.1150	ND (0.014)	ND (0.014)
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0095)	ND (0.0092)	ND (0.0090)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.034)	ND (0.033)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.0095)	ND (0.0092)	ND (0.0090)	ND (0.0091)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.0511	J	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0092)	ND (0.0089)	ND (0.0087)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0093)	ND (0.0090)	ND (0.0088)	ND (0.0089)
Nitrobenzene	NC	140	40	0.17	ND (0.0099)	ND (0.0095)	ND (0.0093)	ND (0.0094)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0083)	ND (0.0080)	ND (0.0079)	ND (0.0079)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.019)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.058)	ND (0.056)	ND (0.055)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	0.0421	ND (0.015)	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.035)	ND (0.034)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.1170	ND (0.012)	ND (0.013)
Total SVOCs	NC	NC	NC	NC	ND	0.722	ND	0.046

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
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SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
Sample ID/Depth					JB3514-2	JB3229-1	JB3229-2	JB3229-8
Lab Sample ID					4/5/2012	4/3/2012	4/3/2012	4/3/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.0099)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.033)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.038)	ND (0.037)	ND (0.037)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.031)	ND (0.030)	ND (0.030)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.053)	ND (0.052)	ND (0.052)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.055)	ND (0.054)	ND (0.054)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.040)	ND (0.039)	ND (0.039)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.032)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.018)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.042)	ND (0.041)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0083)	ND (0.0084)	ND (0.0082)	ND (0.0082)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.040)	ND (0.039)	ND (0.039)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.033)	ND (0.032)	ND (0.032)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0099)	ND (0.0097)	ND (0.0097)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.056)	ND (0.055)	ND (0.054)
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.0095)	ND (0.0094)	ND (0.0093)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	0.0295	J	ND (0.010)
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0058)	ND (0.0057)	ND (0.0057)
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.012)	ND (0.011)	0.0751
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0065)	ND (0.0064)	ND (0.0063)
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0076)	ND (0.0074)	ND (0.0074)
Benzof[a]anthracene	1	11	NC	1	ND (0.011)	0.0276	J	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.0099)	0.0247	J	ND (0.0098)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	0.0361	ND (0.011)	0.593
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	0.0356	ND (0.012)	0.372
Benzof[k]fluoranthene	1	110	NC	2	ND (0.012)	0.0341	ND (0.012)	0.274
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0099)	ND (0.0097)	ND (0.0097)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.029)	ND (0.028)	ND (0.028)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	0.0181
Chrysene	1	110	NC	1	ND (0.011)	0.0358	ND (0.011)	0.432
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.011)	0.122
Dibenzofuran	7	1,000	NC	210	ND (0.0097)	ND (0.0098)	ND (0.0096)	ND (0.0095)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0073)	ND (0.0072)	ND (0.0071)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0038)	ND (0.0038)	ND (0.0037)	ND (0.0037)
Fluoranthene	100	1,000	NC	1,000	ND (0.014)	0.0394	ND (0.014)	0.469
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0091)	ND (0.0090)	ND (0.0089)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0091)	ND (0.0090)	ND (0.0089)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.011)	0.0255	J	ND (0.011)
Isophorone	NC	NC	NC	4	ND (0.0087)	ND (0.0088)	ND (0.0087)	ND (0.0086)
Naphthalene	12	1,000	NC	12	ND (0.0089)	ND (0.0090)	ND (0.0088)	ND (0.0088)
Nitrobenzene	NC	140	40	0.17	ND (0.0094)	ND (0.0095)	ND (0.0093)	ND (0.0093)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0080)	ND (0.0079)	ND (0.0078)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.056)	ND (0.056)	ND (0.055)	ND (0.055)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	ND (0.015)	0.109
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.012)	0.053	ND (0.012)	0.539
Total SVOCs	NC	NC	NC	NC	ND	0.288	ND	3.812

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Sample ID/Depth				RCH-4-ENV-32/6	RCH-4-ENV-33W/3	RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A
	Lab Sample ID				JB3229-9	JB3142-1	JB3142-2	JB3142-7
	Sampling Date				4/3/2012	4/2/2012	4/2/2012	4/2/2012
	Matrix				Soil	Soil	Soil	Soil
	Units				mg/kg	mg/kg	mg/kg	mg/kg
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0098)	ND (0.0095)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.032)	ND (0.034)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.037)	ND (0.036)	ND (0.038)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.029)	ND (0.031)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.050)	ND (0.053)	ND (0.054)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.054)	ND (0.052)	ND (0.056)	ND (0.056)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.038)	ND (0.040)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0099)	ND (0.0096)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.032)	ND (0.031)	ND (0.033)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.017)	ND (0.018)	ND (0.019)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.035)	ND (0.038)	ND (0.038)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.033)	ND (0.035)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.039)	ND (0.042)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0081)	ND (0.0078)	ND (0.0084)	ND (0.0085)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.039)	ND (0.038)	ND (0.040)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.031)	ND (0.033)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.0099)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0096)	ND (0.0093)	ND (0.010)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.054)	ND (0.052)	ND (0.056)	ND (0.057)
Acenaphthene	20	1,000	20	98	ND (0.0093)	ND (0.0089)	ND (0.0096)	ND (0.0097)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.0099)	ND (0.011)	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0056)	ND (0.0054)	ND (0.0058)	ND (0.0059)
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0063)	ND (0.0061)	ND (0.0065)	ND (0.0066)
Benzaldehyde	NC	NC	NC	NC	ND (0.0074)	ND (0.0071)	ND (0.0076)	ND (0.0077)
Benzof[a]anthracene	1	11	NC	1	ND (0.010)	0.0155	J ND (0.011)	ND (0.011)
Benzof[a]pyrene	1	1	2.6	22	ND (0.0098)	0.0200	J ND (0.010)	ND (0.010)
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	0.0178	J ND (0.011)	ND (0.011)
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	0.0149	J ND (0.012)	ND (0.012)
Benzof[k]fluoranthene	1	110	NC	2	ND (0.012)	0.0248	J ND (0.012)	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0096)	ND (0.0093)	ND (0.010)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.028)	ND (0.027)	ND (0.029)	ND (0.030)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.018)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.016)
Chrysene	1	110	NC	1	ND (0.011)	0.0224	J ND (0.011)	ND (0.011)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.0095)	ND (0.0092)	ND (0.0098)	ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.011)	0.0463	J ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0071)	ND (0.0068)	ND (0.0073)	ND (0.0075)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0037)	ND (0.0036)	ND (0.0038)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	ND (0.014)	0.0268	J ND (0.015)	ND (0.015)
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0089)	ND (0.0086)	ND (0.0092)	ND (0.0093)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.031)	ND (0.034)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.0089)	ND (0.0086)	ND (0.0092)	ND (0.0093)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.011)	0.0124	J ND (0.011)	ND (0.012)
Isophorone	NC	NC	NC	4	ND (0.0086)	ND (0.0083)	ND (0.0089)	ND (0.0090)
Naphthalene	12	1,000	NC	12	ND (0.0087)	ND (0.0084)	ND (0.0090)	ND (0.0092)
Nitrobenzene	NC	140	40	0.17	ND (0.0093)	ND (0.0089)	ND (0.0096)	ND (0.0097)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0078)	ND (0.0075)	ND (0.0081)	ND (0.0082)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.018)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.055)	ND (0.053)	ND (0.057)	ND (0.057)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.014)	ND (0.015)	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.032)	ND (0.035)	ND (0.035)
Pyrene	100	1,000	NC	1,000	ND (0.012)	0.0272	J ND (0.013)	ND (0.013)
Total SVOCs	NC	NC	NC	NC	ND	0.155	0.046	ND

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-4-ENV-34/2	RCH-4-ENV-34/5
Sample ID/Depth						
Lab Sample ID					JB3142-10	JB3142-11
Sampling Date					4/2/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0099)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.037)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.055)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.054)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	0.0204 J
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.039)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0082)	ND (0.0086)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.039)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0097)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.054)	ND (0.057)
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.0099)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	0.0276 J
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0060)
Anthracene	100	1,000	NC	1,000	ND (0.011)	0.0755
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0067)
Benzaldehyde	NC	NC	NC	NC	ND (0.0074)	ND (0.0078)
Benzo[a]anthracene	1	11	NC	1	0.0354	0.142
Benzo[a]pyrene	1	1	2.6	22	0.0475	0.129
Benzo[b]fluoranthene	1	11	NC	2	0.0383	0.148
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0302 J	0.0774
Benzo[k]fluoranthene	1	110	NC	2	0.0458	0.113
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0097)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.028)	ND (0.030)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.015)	0.0179 J
Chrysene	1	110	NC	1	0.0426	0.175
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	0.0222 J
Dibenzofuran	7	1,000	NC	210	ND (0.0096)	0.0137 J
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	0.0747	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0076)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.017)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0037)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	0.0531	0.348
Fluorene	30	1,000	30	386	ND (0.011)	0.0232 J
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0095)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.035)
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0095)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.0297 J	0.075
Isophorone	NC	NC	NC	4	ND (0.0087)	ND (0.0091)
Naphthalene	12	1,000	NC	12	ND (0.0088)	0.0159 J
Nitrobenzene	NC	140	40	0.17	ND (0.0093)	ND (0.0098)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0083)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.055)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	0.0155 J	0.229
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.036)
Pyrene	100	1,000	NC	1,000	0.0607	0.321
Total SVOCs	NC	NC	NC	NC	0.413	1.653

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					RCH-4H-ENV-2W/1	RCH-4H-ENV-2W/4	RCH-4H-ENV-3/2.5	RCH-4H-ENV-3/6.5
Sample ID/Depth								
Lab Sample ID					JA86430-2	JA86430-3	JA89714-2	JA89714-3
Sampling Date					9/15/2011	9/15/2011	10/20/2011	10/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.4)	ND (2.5)	ND (2.4)	ND (2.5)
TPH-DRO (C10-C44)	NC	NC	NC	NC	881	40.4	ND (0.37)	ND (0.39)

Notes:

- NC - No Criterion
- ND (2.4) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-4 TRACT PRE-CHARACTERIZATION
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A (Duplicate)
JA89865-1	JA89865-2	JA86559-4	JA86559-5
10/21/2011	10/21/2011	9/19/2011	9/19/2011
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.4)	ND (2.7)	ND (2.5)	ND (2.5)
52.8	ND (12)	27.3	38.5

RCH-4 TRACT PRE-CHARACTERIZATION
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4H-ENV-5W/5.5	RCH-4H-ENV-6/3.5	RCH-4H-ENV-6/7.5	RCH-4H-ENV-7/3.5
JA86559-6	JA90403-2	JA90403-3	JA90574-3
9/19/2011	10/27/2011	10/27/2011	10/28/2011
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.5)	ND (2.4)	ND (2.6)	ND (2.7)
ND (12)	56.7	30.8	17.7

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4H-ENV-7/3.5A	RCH-4H-ENV-7/6.5	RCH-4H-ENV-8W/3.5	RCH-4H-ENV-8W/3.5A (Dup)
JA90574-4	JA90574-5	JA90025-1	JA90025-2
10/28/2011	10/28/2011	10/24/2011	10/24/2011
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.7)	ND (2.6)	14.8	ND (2.3)
12.4	ND (12)	11.6	22.7

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
JA90025-3	JA90684-3	JA90684-4	JA90804-1
10/24/2011	10/31/2011	10/31/2011	11/1/2011
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
	Result	Result	Result
ND (2.4)	ND (2.3)	ND (2.3)	ND (2.4)
41.6	16.6	ND (12)	52.4

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4H-ENV-10/7.0	RCH-4-ENV-19/3	RCH-4-ENV-19/7	RCH-4-ENV-20W/2
JA90804-2	JB3917-1	JB3917-2	JB3809-9
11/1/2011	4/11/2012	4/11/2012	4/10/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.4)	ND (3.2)	ND (2.5)	ND (2.2)
ND (12)	1580	245	549

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3
JB3809-10	JB4278-4	JB4278-5	JB3652-1
4/10/2012	4/16/2012	4/16/2012	4/6/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.4)	23.4	138	ND (3.2)
29.8	457	377	161

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-22/6	RCH-4-ENV-23/1	RCH-4-ENV-23/5	RCH-4-ENV-24/1
JB3652-2	JB3652-8	JB3652-9	JB3809-1
4/6/2012	4/6/2012	4/6/2012	4/10/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.5)	ND (2.5)	ND (2.5)	ND (2.0)
20.2	43.4	14.6	114

RCH-4 TRACT PRE-CHARACTERIZATION
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
JB3809-2	JB3744-1	JB3744-2	JB3744-9
4/10/2012	4/9/2012	4/9/2012	4/9/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.3)	ND (3.1)	ND (2.7)	ND (2.6)
ND (11)	562	18.1	111

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
JB3744-10	JB3514-9	JB3514-10	JB3410-8
4/9/2012	4/5/2012	4/5/2012	4/4/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.9)	ND (2.9)	ND (3.0)	ND (2.5)
29.6	ND (13)	36	ND (12)

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
JB3410-9	JB3410-1	JB3410-2	JB3514-1
4/4/2012	4/4/2012	4/4/2012	4/5/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.6)	ND (2.4)	ND (2.7)	ND (2.4)
ND (12)	29.1	ND (13)	ND (11)

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
JB3514-2	JB3229-1	JB3229-2	JB3229-8
4/5/2012	4/3/2012	4/3/2012	4/3/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.5)	ND (2.4)	ND (2.2)	ND (2.3)
ND (12)	138	ND (11)	59.6

RCH-4 TRACT PRE-CHARACTERIZATION
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-32/6	RCH-4-ENV-33W/3	RCH-4-ENV-33W/7	RCH-4-ENV-33W/7A
JB3229-9	JB3142-1	JB3142-2	JB3142-7
4/3/2012	4/2/2012	4/2/2012	4/2/2012
Soil	Soil	Soil	Soil
mg/kg	mg/kg	mg/kg	mg/kg
Result	Result	Result	Result
ND (2.2)	ND (2.0)	ND (2.4)	ND (2.5)
ND (11)	ND (11)	ND (11)	ND (11)

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

RCH-4-ENV-34/2		RCH-4-ENV-34/5	
JB3142-10		JB3142-11	
4/2/2012		4/2/2012	
Soil		Soil	
mg/kg		mg/kg	
Results		Results	
ND (2.3)		ND (2.6)	
ND (11)		392	

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth	RCH-4H-ENV-4/3.5	RCH-4H-ENV-4/7.5	RCH-4H-ENV-5W/3.5	RCH-4H-ENV-5W/3.5A				
Lab Sample ID	JA89865-1	JA89865-2	JA86559-4	JA86559-5				
Sampling Date	10/21/2011	10/21/2011	9/19/2011	9/19/2011				
Matrix	Soil	Soil	Soil	Soil				
Units	mg/kg	mg/kg	mg/kg	mg/kg				
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00030)	ND (0.00032)	ND (0.00029)	ND (0.00029)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00022)	ND (0.00024)	ND (0.00022)	ND (0.00022)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00058)	ND (0.00052)	ND (0.00052)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00027)	ND (0.00029)	ND (0.00026)	ND (0.00026)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00076)	ND (0.00083)	ND (0.00074)	ND (0.00074)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00054)	ND (0.00059)	ND (0.00053)	ND (0.00053)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00042)	ND (0.00046)	ND (0.00041)	ND (0.00041)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0019)	ND (0.0020)	ND (0.0018)	ND (0.0018)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00032)	ND (0.00029)	ND (0.00029)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00034)	ND (0.00037)	ND (0.00033)	ND (0.00033)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.00025)	ND (0.00022)	ND (0.00022)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00033)	ND (0.00036)	ND (0.00032)	ND (0.00032)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00024)	ND (0.00026)	ND (0.00023)	ND (0.00023)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00023)	ND (0.00021)	ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.072)	ND (0.078)	ND (0.070)	ND (0.070)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0054)	ND (0.0058)	ND (0.0052)	ND (0.0052)
2-Hexanone	NC	NC	NC	NC	ND (0.0031)	ND (0.0033)	ND (0.0030)	ND (0.0030)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0032)	ND (0.0035)	ND (0.0032)	ND (0.0032)
Acetone	0.05	1,000	2.2	0.05	0.0291	0.0315	0.0558	0.0331
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00018)	ND (0.00016)	ND (0.00016)
Bromochloromethane	NC	NC	NC	NC	ND (0.00064)	ND (0.00070)	ND (0.00063)	ND (0.00063)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00030)	ND (0.00027)	ND (0.00027)
Bromoform	NC	NC	NC	NC	ND (0.00093)	ND (0.0010)	ND (0.00091)	ND (0.00091)
Bromomethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00053)	ND (0.00048)	ND (0.00047)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00024)	ND (0.00026)	0.0014	0.0013
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00043)	ND (0.00047)	ND (0.00042)	ND (0.00042)
Chlorobenzene	1	1,000	40	1	ND (0.00040)	ND (0.00043)	ND (0.00039)	ND (0.00039)
Chloroethane	NC	NC	NC	1.9	ND (0.00050)	ND (0.00055)	ND (0.00049)	ND (0.00049)
Chloroform	0.37	700	12	0.37	ND (0.00060)	ND (0.00065)	ND (0.00058)	ND (0.00058)
Chloromethane	NC	NC	NC	NC	ND (0.00077)	ND (0.00084)	ND (0.00075)	ND (0.00075)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00040)	ND (0.00043)	ND (0.00039)	ND (0.00039)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00020)	ND (0.00018)	ND (0.00018)
Cyclohexane	NC	NC	NC	NC	ND (0.00047)	ND (0.00051)	ND (0.00046)	ND (0.00046)
Dibromochloromethane	NC	NC	10	NC	ND (0.00021)	ND (0.00023)	ND (0.00020)	ND (0.00020)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00040)	ND (0.00043)	ND (0.00039)	ND (0.00039)
Ethylbenzene	1	780	NC	1	0.00029	0.00029	0.00041	0.00041
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00089)	ND (0.00097)	ND (0.00087)	ND (0.00086)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	ND (0.00018)	ND (0.00017)	ND (0.00017)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00099	0.00099	0.0017	0.00066
Methyl acetate	NC	NC	NC	NC	ND (0.00027)	ND (0.00030)	ND (0.00027)	ND (0.00027)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.00033)	ND (0.00030)	ND (0.00030)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00028)	ND (0.00031)	ND (0.00028)	ND (0.00028)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.00024)	ND (0.00022)	ND (0.00022)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00024	0.00025	0.00064	0.00022
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00023)	ND (0.00025)	ND (0.00022)	ND (0.00022)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00024)	ND (0.00026)	ND (0.00023)	ND (0.00023)
Toluene	0.7	1,000	36	0.7	ND (0.00047)	ND (0.00051)	0.0011	0.00049
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00052)	ND (0.00057)	ND (0.00051)	ND (0.00051)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00042)	ND (0.00045)	ND (0.00041)	ND (0.00040)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00031)	ND (0.00033)	ND (0.00030)	ND (0.00030)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00060)	ND (0.00065)	ND (0.00058)	ND (0.00058)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00057)	ND (0.00062)	ND (0.00056)	ND (0.00056)
Xylene (total)	0.26	1,000	0.26	1.6	0.0012	0.0012	0.0023	0.00066
Total VOCs	NC	NC	NC	NC	0.031	0.032	0.061	0.036

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID	RCH-4H-ENV-5W/5.5		RCH-4H-ENV-6/3.5		RCH-4H-ENV-6/7.5		RCH-4H-ENV-7/3.5	
Sampling Date	JA86559-6 9/19/2011		JA90403-2 10/27/2011		JA90403-3 10/27/2011		JA90574-3 10/28/2011	
Matrix	Soil		Soil		Soil		Soil	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00028)	ND (0.00031)	ND (0.00031)	ND (0.00034)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00021)	ND (0.00023)	ND (0.00023)	ND (0.00025)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00056)	ND (0.00055)	ND (0.00061)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00028)	ND (0.00028)	ND (0.00031)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00071)	ND (0.00079)	ND (0.00078)	ND (0.00086)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00051)	ND (0.00056)	ND (0.00056)	ND (0.00062)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00040)	ND (0.00044)	ND (0.00043)	ND (0.00048)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0019)	ND (0.0019)	ND (0.0021)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00031)	ND (0.00030)	ND (0.00033)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00032)	ND (0.00036)	ND (0.00035)	ND (0.00039)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00023)	ND (0.00023)	ND (0.00026)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00031)	ND (0.00034)	ND (0.00034)	ND (0.00037)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00025)	ND (0.00024)	ND (0.00027)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)	ND (0.00022)	ND (0.00022)	ND (0.00024)
1,4-Dioxane	0.1	250	1	0.1	ND (0.067)	ND (0.075)	ND (0.074)	ND (0.082)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0050)	ND (0.0056)	ND (0.0055)	ND (0.0061)
2-Hexanone	NC	NC	NC	NC	ND (0.0029)	ND (0.0032)	ND (0.0032)	ND (0.0035)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0030)	ND (0.0034)	ND (0.0033)	ND (0.0037)
Acetone	0.05	1,000	2.2	0.05	0.016	ND (0.0085)	0.0139	ND (0.0093)
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00017)	ND (0.00017)	ND (0.00019)
Bromochloromethane	NC	NC	NC	NC	ND (0.00060)	ND (0.00067)	ND (0.00066)	ND (0.00073)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00029)	ND (0.00028)	ND (0.00031)
Bromoform	NC	NC	NC	NC	ND (0.00087)	ND (0.00097)	ND (0.00096)	ND (0.0011)
Bromomethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00051)	ND (0.00050)	ND (0.00055)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00023)	ND (0.00025)	ND (0.00025)	ND (0.00028)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00040)	ND (0.00044)	ND (0.00044)	ND (0.00049)
Chlorobenzene	1	1,000	40	1	ND (0.00037)	ND (0.00041)	ND (0.00041)	ND (0.00045)
Chloroethane	NC	NC	NC	1.9	ND (0.00047)	ND (0.00052)	ND (0.00052)	ND (0.00057)
Chloroform	0.37	700	12	0.37	ND (0.00056)	ND (0.00062)	ND (0.00061)	ND (0.00068)
Chloromethane	NC	NC	NC	NC	ND (0.00072)	ND (0.00080)	ND (0.00079)	ND (0.00088)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00037)	ND (0.00041)	ND (0.00041)	ND (0.00045)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00020)	ND (0.00019)	ND (0.00021)
Cyclohexane	NC	NC	NC	NC	ND (0.00044)	ND (0.00049)	ND (0.00048)	ND (0.00053)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00022)	ND (0.00021)	ND (0.00024)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00041)	ND (0.00041)	ND (0.00045)
Ethylbenzene	1	780	NC	1	0.00019	ND (0.00019)	ND (0.00019)	ND (0.00021)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00083)	ND (0.00092)	ND (0.00091)	ND (0.0010)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00016)	ND (0.00018)	ND (0.00017)	ND (0.00019)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00077	J 0.00078	J ND (0.00040)	ND (0.00044)
Methyl acetate	NC	NC	NC	NC	ND (0.00026)	ND (0.00029)	ND (0.00028)	ND (0.00031)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.00031)	ND (0.00031)	ND (0.00034)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00027)	ND (0.00030)	ND (0.00029)	ND (0.00032)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00021)	ND (0.00023)	ND (0.00023)	ND (0.00025)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00031	J 0.00031	J ND (0.00023)	ND (0.00026)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00021)	ND (0.00024)	ND (0.00024)	ND (0.00026)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00022)	ND (0.00025)	ND (0.00024)	ND (0.00027)
Toluene	0.7	1,000	36	0.7	0.0007	J ND (0.00049)	ND (0.00048)	ND (0.00053)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00049)	ND (0.00054)	ND (0.00054)	ND (0.00060)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00039)	ND (0.00043)	ND (0.00043)	ND (0.00047)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00029)	ND (0.00032)	ND (0.00031)	ND (0.00035)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00062)	ND (0.00061)	ND (0.00068)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00053)	ND (0.00059)	ND (0.00059)	ND (0.00065)
Xylene (total)	0.26	1,000	0.26	1.6	0.0011	J 0.0011	ND (0.00023)	ND (0.00026)
Total VOCs	NC	NC	NC	NC	0.018	0.001	0.014	ND

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4H-ENV-8W/7	RCH-4H-ENV-9/3.5	RCH-4H-ENV-9/7	RCH-4H-ENV-10/3.5
Lab Sample ID					JA90025-3	JA90684-3	JA90684-4	JA90804-1
Sampling Date					10/24/2011	10/31/2011	10/31/2011	11/1/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00027)	ND (0.00031)	ND (0.00031)	ND (0.00031)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)	ND (0.00023)	ND (0.00023)	ND (0.00023)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00056)	ND (0.00056)	ND (0.00056)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00024)	ND (0.00028)	ND (0.00028)	ND (0.00028)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00068)	ND (0.00080)	ND (0.00079)	ND (0.00079)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00049)	ND (0.00057)	ND (0.00056)	ND (0.00056)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00038)	ND (0.00044)	ND (0.00044)	ND (0.00044)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0020)	ND (0.0019)	ND (0.0019)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00031)	ND (0.00031)	ND (0.00031)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)	ND (0.00036)	ND (0.00036)	ND (0.00036)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00020)	ND (0.00024)	ND (0.00023)	ND (0.00023)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00029)	ND (0.00035)	ND (0.00034)	ND (0.00034)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00021)	ND (0.00025)	ND (0.00025)	ND (0.00025)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)	ND (0.00022)	ND (0.00022)	ND (0.00022)
1,4-Dioxane	0.1	250	1	0.1	ND (0.065)	ND (0.076)	ND (0.075)	ND (0.075)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0048)	ND (0.0056)	ND (0.0056)	ND (0.0056)
2-Hexanone	NC	NC	NC	NC	ND (0.0027)	ND (0.0032)	ND (0.0032)	ND (0.0032)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0029)	ND (0.0034)	ND (0.0034)	ND (0.0034)
Acetone	0.05	1,000	2.2	0.05	ND (0.0073)	ND (0.0086)	ND (0.0085)	ND (0.0085)
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00017)	ND (0.00017)	ND (0.00017)
Bromochloromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00068)	ND (0.00067)	ND (0.00067)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00029)	ND (0.00029)	ND (0.00029)
Bromoform	NC	NC	NC	NC	ND (0.00084)	ND (0.00098)	ND (0.00097)	ND (0.00097)
Bromomethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00051)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00022)	ND (0.00026)	ND (0.00025)	ND (0.00025)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00038)	ND (0.00045)	ND (0.00044)	ND (0.00045)
Chlorobenzene	1	1,000	40	1	ND (0.00036)	ND (0.00042)	ND (0.00041)	ND (0.00041)
Chloroethane	NC	NC	NC	1.9	ND (0.00045)	ND (0.00053)	ND (0.00052)	ND (0.00053)
Chloroform	0.37	700	12	0.37	ND (0.00054)	ND (0.00063)	ND (0.00062)	ND (0.00062)
Chloromethane	NC	NC	NC	NC	ND (0.00069)	ND (0.00081)	ND (0.00080)	ND (0.00080)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)	ND (0.00042)	ND (0.00041)	ND (0.00041)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Cyclohexane	NC	NC	NC	NC	ND (0.00042)	ND (0.00049)	ND (0.00049)	ND (0.00049)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00022)	ND (0.00022)	ND (0.00022)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00042)	ND (0.00041)	ND (0.00041)
Ethylbenzene	1	780	NC	1	ND (0.00016)	ND (0.00019)	ND (0.00019)	ND (0.00019)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00079)	ND (0.00093)	ND (0.00092)	ND (0.00092)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)	ND (0.00018)	ND (0.00018)	ND (0.00018)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00035)	ND (0.00041)	ND (0.00040)	ND (0.00040)
Methyl acetate	NC	NC	NC	NC	ND (0.00025)	ND (0.00029)	ND (0.00028)	ND (0.00029)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00027)	ND (0.00032)	ND (0.00031)	ND (0.00032)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00025)	ND (0.00030)	ND (0.00030)	ND (0.00030)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00023)	ND (0.00023)	ND (0.00023)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00024)	ND (0.00024)	ND (0.00024)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00021)	ND (0.00024)	ND (0.00024)	ND (0.00024)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00021)	ND (0.00025)	ND (0.00025)	ND (0.00025)
Toluene	0.7	1,000	36	0.7	ND (0.00042)	ND (0.00049)	ND (0.00048)	ND (0.00049)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00047)	ND (0.00055)	ND (0.00054)	ND (0.00055)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00037)	ND (0.00044)	ND (0.00043)	ND (0.00043)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00027)	ND (0.00032)	ND (0.00032)	ND (0.00032)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00053)	ND (0.00063)	ND (0.00062)	ND (0.00062)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00051)	ND (0.00060)	ND (0.00059)	ND (0.00059)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00020)	ND (0.00024)	ND (0.00024)	ND (0.00024)
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth	RCH-4-ENV-20W/7	RCH-4-ENV-21.1/3	RCH-4-ENV-21.1/4	RCH-4-ENV-22/3				
Lab Sample ID	JB3809-10	JB4278-4	JB4278-5	JB3652-1				
Sampling Date	4/10/2012	4/16/2012	4/16/2012	4/6/2012				
Matrix	Soil	Soil	Soil	Soil				
Units	mg/kg	mg/kg	mg/kg	mg/kg				
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00029)	ND (0.00031)	ND (0.00031)	0.0033 J
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00022)	ND (0.00023)	ND (0.00023)	ND (0.00029)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00056)	ND (0.00056)	ND (0.00069)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.00028)	ND (0.00028)	ND (0.00035)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00074)	ND (0.00079)	ND (0.00080)	ND (0.00098)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00053)	ND (0.00056)	ND (0.00057)	ND (0.00070)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00041)	ND (0.00044)	ND (0.00044)	ND (0.00054)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0020)	ND (0.0024)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00031)	ND (0.00031)	ND (0.00038)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00033)	ND (0.00036)	ND (0.00036)	ND (0.00044)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.00023)	ND (0.00024)	ND (0.00029)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00032)	ND (0.00034)	ND (0.00035)	ND (0.00042)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.00025)	ND (0.00025)	ND (0.00031)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00022)	ND (0.00022)	ND (0.00027)
1,4-Dioxane	0.1	250	1	0.1	ND (0.070)	ND (0.075)	ND (0.076)	ND (0.093)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0052)	ND (0.0056)	0.0128 J	0.0484
2-Hexanone	NC	NC	NC	NC	ND (0.0030)	ND (0.0032)	ND (0.0032)	ND (0.0040)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0032)	ND (0.0034)	ND (0.0034)	ND (0.0042)
Acetone	0.05	1,000	2.2	0.05	0.0503	0.0491	0.127	0.281
Benzene	0.06	89	70	0.06	ND (0.018)	ND (0.019)	ND (0.020)	ND (0.024)
Bromochloromethane	NC	NC	NC	NC	ND (0.0080)	ND (0.0086)	ND (0.0087)	ND (0.011)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00016)	0.0005 J	0.00063 J	ND (0.00021)
Bromoform	NC	NC	NC	NC	ND (0.00063)	ND (0.00067)	ND (0.00068)	ND (0.00083)
Bromomethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00029)	ND (0.00029)	ND (0.00036)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00091)	ND (0.00097)	ND (0.00098)	ND (0.0012)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00048)	ND (0.00051)	ND (0.00051)	ND (0.00063)
Chlorobenzene	1	1,000	40	1	ND (0.00024)	0.0048 J	0.003 J	0.0015 J
Chloroethane	NC	NC	NC	1.9	ND (0.00042)	ND (0.00045)	ND (0.00045)	ND (0.00055)
Chloroform	0.37	700	12	0.37	ND (0.00039)	ND (0.00042)	ND (0.00042)	ND (0.00051)
Chloromethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00053)	ND (0.00053)	ND (0.00065)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00058)	ND (0.00042)	ND (0.00042)	ND (0.00077)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00075)	ND (0.00020)	ND (0.00020)	ND (0.00024)
Cyclohexane	NC	NC	NC	NC	ND (0.00039)	ND (0.00049)	ND (0.00049)	ND (0.00060)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00022)	ND (0.00022)	ND (0.00027)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00041)	ND (0.00042)	ND (0.00051)
Ethylbenzene	1	780	NC	1	0.0002 J	0.00055 J	0.0002 J	ND (0.00024)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00087)	ND (0.00092)	ND (0.00093)	ND (0.0011)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	0.00093 J	ND (0.00018)	ND (0.00022)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.0044 J	0.0012 J	0.00057 J	ND (0.00050)
Methyl acetate	NC	NC	NC	NC	ND (0.0027)	ND (0.0029)	ND (0.0029)	ND (0.0035)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.00032)	ND (0.00032)	ND (0.00039)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00028)	ND (0.00030)	ND (0.00030)	ND (0.00037)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.00023)	ND (0.00023)	ND (0.00029)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00024 J	0.00078 J	0.00033 J	ND (0.00029)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.00024)	ND (0.00024)	ND (0.00029)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00023)	ND (0.00025)	ND (0.00025)	ND (0.00030)
Toluene	0.7	1,000	36	0.7	0.002	0.0028	0.00088 J	0.0013
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00051)	ND (0.00055)	ND (0.00055)	ND (0.00068)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00041)	ND (0.00043)	ND (0.00044)	ND (0.00054)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00030)	ND (0.00032)	ND (0.00032)	0.0084 J
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00062)	ND (0.00063)	ND (0.00077)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00056)	ND (0.00059)	ND (0.00060)	ND (0.00073)
Xylene (total)	0.26	1,000	0.26	1.6	0.0068 J	0.002	0.0009 J	ND (0.00029)
Total VOCs	NC	NC	NC	NC	0.053	0.061	0.145	0.336

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth	RCH-4-ENV-22/6		RCH-4-ENV-23/1		RCH-4-ENV-23/5		RCH-4-ENV-24/1	
Lab Sample ID	JB3652-2		JB3652-8		JB3652-9		JB3809-1	
Sampling Date	4/6/2012		4/6/2012		4/6/2012		4/10/2012	
Matrix	Soil		Soil		Soil		Soil	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00032)	0.0025 J	ND (0.00032)	ND (0.00028)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00024)	ND (0.00023)	ND (0.00024)	ND (0.00021)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00057)	ND (0.00057)	ND (0.00057)	ND (0.00051)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00029)	ND (0.00028)	ND (0.00029)	ND (0.00026)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00081)	ND (0.00080)	ND (0.00081)	ND (0.00072)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00058)	ND (0.00057)	ND (0.00058)	ND (0.00051)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	0.0041	J 0.00091	J 0.002	J ND (0.00040)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0018)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00031)	ND (0.00031)	ND (0.00028)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00037)	ND (0.00036)	ND (0.00037)	ND (0.00032)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00024)	ND (0.00024)	ND (0.00024)	ND (0.00021)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00031)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00022)
1,4-Dichlorobenzene	2	250	20	2	0.00076	J ND (0.00022)	0.00043	J ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.077)	ND (0.076)	ND (0.077)	ND (0.068)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0057)	ND (0.0057)	ND (0.0057)	ND (0.0051)
2-Hexanone	NC	NC	NC	NC	ND (0.0033)	ND (0.0032)	ND (0.0033)	ND (0.0029)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0035)	ND (0.0034)	ND (0.0035)	ND (0.0031)
Acetone	0.05	1,000	2.2	0.05	0.0178	ND (0.0086)	0.0605	ND (0.0078)
Benzene	0.06	89	70	0.06	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.0016)
Bromochloromethane	NC	NC	NC	NC	ND (0.0088)	ND (0.0087)	ND (0.0088)	ND (0.0061)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00018)	0.00049	J ND (0.00018)	ND (0.00026)
Bromoform	NC	NC	NC	NC	ND (0.00068)	ND (0.00068)	ND (0.00068)	ND (0.00088)
Bromomethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00029)	ND (0.00030)	ND (0.00046)
Carbon disulfide	NC	NC	NC	2.7	ND (0.0010)	ND (0.00099)	ND (0.0010)	ND (0.00023)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00052)	ND (0.00051)	ND (0.00052)	ND (0.00041)
Chlorobenzene	1	1,000	40	1	0.00036	J 0.00028	J ND (0.00026)	ND (0.00038)
Chloroethane	NC	NC	NC	1.9	ND (0.00046)	ND (0.00045)	ND (0.00046)	ND (0.00048)
Chloroform	0.37	700	12	0.37	ND (0.00042)	ND (0.00042)	ND (0.00043)	ND (0.00057)
Chloromethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00053)	ND (0.00054)	ND (0.00073)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00064)	ND (0.00063)	ND (0.00064)	ND (0.00038)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)	ND (0.00081)	ND (0.00082)	ND (0.00018)
Cyclohexane	NC	NC	NC	NC	ND (0.00050)	0.00068	J ND (0.00043)	ND (0.00044)
Dibromochloromethane	NC	NC	10	NC	ND (0.00022)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00042)	ND (0.00042)	ND (0.00042)	ND (0.00038)
Ethylbenzene	1	780	NC	1	ND (0.00020)	0.00058	J ND (0.00020)	ND (0.00017)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00095)	ND (0.00094)	ND (0.00095)	ND (0.00084)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00018)	ND (0.00018)	ND (0.00018)	ND (0.00016)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00041)	0.0011	J ND (0.00041)	ND (0.00037)
Methyl acetate	NC	NC	NC	NC	ND (0.00029)	ND (0.00029)	ND (0.00029)	ND (0.00026)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00032)	ND (0.00032)	ND (0.00032)	ND (0.00029)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00027)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00024)	ND (0.00023)	ND (0.00024)	ND (0.00021)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)	0.00051	J ND (0.00024)	ND (0.00022)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00024)	ND (0.00024)	ND (0.00024)	ND (0.00022)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00025)	ND (0.00025)	ND (0.00025)	ND (0.00022)
Toluene	0.7	1,000	36	0.7	ND (0.00050)	0.0013	0.00051	J 0.00091
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00056)	ND (0.00055)	ND (0.00056)	ND (0.00050)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00044)	ND (0.00044)	ND (0.00044)	ND (0.00039)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00033)	0.0088	0.00056	J ND (0.00029)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00064)	ND (0.00063)	ND (0.00064)	ND (0.00056)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00061)	ND (0.00060)	ND (0.00061)	ND (0.00054)
Xylene (total)	0.26	1,000	0.26	1.6	0.00035	0.0016	0.00036	J ND (0.00022)
Total VOCs	NC	NC	NC	NC	0.023	J 0.017	0.064	0.001

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-24/7	RCH-4-ENV-25W/2	RCH-4-ENV-25W/7	RCH-4-ENV-26/1
Lab Sample ID					JB3809-2	JB3744-1	JB3744-2	JB3744-9
Sampling Date					4/10/2012	4/9/2012	4/9/2012	4/9/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00032)	RCH-4-ENV-25W/2	ND (0.00034)	ND (0.00032)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00023)		ND (0.00026)	ND (0.00024)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00057)		ND (0.00063)	ND (0.00057)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00029)		ND (0.00032)	ND (0.00029)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00080)		ND (0.00090)	ND (0.00081)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00057)		ND (0.00064)	ND (0.00058)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00045)		ND (0.00050)	ND (0.00045)
1,2,4-Trimethylbenzene	4	380	NC	4	NA		NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0020)		ND (0.0022)	ND (0.0020)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00031)		ND (0.00035)	ND (0.00031)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00036)		ND (0.00041)	ND (0.00036)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00024)		ND (0.00027)	ND (0.00024)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00035)		ND (0.00039)	ND (0.00035)
1,3,5-Trimethylbenzene	8	380	NC	8	NA		NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)		ND (0.00028)	ND (0.00025)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00022)		ND (0.00025)	ND (0.00022)
1,4-Dioxane	0.1	250	1	0.1	ND (0.076)		ND (0.085)	ND (0.077)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0057)		ND (0.0063)	ND (0.0057)
2-Hexanone	NC	NC	NC	NC	ND (0.0032)		ND (0.0036)	ND (0.0033)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0034)		ND (0.0039)	ND (0.0035)
Acetone	0.05	1,000	2.2	0.05	0.0469		ND (0.0097)	0.0485
Benzene	0.06	89	70	0.06	ND (0.00017)		ND (0.00019)	ND (0.00018)
Bromochloromethane	NC	NC	NC	NC	ND (0.00068)		ND (0.00076)	ND (0.00068)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00029)		ND (0.00033)	ND (0.00029)
Bromoform	NC	NC	NC	NC	ND (0.00099)		ND (0.0011)	ND (0.00099)
Bromomethane	NC	NC	NC	NC	ND (0.00052)		ND (0.00058)	ND (0.00052)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00026)		ND (0.00029)	ND (0.00026)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00045)		ND (0.00051)	ND (0.00046)
Chlorobenzene	1	1,000	40	1	ND (0.00042)		ND (0.00047)	ND (0.00042)
Chloroethane	NC	NC	NC	1.9	ND (0.00053)		ND (0.00060)	ND (0.00054)
Chloroform	0.37	700	12	0.37	ND (0.00063)		ND (0.00071)	ND (0.00064)
Chloromethane	NC	NC	NC	NC	ND (0.00082)		ND (0.00091)	ND (0.00082)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00042)		ND (0.00047)	ND (0.00042)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)		ND (0.00022)	ND (0.00020)
Cyclohexane	NC	NC	NC	NC	ND (0.00050)		ND (0.00055)	ND (0.00050)
Dibromochloromethane	NC	NC	10	NC	ND (0.00022)		ND (0.00025)	ND (0.00022)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00042)		ND (0.00047)	ND (0.00042)
Ethylbenzene	1	780	NC	1	ND (0.00019)		ND (0.00022)	ND (0.00019)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00094)		ND (0.0010)	ND (0.00094)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00018)		ND (0.00020)	ND (0.00018)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00041)		ND (0.00046)	ND (0.00041)
Methyl acetate	NC	NC	NC	NC	ND (0.00029)		ND (0.00032)	ND (0.00029)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00032)		ND (0.00036)	ND (0.00032)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00030)		ND (0.00034)	ND (0.00030)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00023)		ND (0.00026)	ND (0.00024)
n-Butylbenzene	12	1,000	NC	12	NA		NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA		NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)		ND (0.00027)	ND (0.00024)
p-Isopropyltoluene	NC	NC	NC	NC	NA		NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA		NA	NA
Styrene	NC	NC	300	NC	ND (0.00024)		ND (0.00027)	ND (0.00024)
tert-Butylbenzene	5.9	1,000	NC	6	NA		NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00025)		ND (0.00028)	ND (0.00025)
Toluene	0.7	1,000	36	0.7	0.0019		ND (0.00055)	0.00067 J
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00055)		ND (0.00062)	ND (0.00055)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00044)		ND (0.00049)	ND (0.00044)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00032)		ND (0.00036)	ND (0.00032)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00063)		ND (0.00071)	ND (0.00063)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00060)		ND (0.00067)	ND (0.00061)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00024)		ND (0.00027)	ND (0.00024)
Total VOCs	NC	NC	NC	NC	0.049		ND	0.049

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-26/6	RCH-4-ENV-27/1	RCH-4-ENV-27/6	RCH-4-ENV-28/2
Lab Sample ID					JB3744-10	JB3514-9	JB3514-10	JB3410-8
Sampling Date					4/9/2012	4/5/2012	4/5/2012	4/4/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00035)	ND (0.00030)	ND (0.00028)	ND (0.00027)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00026)	ND (0.00023)	ND (0.00021)	ND (0.00020)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00062)	ND (0.00055)	ND (0.00050)	ND (0.00048)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00031)	ND (0.00028)	ND (0.00025)	ND (0.00024)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00088)	ND (0.00077)	ND (0.00071)	ND (0.00068)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00063)	ND (0.00055)	ND (0.00051)	ND (0.00048)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00049)	ND (0.00043)	ND (0.00040)	ND (0.00038)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0022)	ND (0.0019)	ND (0.0018)	ND (0.0017)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00030)	ND (0.00028)	ND (0.00026)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00040)	ND (0.00035)	ND (0.00032)	ND (0.00031)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00026)	ND (0.00023)	ND (0.00021)	ND (0.00020)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00038)	ND (0.00034)	ND (0.00031)	ND (0.00029)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00028)	ND (0.00024)	ND (0.00022)	ND (0.00021)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00024)	ND (0.00021)	ND (0.00020)	ND (0.00019)
1,4-Dioxane	0.1	250	1	0.1	ND (0.084)	ND (0.074)	ND (0.068)	ND (0.064)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0062)	ND (0.0055)	ND (0.0050)	ND (0.0048)
2-Hexanone	NC	NC	NC	NC	ND (0.0036)	ND (0.0031)	ND (0.0029)	ND (0.0027)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0038)	ND (0.0033)	ND (0.0031)	ND (0.0029)
Acetone	0.05	1,000	2.2	0.05	0.0132	ND (0.0084)	ND (0.0077)	ND (0.0073)
Benzene	0.06	89	70	0.06	ND (0.00019)	ND (0.00017)	ND (0.00015)	ND (0.00015)
Bromochloromethane	NC	NC	NC	NC	ND (0.00075)	ND (0.00066)	ND (0.00060)	ND (0.00057)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00028)	ND (0.00026)	ND (0.00025)
Bromoform	NC	NC	NC	NC	ND (0.0011)	ND (0.00095)	ND (0.00088)	ND (0.00084)
Bromomethane	NC	NC	NC	NC	ND (0.00057)	ND (0.00050)	ND (0.00046)	ND (0.00044)
Carbon disulfide	NC	NC	NC	2.7	0.00038	ND (0.00025)	ND (0.00023)	ND (0.00022)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00050)	ND (0.00044)	ND (0.00040)	ND (0.00038)
Chlorobenzene	1	1,000	40	1	ND (0.00046)	ND (0.00041)	ND (0.00037)	ND (0.00036)
Chloroethane	NC	NC	NC	1.9	ND (0.00059)	ND (0.00052)	ND (0.00047)	ND (0.00045)
Chloroform	0.37	700	12	0.37	ND (0.00070)	ND (0.00061)	ND (0.00056)	ND (0.00053)
Chloromethane	NC	NC	NC	NC	ND (0.00090)	ND (0.00079)	ND (0.00072)	ND (0.00069)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00046)	ND (0.00041)	ND (0.00037)	ND (0.00036)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00022)	ND (0.00019)	ND (0.00018)	ND (0.00017)
Cyclohexane	NC	NC	NC	NC	ND (0.00055)	ND (0.00048)	ND (0.00044)	ND (0.00042)
Dibromochloromethane	NC	NC	10	NC	ND (0.00024)	ND (0.00021)	ND (0.00020)	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00041)	ND (0.00037)	ND (0.00036)
Ethylbenzene	1	780	NC	1	ND (0.00021)	ND (0.00019)	ND (0.00017)	ND (0.00016)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.0010)	ND (0.00091)	ND (0.00083)	ND (0.00079)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00020)	ND (0.00017)	ND (0.00016)	ND (0.00015)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00045)	ND (0.00040)	ND (0.00036)	0.00061 J
Methyl acetate	NC	NC	NC	NC	ND (0.0032)	ND (0.0028)	ND (0.0026)	ND (0.0025)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00035)	ND (0.00031)	ND (0.00028)	ND (0.00027)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00033)	ND (0.00029)	ND (0.00027)	ND (0.00025)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00026)	ND (0.00023)	ND (0.00021)	ND (0.00020)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00027)	ND (0.00023)	ND (0.00021)	ND (0.00020)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00027)	ND (0.00023)	ND (0.00021)	ND (0.00020)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00028)	ND (0.00024)	ND (0.00022)	ND (0.00021)
Toluene	0.7	1,000	36	0.7	ND (0.00054)	ND (0.00048)	0.00047 J	0.0013
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00061)	ND (0.00054)	ND (0.00049)	ND (0.00047)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00048)	ND (0.00042)	ND (0.00039)	ND (0.00037)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00036)	ND (0.00031)	ND (0.00029)	ND (0.00027)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00069)	ND (0.00061)	ND (0.00056)	ND (0.00053)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00066)	ND (0.00058)	ND (0.00054)	ND (0.00051)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00027)	ND (0.00023)	ND (0.00021)	0.00061 J
Total VOCs	NC	NC	NC	NC	0.014	ND	0.0005	0.002

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-28/7	RCH-4-ENV-29W/1	RCH-4-ENV-29W/7	RCH-4-ENV-30/1
Lab Sample ID					JB3410-9	JB3410-1	JB3410-2	JB3514-1
Sampling Date					4/4/2012	4/4/2012	4/4/2012	4/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	RCH-4-ENV-28/7	ND (0.00029)	ND (0.00031)	ND (0.00027)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)	ND (0.00021)	ND (0.00023)	ND (0.00020)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00051)	ND (0.00057)	ND (0.00048)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00026)	ND (0.00028)	ND (0.00024)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00069)	ND (0.00073)	ND (0.00080)	ND (0.00068)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00049)	ND (0.00052)	ND (0.00057)	ND (0.00048)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00038)	ND (0.00041)	ND (0.00045)	ND (0.00038)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0018)	ND (0.0020)	ND (0.0017)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00031)	ND (0.00026)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)	ND (0.00033)	ND (0.00036)	ND (0.00031)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00020)	ND (0.00022)	ND (0.00024)	ND (0.00020)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00030)	ND (0.00032)	ND (0.00035)	ND (0.00029)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00021)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)	ND (0.00020)	ND (0.00022)	ND (0.00019)
1,4-Dioxane	0.1	250	1	0.1	ND (0.066)	ND (0.069)	ND (0.076)	ND (0.064)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0049)	ND (0.0051)	ND (0.0057)	ND (0.0048)
2-Hexanone	NC	NC	NC	NC	ND (0.0028)	ND (0.0029)	ND (0.0032)	ND (0.0027)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0030)	ND (0.0031)	ND (0.0034)	ND (0.0029)
Acetone	0.05	1,000	2.2	0.05	ND (0.0075)	ND (0.0079)	ND (0.0087)	ND (0.0073)
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00016)	ND (0.00017)	ND (0.00015)
Bromochloromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00062)	ND (0.00068)	ND (0.00057)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00027)	ND (0.00029)	ND (0.00025)
Bromoform	NC	NC	NC	NC	ND (0.00085)	ND (0.00090)	ND (0.00099)	ND (0.00083)
Bromomethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00047)	ND (0.00051)	ND (0.00043)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00022)	ND (0.00023)	ND (0.00026)	ND (0.00022)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00039)	ND (0.00041)	ND (0.00045)	ND (0.00038)
Chlorobenzene	1	1,000	40	1	ND (0.00036)	ND (0.00038)	ND (0.00042)	ND (0.00036)
Chloroethane	NC	NC	NC	1.9	ND (0.00046)	ND (0.00049)	ND (0.00053)	ND (0.00045)
Chloroform	0.37	700	12	0.37	ND (0.00054)	ND (0.00057)	ND (0.00063)	ND (0.00053)
Chloromethane	NC	NC	NC	NC	ND (0.00070)	ND (0.00074)	ND (0.00081)	ND (0.00069)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)	ND (0.00038)	ND (0.00042)	ND (0.00036)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00018)	ND (0.00020)	ND (0.00017)
Cyclohexane	NC	NC	NC	NC	ND (0.00043)	ND (0.00045)	ND (0.00049)	ND (0.00042)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00020)	ND (0.00022)	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00038)	ND (0.00042)	ND (0.00035)
Ethylbenzene	1	780	NC	1	ND (0.00017)	0.00027	ND (0.00019)	ND (0.00016)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00081)	ND (0.00085)	ND (0.00094)	ND (0.00079)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)	ND (0.00016)	ND (0.00018)	ND (0.00015)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00045	J 0.00082	J 0.00061	J ND (0.00035)
Methyl acetate	NC	NC	NC	NC	ND (0.00025)	ND (0.00026)	ND (0.00029)	ND (0.00024)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.00029)	ND (0.00032)	ND (0.00027)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00026)	ND (0.00027)	ND (0.00030)	ND (0.00025)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00021)	ND (0.00023)	ND (0.00020)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	0.00026	J ND (0.00024)	ND (0.00020)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00021)	ND (0.00022)	ND (0.00024)	ND (0.00020)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00021)
Toluene	0.7	1,000	36	0.7	0.00064	J 0.0012	ND (0.00049)	ND (0.00042)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00048)	ND (0.00050)	ND (0.00055)	ND (0.00047)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)	ND (0.00040)	ND (0.00044)	ND (0.00037)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00028)	ND (0.00029)	ND (0.00032)	ND (0.00027)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00057)	ND (0.00063)	ND (0.00053)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00052)	ND (0.00055)	ND (0.00060)	ND (0.00051)
Xylene (total)	0.26	1,000	0.26	1.6	0.00045	J 0.0011	J 0.00061	J ND (0.00020)
Total VOCs	NC	NC	NC	NC	0.001	0.003	0.001	ND

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NC - No Criterion
NA - Not Analyzed
ND (0.00031) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-30/5	RCH-4-ENV-31/1	RCH-4-ENV-31/7	RCH-4-ENV-32/1
Lab Sample ID					JB3514-2	JB3229-1	JB3229-2	JB3229-8
Sampling Date					4/5/2012	4/3/2012	4/3/2012	4/3/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	RCH-4-ENV-30/5	ND (0.00030)	ND (0.00028)	ND (0.00028)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00021)	ND (0.00022)	ND (0.00021)	ND (0.00021)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00053)	ND (0.00051)	ND (0.00050)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00027)	ND (0.00026)	ND (0.00025)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00071)	ND (0.00075)	ND (0.00072)	ND (0.00070)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00051)	ND (0.00054)	ND (0.00051)	ND (0.00050)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00040)	ND (0.00042)	ND (0.00040)	ND (0.00039)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0017)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00029)	ND (0.00028)	ND (0.00027)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00032)	ND (0.00034)	ND (0.00032)	ND (0.00032)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00022)	ND (0.00021)	ND (0.00021)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00031)	ND (0.00033)	ND (0.00031)	ND (0.00030)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00024)	ND (0.00022)	ND (0.00022)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)	ND (0.00021)	ND (0.00020)	ND (0.00019)
1,4-Dioxane	0.1	250	1	0.1	ND (0.068)	ND (0.072)	ND (0.068)	ND (0.067)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0050)	ND (0.0053)	ND (0.0051)	ND (0.0050)
2-Hexanone	NC	NC	NC	NC	ND (0.0029)	ND (0.0031)	ND (0.0029)	ND (0.0028)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0031)	ND (0.0032)	ND (0.0031)	ND (0.0030)
Acetone	0.05	1,000	22	0.05	ND (0.0077)	ND (0.0082)	ND (0.0078)	ND (0.0076)
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00016)	ND (0.00016)	ND (0.00015)
Bromochloromethane	NC	NC	NC	NC	ND (0.00060)	ND (0.00064)	ND (0.00061)	ND (0.00060)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00028)	ND (0.00026)	ND (0.00026)
Bromoform	NC	NC	NC	NC	ND (0.00088)	ND (0.00093)	ND (0.00088)	ND (0.00087)
Bromomethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00049)	ND (0.00046)	ND (0.00045)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00023)	ND (0.00024)	ND (0.00023)	ND (0.00022)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00040)	ND (0.00043)	ND (0.00041)	ND (0.00040)
Chlorobenzene	1	1,000	40	1	ND (0.00037)	ND (0.00040)	ND (0.00038)	ND (0.00037)
Chloroethane	NC	NC	NC	1.9	ND (0.00047)	ND (0.00050)	ND (0.00048)	ND (0.00047)
Chloroform	0.37	700	12	0.37	ND (0.00056)	ND (0.00059)	ND (0.00057)	ND (0.00055)
Chloromethane	NC	NC	NC	NC	ND (0.00073)	ND (0.00077)	ND (0.00073)	ND (0.00072)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00037)	ND (0.00040)	ND (0.00038)	ND (0.00037)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00018)	ND (0.00017)
Cyclohexane	NC	NC	NC	NC	ND (0.00044)	ND (0.00047)	ND (0.00044)	ND (0.00043)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00021)	ND (0.00020)	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00040)	ND (0.00038)	ND (0.00037)
Ethylbenzene	1	780	NC	1	ND (0.00017)	ND (0.00018)	ND (0.00017)	ND (0.00017)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00083)	ND (0.00088)	ND (0.00084)	ND (0.00082)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00016)	ND (0.00017)	ND (0.00016)	ND (0.00016)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00037)	ND (0.00039)	ND (0.00037)	ND (0.00036)
Methyl acetate	NC	NC	NC	NC	ND (0.00026)	ND (0.00027)	ND (0.00026)	ND (0.00025)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.00030)	ND (0.00029)	ND (0.00028)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00027)	ND (0.00028)	ND (0.00027)	ND (0.00026)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00021)	ND (0.00022)	ND (0.00021)	ND (0.00021)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00023)	ND (0.00022)	ND (0.00021)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.00023)	ND (0.00022)	ND (0.00021)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00022)	ND (0.00024)	ND (0.00022)	ND (0.00022)
Toluene	0.7	1,000	36	0.7	ND (0.00044)	0.0011	ND (0.00044)	0.0012
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00049)	ND (0.00052)	ND (0.00050)	ND (0.00049)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00039)	ND (0.00041)	ND (0.00039)	ND (0.00039)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00029)	ND (0.00030)	ND (0.00029)	ND (0.00028)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00059)	ND (0.00056)	ND (0.00055)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00054)	ND (0.00057)	ND (0.00054)	ND (0.00053)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00021)	ND (0.00023)	ND (0.00022)	ND (0.00021)
Total VOCs	NC	NC	NC	NC	ND	0.001	ND	0.001

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth	RCH-4-ENV-32/6		RCH-4-ENV-33W/3		RCH-4-ENV-33W/7		RCH-4-ENV-33W/7A	
Lab Sample ID	JB3229-9		JB3142-1		JB3142-2		JB3142-7	
Sampling Date	4/3/2012		4/2/2012		4/2/2012		4/2/2012	
Matrix	Soil		Soil		Soil		Soil	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00028)	ND (0.00027)	ND (0.00029)	ND (0.00028)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00021)	ND (0.00020)	ND (0.00022)	ND (0.00021)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00051)	ND (0.00049)	ND (0.00052)	ND (0.00050)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.00025)	ND (0.00026)	ND (0.00025)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00072)	ND (0.00069)	ND (0.00074)	ND (0.00071)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00051)	ND (0.00049)	ND (0.00053)	ND (0.00050)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00040)	ND (0.00038)	ND (0.00041)	ND (0.00039)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0017)	ND (0.0018)	ND (0.0017)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00027)	ND (0.00029)	ND (0.00027)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00032)	ND (0.00031)	ND (0.00033)	ND (0.00032)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00020)	ND (0.00022)	ND (0.00021)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00031)	ND (0.00030)	ND (0.00032)	ND (0.00031)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00022)	ND (0.00023)	ND (0.00022)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)	ND (0.00019)	ND (0.00020)	ND (0.00020)
1,4-Dioxane	0.1	250	1	0.1	ND (0.068)	ND (0.065)	ND (0.070)	ND (0.067)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0051)	ND (0.0049)	ND (0.0052)	ND (0.0050)
2-Hexanone	NC	NC	NC	NC	ND (0.0029)	ND (0.0028)	ND (0.0030)	ND (0.0029)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0031)	ND (0.0030)	ND (0.0032)	ND (0.0030)
Acetone	0.05	1,000	2.2	0.05	ND (0.0078)	ND (0.0074)	ND (0.0080)	ND (0.0076)
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00015)	ND (0.00016)	ND (0.00015)
Bromochloromethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00058)	ND (0.00063)	ND (0.00060)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00025)	ND (0.00027)	ND (0.00026)
Bromoform	NC	NC	NC	NC	ND (0.00088)	ND (0.00085)	ND (0.00091)	ND (0.00087)
Bromomethane	NC	NC	NC	NC	ND (0.00046)	ND (0.00044)	ND (0.00048)	ND (0.00045)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00023)	ND (0.00022)	ND (0.00024)	ND (0.00023)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00041)	ND (0.00039)	ND (0.00042)	ND (0.00040)
Chlorobenzene	1	1,000	40	1	ND (0.00038)	ND (0.00036)	ND (0.00039)	ND (0.00037)
Chloroethane	NC	NC	NC	1.9	ND (0.00048)	ND (0.00046)	ND (0.00049)	ND (0.00047)
Chloroform	0.37	700	12	0.37	ND (0.00057)	ND (0.00054)	ND (0.00058)	ND (0.00056)
Chloromethane	NC	NC	NC	NC	ND (0.00073)	ND (0.00070)	ND (0.00075)	ND (0.00072)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00038)	ND (0.00036)	ND (0.00039)	ND (0.00037)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00017)	ND (0.00018)	ND (0.00018)
Cyclohexane	NC	NC	NC	NC	ND (0.00044)	ND (0.00043)	ND (0.00046)	ND (0.00044)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00019)	ND (0.00020)	ND (0.00019)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00038)	ND (0.00036)	ND (0.00039)	ND (0.00037)
Ethylbenzene	1	780	NC	1	ND (0.00017)	ND (0.00017)	ND (0.00018)	ND (0.00017)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00084)	ND (0.00081)	ND (0.00086)	ND (0.00083)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00016)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00037)	ND (0.00035)	ND (0.00038)	ND (0.00036)
Methyl acetate	NC	NC	NC	NC	ND (0.00026)	ND (0.00025)	ND (0.00027)	ND (0.00026)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00029)	ND (0.00028)	ND (0.00030)	ND (0.00028)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00027)	ND (0.00026)	ND (0.00028)	ND (0.00026)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00021)	ND (0.00020)	ND (0.00022)	ND (0.00021)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00022)	ND (0.00021)	ND (0.00022)	ND (0.00021)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.00021)	ND (0.00022)	ND (0.00021)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00022)	ND (0.00021)	ND (0.00023)	ND (0.00022)
Toluene	0.7	1,000	36	0.7	ND (0.00044)	0.0023	0.00063	J 0.00096 J
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00050)	ND (0.00048)	ND (0.00051)	ND (0.00049)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00039)	ND (0.00038)	ND (0.00041)	ND (0.00039)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00029)	ND (0.00028)	ND (0.00030)	ND (0.00028)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00054)	ND (0.00058)	ND (0.00056)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00054)	ND (0.00052)	ND (0.00056)	ND (0.00053)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00022)	ND (0.00021)	ND (0.00022)	ND (0.00021)
Total VOCs	NC	NC	NC	NC	ND	0.002	0.001	0.001

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-34/2	RCH-4-ENV-34/5
Lab Sample ID					JB3142-10	JB3142-11
Sampling Date					4/2/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00030)	ND (0.00030)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00023)	ND (0.00022)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00054)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00027)	ND (0.00027)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00077)	ND (0.00076)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00055)	ND (0.00054)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00043)	ND (0.00042)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0019)	ND (0.0019)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00030)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00035)	ND (0.00034)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00023)	ND (0.00023)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00034)	ND (0.00033)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00024)	ND (0.00024)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00021)
1,4-Dioxane	0.1	250	1	0.1	ND (0.073)	ND (0.072)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0055)	ND (0.0054)
2-Hexanone	NC	NC	NC	NC	ND (0.0031)	ND (0.0031)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0033)	ND (0.0033)
Acetone	0.05	1,000	2.2	0.05	0.0388	0.0515
Benzene	0.06	89	70	0.06	ND (0.019)	ND (0.019)
Bromochloromethane	NC	NC	NC	NC	ND (0.00065)	ND (0.00064)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00028)
Bromoform	NC	NC	NC	NC	ND (0.00095)	ND (0.00094)
Bromomethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00049)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00025)	ND (0.00024)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00044)	ND (0.00043)
Chlorobenzene	1	1,000	40	1	ND (0.00041)	ND (0.00040)
Chloroethane	NC	NC	NC	1.9	ND (0.00051)	ND (0.00051)
Chloroform	0.37	700	12	0.37	ND (0.00061)	ND (0.00060)
Chloromethane	NC	NC	NC	NC	ND (0.00079)	ND (0.00077)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00041)	ND (0.00040)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)
Cyclohexane	NC	NC	NC	NC	ND (0.00048)	ND (0.00047)
Dibromochloromethane	NC	NC	10	NC	ND (0.00021)	ND (0.00021)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00040)	ND (0.00040)
Ethylbenzene	1	780	NC	1	ND (0.00019)	ND (0.00018)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00090)	ND (0.00089)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	ND (0.00017)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00040)	ND (0.00039)
Methyl acetate	NC	NC	NC	NC	0.0101	ND (0.0028)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00031)	ND (0.00030)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00029)	ND (0.00029)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00023)	ND (0.00022)
n-Butylbenzene	12	1,000	NC	12	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00023)	ND (0.00023)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA
Styrene	NC	NC	300	NC	ND (0.00023)	ND (0.00023)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00024)	ND (0.00024)
Toluene	0.7	1,000	36	0.7	ND (0.00048)	0.0027
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00053)	ND (0.00053)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00042)	ND (0.00042)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00031)	ND (0.00031)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00060)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00058)	ND (0.00057)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00023)	ND (0.00023)
Total VOCs	NC	NC	NC	NC	0.049	0.054

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00031) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4-ENV-19-WC	RCH-4-ENV-19-WC/2	RCH-4-ENV-19-WC/4	RCH-4-ENV-19-WC/6	RCH-4-ENV-19-WC/8
Sample ID/Depth					04/11/12	04/11/12	04/11/12	04/11/12	04/11/12
Lab Sample ID					JB3917-7	JB3917-3	JB3917-4	JB3917-5	JB3917-6
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix									
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
GENERAL CHEMISTRY									
Solids, Percent	NC	NC	NC	NC	85.1	88.9	84.6	82	53
Total Organic Halides	NC	NC	NC	NC	<23	28.3	<23	<24	<37
Resistor Potential Vs H2 (mv)	NC	NC	NC	NC	2.17	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	7.57	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	1070	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-4-ENV-20W-WC	RCH-4-ENV-20W-WC/2	RCH-4-ENV-20W-WC/4	RCH-4-ENV-20W-WC/6	RCH-4-ENV-20W-WC/8
Lab Sample ID		04/10/12	04/10/12	04/10/12	04/10/12	04/10/12
Sampling Date		JB3809-15	JB3809-11	JB3809-12	JB3809-13	JB3809-14
Matrix		Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Solids, Percent	NC	NC	NC	NC	89.4	89.8
Total Organic Halides	NC	NC	NC	NC	<23	<22
Redox Potential 1/2 H2 (mV)	NC	NC	NC	NC	NA	NA
pH (pp)	NC	NC	NC	NC	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-4-ENV-21.1-WC	RCH-4-ENV-21.1-WC/2	RCH-4-ENV-21.1-WC/4	RCH-4-ENV-21.1-WC/8	RCH-4-ENV-22-WC			
Lab Sample ID		04/16/12	04/16/12	04/16/12	04/16/12	04/06/12			
Sampling Date		JB4278-6/6R	JB4278-1/1R	JB4278-2/2R	JB4278-3/3R	JB3652-7			
Matrix		Soil	Soil	Soil	Soil	Soil			
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
	Solids, Percent	NC	NC	NC	NC	84.4	87.2	78.2	81.7
Total Organic Halides	NC	NC	NC	NC	<24	<23	<25	<24	<24
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:

- NC - No Criterion
- SCO - Soil Cleanup Objective
- NA - Not Analyzed

There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-22-WC/4	RCH-4-ENV-22-WC/8	RCH-4-ENV-23-WC	RCH-4-ENV-23-WC/4	RCH-4-ENV-23-WC/8
Lab Sample ID					04/06/12	04/06/12	04/06/12	04/06/12	04/06/12
Sampling Date					JB3652-4	JB3652-6	JB3652-14	JB3652-11	JB3652-13
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Solids, Percent					NC	NC	NC	NC	76.9
Total Organic Halides					NC	NC	NC	NC	<26
Resistor Potential V/s H2 (mv)					NC	NC	NC	NC	NA
pH (soil)					NC	NC	NC	NC	NA
Total Sulfur					NC	NC	NC	NC	NA
Solids, Percent					NC	NC	NC	NC	84.1
Total Organic Halides					NC	NC	NC	NC	<23
Resistor Potential V/s H2 (mv)					NC	NC	NC	NC	NA
pH (soil)					NC	NC	NC	NC	NA
Total Sulfur					NC	NC	NC	NC	NA
Solids, Percent					NC	NC	NC	NC	84.6
Total Organic Halides					NC	NC	NC	NC	<23
Resistor Potential V/s H2 (mv)					NC	NC	NC	NC	NA
pH (soil)					NC	NC	NC	NC	NA
Total Sulfur					NC	NC	NC	NC	NA
Solids, Percent					NC	NC	NC	NC	84.5
Total Organic Halides					NC	NC	NC	NC	<23
Resistor Potential V/s H2 (mv)					NC	NC	NC	NC	NA
pH (soil)					NC	NC	NC	NC	NA
Total Sulfur					NC	NC	NC	NC	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4-ENV-24-WC	RCH-4-ENV-24-WC/2	RCH-4-ENV-24-WC/4	RCH-4-ENV-24-WC/6	RCH-4-ENV-24-WC/8
					04/10/12	04/10/12	04/10/12	04/10/12	04/10/12
					JB3809-7	JB3809-3	JB3809-4	JB3809-5	JB3809-6
					Soil	Soil	Soil	Soil	Soil
					Matrix	Matrix	Matrix	Matrix	Matrix
					Result	Result	Result	Result	Result
					Matrix	Matrix	Matrix	Matrix	Matrix
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Solids, Percent	NC	NC	NC	NC	89.2	89.4	77.3	75.6	84
Total Organic Halides	NC	NC	NC	NC	<23	<22	<26	<27	<23
Resistor Potential V _s H ₂ (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

		Sample ID/Depth	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-25W-WC	RCH-4-ENV-25W-WC/2	RCH-4-ENV-25W-WC/4	RCH-4-ENV-25W-WC/6		
		Lab Sample ID	JB3744-8	04/09/12	04/09/12	04/09/12	04/09/12		
		Sampling Date	4/9/2012	JB3744-7	JB3744-3	JB3744-4	JB3744-5		
		Matrix	Soil	Soil	Soil	Soil	Soil		
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Solids, Percent	NC	NC	NC	NC	277	78.4	72.7	81.3	77.8
Total Organic Halides	NC	NC	NC	NC	7.56	<26	<27	<25	<26
Bioassay Potential 1/8 H2 (mvi)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (so)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

	Sample ID/Depth	RCH-4-ENV-25W-WC/8	RCH-4-ENV-26-WC	RCH-4-ENV-26-WC/2	RCH-4-ENV-26-WC/4	RCH-4-ENV-26-WC/6
	Lab Sample ID	04/09/12	04/09/12	04/09/12	04/09/12	04/09/12
	Sampling Date	JB3744-6	JB3744-15	JB3744-11	JB3744-12	JB3744-13
	Matrix	Soil	Soil	Soil	Soil	Soil
		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
GENERAL CHEMISTRY						
Solids, Percent		NC	NC	NC	NC	81.3
Total Organic Halides		NC	NC	NC	NC	85.2
Redox Potential Vs H2 (mv)		NC	NC	NC	NC	<24
pH (so)		NC	NC	NC	NC	<23
Total Sulfur		NC	NC	NC	NC	84
						68.2
						<24
						NA
						NA
						NA
						NA
						NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID/Depth	RCH-4-ENV-26-WC/8	RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	RCH-4-ENV-27-WC/2	RCH-4-ENV-27-WC/4
					Lab Sample ID	04/09/12	JB3514-16	04/05/12	04/05/12	04/05/12
					Sampling Date	JB3744-14	4/5/2012	JB3514-16	JB3514-11	JB3514-12
					Matrix	Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result	
Solids, Percent	NC	NC	NC	NC	83	314	77	74.6	83.4	
Total Organic Halides	NC	NC	NC	NC	<24	7.6	<26	<24	<24	
Potential Vs H2 (mV)	NC	NC	NC	NC	NA	NA	317	NA	NA	
pH (so)	NC	NC	NC	NC	NA	NA	6.78	NA	NA	
Total Sulfur	NC	NC	NC	NC	NA	NA	123	NA	NA	

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-27-WC/6	RCH-4-ENV-27-WC/8	RCH-4-ENV-28-WC	RCH-4-ENV-28-WC/2	RCH-4-ENV-28-WC/4
Lab Sample ID					04/05/12	04/05/12	04/04/12	04/04/12	04/04/12
Sampling Date					JB3514-13	JB3514-14	JB3410-14	JB3410-10	JB3410-11
Matrix					Soil	Soil	Soil	Soil	Soil
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
GENERAL CHEMISTRY									
Solids, Percent	NC	NC	NC	NC	82.7	81.8	85.8	84	81.2
Total Organic Halides	NC	NC	NC	NC	<24	31.5	<23	<24	<25
Resistor Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-4-ENV-28-WC/6	RCH-4-ENV-28-WC/8	RCH-4-ENV-29W-WC	RCH-4-ENV-29W-WC/2	RCH-4-ENV-29W-WC/4			
Lab Sample ID		04/04/12	04/04/12	04/04/12	04/04/12	04/04/12			
Sampling Date		JB3410-12	JB3410-T3	JB3410-7	JB3410-3	JB3410-4			
Matrix		Soil	Soil	Soil	Soil	Soil			
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Solids, Percent	NC	NC	NC	NC	84	81.8	83.7	85.5	82.1
Total Organic Halides	NC	NC	NC	NC	<24	<24	<24	<23	<24
Redox Potential vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (so)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4-ENV-29W-WC/6	RCH-4-ENV-29W-WC/8	RCH-4-ENV-29W+30 COM1	RCH-4-ENV-30-WC	RCH-4-ENV-30-WC/2
Sample ID/Depth					04/04/12	04/04/12	JB3514-8	04/05/12	04/05/12
Lab Sample ID					JB3410-5	JB3410-6	JB3514-7	JB3514-7	JB3514-3
Sampling Date					Soil	Soil	Soil	Soil	Soil
Matrix									
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
	Solids, Percent	NC	NC	NC	NC	78.5	83.9	264	85.7
Total Organic Halides	NC	NC	NC	NC	<25	<24	8.03	<23	<22
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-30-WC/4	RCH-4-ENV-30-WC/6	RCH-4-ENV-30-WC/8	RCH-4-ENV-31-WC	RCH-4-ENV-31-WC/2
Lab Sample ID					04/05/12	04/05/12	04/05/12	04/03/12	04/03/12
Sampling Date					JB3514-4	JB3514-5	JB3514-6	JB3229-7	JB3229-3
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Solids, Percent	NC	NC	NC	NC	84.6	84.1	84.5	87.6	85
Total Organic Halides	NC	NC	NC	NC	<24	<23	<23	<23	<23
Resistor Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-4-ENV-31-WC/4	RCH-4-ENV-31-WC/6	RCH-4-ENV-31-WC/8	RCH-4-ENV-31+32 COMP	RCH-4-ENV-32-WC
					04/03/12	04/03/12	04/03/12	JB3229-15	04/03/12
					JB3229-4	JB3229-5	JB3229-6	4/3/2012	JB3229-14
					Soil	Soil	Soil	Soil	Soil
					Matrix	Matrix	Matrix	Matrix	Matrix
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
GENERAL CHEMISTRY									
Solids, Percent	NC	NC	NC	NC	85.6	83.3	88.2	189	89.8
Total Organic Halides	NC	NC	NC	NC	<23	<24	<22	9.12	<22
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (Std)	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-32-WC/2	RCH-4-ENV-32-WC/4	RCH-4-ENV-32-WC/6	RCH-4-ENV-32-WC/8	RCH-4-ENV-33W-WC
Lab Sample ID					04/03/12	04/03/12	04/03/12	04/03/12	04/02/12
Sampling Date					JB3229-10	JB3229-11	JB3229-12	JB3229-13	JB3142-8
Matrix					Soil	Soil	Soil	Soil	Soil
					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
	Solids, Percent	NC	NC	NC	NC	91.4	86.8	86.5	85.8
	Total Organic Halides	NC	NC	NC	NC	<23	<23	<23	<22
	Resistor Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA
	pH (top)	NC	NC	NC	NC	NA	NA	NA	NA
	Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth		RCH-4-ENV-33W-WC/2	RCH-4-ENV-33W-WC/4	RCH-4-ENV-33W-WC/6	RCH-4-ENV-33W-WC/8	RCH-4-ENV-33W+34 COMP
Lab Sample ID		04/02/12	04/02/12	04/02/12	04/02/12	JB3142-9
Sampling Date		JB3142-3	JB3142-4	JB3142-5	JB3142-6	4/2/2012
Matrix		Soil	Soil	Soil	Soil	Soil
		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
GENERAL CHEMISTRY						Result
Solids, Percent	NC	NC	NC	NC	NC	91
Total Organic Halides	NC	NC	NC	NC	NC	93.1
Reson Potential Vs H2 (mv)	NC	NC	NC	NC	NC	<22
pH (so)	NC	NC	NC	NC	NC	<21
Total Sulfur	NC	NC	NC	NC	NC	<23
						86.5
						86.9
						290
						8.5
						NA
						NA
						NA
						NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-4-ENV-34-WC	RCH-4-ENV-34-WC/2	RCH-4-ENV-34-WC/4	RCH-4-ENV-34-WC/6	RCH-4-ENV-34-WC/8	
Lab Sample ID					04/02/12	04/02/12	04/02/12	04/02/12	04/02/12	
Sampling Date					JB3142-16	JB3142-12	JB3142-13	JB3142-14	JB3142-15	
Matrix					Soil	Soil	Soil	Soil	Soil	
					Result	Result	Result	Result	Result	
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO						
	Solids, Percent	NC	NC	NC	NC	86.4	88	87.7	77.1	84.9
	Total Organic Halides	NC	NC	NC	NC	<23	<23	<22	<26	<23
	Resistor Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	NA	NA	NA
	pH (soil)	NC	NC	NC	NC	NA	NA	NA	NA	NA
	Total Sulfur	NC	NC	NC	NC	NA	NA	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 There are no Max Threshold Criteria for the General Chemistry parameters listed above.

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

TRC Sample No.:	RCH-4-ENV-19+20W+21-WC-COMP	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-27+28 COMP
Date Sampled:	04/10/12	04/10/12	04/09/12	04/05/12
Lab Sample No.:	JB4278-7A	JB3809-8A	JB3744-8A	JB3514-16A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
Arsenic	5.0	<0.50	<0.50	<0.50	<0.50
Barium	100.0	<1.0	<1.0	<1.0	<1.0
Cadmium	1.0	0.0087	<0.0050	<0.0050	<0.0050
Chromium	5.0	<0.010	<0.010	<0.010	<0.010
Copper	NC	0.14	0.028	0.036	<0.025
Lead	5.0	<0.50	<0.50	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	NC	0.15	0.042	<0.040	<0.040
Selenium	1.0	<0.50	<0.50	<0.50	<0.50
Silver	5.0	<0.010	<0.010	<0.010	<0.010
Zinc	NC	2.1	<0.40	<0.40	0.054

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 <0.5 - Less than the reporting limit

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

TRC Sample No.:	RCH-4-ENV-28-WC	RCH-4-ENV-29W+30 COMP
Date Sampled:	04/04/12	04/05/12
Lab Sample No.:	JB3410-14	JB3514-8A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result
Arsenic	5.0	<0.50	<0.50
Barium	100.0	<1.0	<1.0
Cadmium	1.0	<0.0050	<0.0050
Chromium	5.0	<0.010	<0.010
Copper	NC	<0.025	<0.025
Lead	5.0	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020
Nickel	NC	<0.040	<0.040
Selenium	1.0	<0.50	<0.50
Silver	5.0	<0.010	<0.010
Zinc	NC	0.078	0.14

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 <0.5 - Less than the reporting limit

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

TRC Sample No.:	RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP
Date Sampled:	04/03/12	04/02/12
Lab Sample No.:	JB3229-15A	JB3142-9A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result
Arsenic	5.0	<0.50	<0.50
Barium	100.0	<1.0	<1.0
Cadmium	1.0	<0.0050	<0.0050
Chromium	5.0	<0.010	<0.010
Copper	NC	0.028	0.033
Lead	5.0	<0.50	<0.50
Mercury	0.2	<0.00020	<0.00020
Nickel	NC	0.042	0.1
Selenium	1.0	<0.50	<0.50
Silver	5.0	<0.010	<0.010
Zinc	NC	1	0.8

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 <0.5 - Less than the reporting limit

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-19-WC	RCH-4-ENV-19+20W+21-WC-COMP	RCH-4-ENV-22+23+24 COMP
Lab Sample ID					JB3917-7	JB4278-7/T	JB3809-8
Sampling Date					4/11/2012	4/16/2012	4/10/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aluminum	NC	NC	10000	NC	5810	6670	6120
Antimony	NC	NC	12	NC	<2.2	2.9	<2.4
Arsenic	13	16	13	16	20.1	26.6	12.9
Barium	350	10,000	433	820	157	207	87.3
Beryllium	7.2	2,700	10	47	0.36	0.67	0.44
Cadmium	2.5	60	4	7.5	0.94	0.97	<0.60
Calcium	NC	NC	10000	NC	30500	17700	24100
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	32.2	29.4	14.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	<0.46(<0.46)	<0.47
Chromium (Trivalent)	30	6800	41	NC	32.2	29	13.8
Cobalt	NC	NC	20	NC	24	6.1	<6.0
Copper	50	10,000	50	1,720	121	108	36.6
Cyanide (Total)	27	10,000	NC	40	<0.26	<0.27	<0.27
Iron	NC	NC	NC	NC	18400	19100	15200
Lead	63	3,900	63	450	222	989	115
Magnesium	NC	NC	NC	NC	14100	7170	13500
Manganese	1,600	10,000	1600	2,000	823	262	128
Mercury (Total)	0.18	5.7	0.18	0.73	0.64	0.31	0.27
Nickel	30	10,000	30	130	55.5	50.6	22.8
Potassium	NC	NC	NC	NC	<1100	<1100	<1200
Selenium	3.9	6,800	3.9	4	<2.2	<2.2	<2.4
Silver	2	6,800	2	8.3	<0.56	1.3	1.1
Sodium	NC	NC	NC	NC	<1100	<1100	<1200
Thallium	NC	NC	5	NC	<1.1	<1.1	<1.2
Vanadium	NC	NC	39	NC	31.8	30.6	28.1
Zinc	109	10,000	109	2,480	445	389	78.8

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

c - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-4 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-25W+26 COMP	RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	RCH-4-ENV-29W+30 COMP
Lab Sample ID					JB3744-8	JB3514-16	JB3514-15	JB3514-8
Sampling Date					4/9/2012	4/5/2012	4/5/2012	4/5/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6680	5800	6050	10900
Antimony	NC	NC	12	NC	<2.4	<2.3	<2.5	<2.3
Arsenic	13	16	13	16	8.7	6.6	7.1	9
Barium	350	10,000	433	820	58.3	37.5	37.6	84.8
Beryllium	7.2	2,700	10	47	0.49	0.42	0.47	0.75
Cadmium	2.5	60	4	7.5	<0.59	<0.59	<0.63	<0.59
Calcium	NC	NC	10000	NC	5080	1940	660	2130
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	13.7	11.6	11.9	22.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.49(<0.49)	<0.48	<0.52	<0.47
Chromium (Trivalent)	30	6800	41	NC	13.2	11.6	11.9	22.3
Cobalt	NC	NC	20	NC	<5.9	<5.9	<6.3	8
Copper	50	10,000	50	1,720	38.3	19.2	18.8	18.7
Cyanide (Total)	27	10,000	NC	40	<0.27	<0.27	<0.31	<0.28
Iron	NC	NC	NC	NC	14000	11900	13400	21100
Lead	63	3,900	63	450	42.7	15.9	16.2	43.8
Magnesium	NC	NC	NC	NC	1500	1020	919	4000
Manganese	1,600	10,000	1600	2,000	108	95.9	69.8	331
Mercury (Total)	0.18	5.7	0.18	0.73	0.22	0.078	0.12	<0.038
Nickel	30	10,000	30	130	9.6	7.2	7.3	19.4
Potassium	NC	NC	NC	NC	<1200	<1200	<1300	2400
Selenium	3.9	6,800	3.9	4	<2.4	<2.3	<2.5	<2.3
Silver	2	6,800	2	8.3	0.64	<0.59	<0.63	<0.59
Sodium	NC	NC	NC	NC	<1200	<1200	<1300	<1200
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.3	<1.2
Vanadium	NC	NC	39	NC	19.5	17.5	19.8	29.7
Zinc	109	10,000	109	2,480	68.8	41.5	39.2	65.6

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

c - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP
Lab Sample ID					JB3229-15/15R	JB3142-9/JB3142-9R
Sampling Date					4/3/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aluminum	NC	NC	10000	NC	11900	7940
Antimony	NC	NC	12	NC	<2.2	<2.3
Arsenic	13	16	13	16	3.6	15.8
Barium	350	10,000	433	820	130	83.4
Beryllium	7.2	2,700	10	47	1	0.72
Cadmium	2.5	60	4	7.5	<0.54	<0.57
Calcium	NC	NC	10000	NC	15800	9130
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	21.9	15.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.45(<0.45)	<0.45 (<0.45)
Chromium (Trivalent)	30	6800	41	NC	21.9	15.7
Cobalt	NC	NC	20	NC	10.4	9.2
Copper	50	10,000	50	1,720	49.7	44.6
Cyanide (Total)	27	10,000	NC	40	0.49	<0.25
Iron	NC	NC	NC	NC	23800	16100
Lead	63	3,900	63	450	30.4	76.4
Magnesium	NC	NC	NC	NC	6800	5570
Manganese	1,600	10,000	1600	2,000	499	294
Mercury (Total)	0.18	5.7	0.18	0.73	0.11	0.12
Nickel	30	10,000	30	130	35.1	23.6
Potassium	NC	NC	NC	NC	3190	1350
Selenium	3.9	6,800	3.9	4	<2.2	<2.3
Silver	2	6,800	2	8.3	<0.54	0.9
Sodium	NC	NC	NC	NC	<1100	<1100
Thallium	NC	NC	5	NC	<1.1	<1.1
Vanadium	NC	NC	39	NC	28.8	30.3
Zinc	109	10,000	109	2,480	176	123

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

NA - Not analyzed

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

c - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-4-ENV-19-WC	RCH-4-ENV-19+20W+21-WC-COMP	RCH-4-ENV-22+23+24 COMP
Lab Sample ID					JB3917-7	JB4278-7	JB3809-8
Sampling Date					4/11/2012	4/16/2012	4/10/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0097)	ND (0.0099)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.023)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.019)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	0.0947	ND (0.018)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	0.065	0.098	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)
Total PCBs	0.1	25	1	3.2	0.16	0.098	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0089) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-25W+26 COMP	RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	RCH-4-ENV-29W+30 COMP
Sample ID/Depth					JB3744-8	JB3514-16	JB3514-15	JB3514-8
Lab Sample ID					4/9/2012	4/5/2012	4/5/2012	4/5/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0093)	ND (0.010)	ND (0.011)	ND (0.0099)
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.024)	ND (0.025)	ND (0.023)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.020)	ND (0.021)	ND (0.019)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.012)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.019)	ND (0.019)	ND (0.018)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.013)	ND (0.012)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0089) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP
					Sample ID/Depth	
					Lab Sample ID	JB3229-15
					Sampling Date	4/3/2012
					Matrix	Soil
					Units	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0085)	ND (0.0085)
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.020)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.015)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.0096)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.0097)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

TRC Sample No.:	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-29W+30 COMP	RCH-4-ENV-33W+34 COMP
Date Sampled:	04/10/12	04/09/12	04/05/12	04/02/12
Lab Sample No.:	JB3809-8A	JB3744-8A	JB3514-8A	JB3142-9A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
gamma-BHC (Lindane)	0.40	ND (0.000041)	ND (0.000041)	ND (0.000041)	ND (0.000041)
Chlordane	0.03	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Endrin	0.02	ND (0.000064)	ND (0.000064)	ND (0.000064)	ND (0.000064)
Heptachlor	0.01	ND (0.000084)	ND (0.000084)	ND (0.000084)	ND (0.000084)
Heptachlor epoxide	0.01	ND (0.000038)	ND (0.000038)	ND (0.000038)	ND (0.000038)
Methoxychlor	10	ND (0.000082)	ND (0.000082)	ND (0.000082)	ND (0.000082)
Toxaphene	0.5	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
2,4-D	10	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
2,4,5-TP (Silvex)	1	ND (0.00018)	ND (0.00018)	ND (0.00018)	ND (0.00018)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-4-ENV-19-WC	RCH-4-ENV-19+20W+21-WC-COMP	RCH-4-ENV-22+23+24 COMP	
Lab Sample ID					JB3917-7	JB4278-7	JB3809-8	
Sampling Date					4/11/2012	4/16/2012	4/10/2012	
Matrix					Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result			
					Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.0161	0.011	a	ND (0.00039)
4,4'-DDE	0.0033	120	0.0033	17	0.0125	0.005		0.0073
4,4'-DDT	0.0033	94	0.0033	136	0.0276	0.011	a	0.0095
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	0.003		ND (0.00038)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00056)		ND (0.00057)
alpha-Chlordane	0.094	47	1.3	2.9	0.009			0.006
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00053)		ND (0.00053)
Chlordane	NC	NC	NC	NC	NA	NA		NA
gamma-Chlordane	NC	NC	NC	14	0.008	0.005	a	ND (0.00039)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00044)		ND (0.00044)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00058)		ND (0.00058)
Endosulfan-I	2.4	920	NC	102	ND (0.00033)	ND (0.00036)		ND (0.00037)
Endosulfan-II	2.4	920	NC	102	ND (0.00045)	ND (0.00049)		ND (0.00050)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00068)		ND (0.00069)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00038)		ND (0.00039)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00071)		ND (0.00072)
Endrin ketone	NC	NC	NC	NC	ND (0.00044)	ND (0.00049)		ND (0.00050)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00034)		ND (0.00035)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00046)		ND (0.00047)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00037)		0.008
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00053)		ND (0.00054)
Toxaphene	NC	NC	NC	NC	ND (0.00086)	ND (0.00094)		ND (0.00096)
2,4-D	NC	NC	NC	0.5	0.0996	ND (0.00048)		ND (0.00048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00058)		ND (0.00058)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)		ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)		ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00068)		ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0039)		ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0031)		ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.52)		ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)		ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)		ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)		ND (0.011)

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 ND (0.00039) - Not Detected (Method Detection Limit)
 b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for confirmation only.

RCH-4 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					RCH-4-ENV-25W+26 COMP	RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	RCH-4-ENV-29W+30 COMP	
Sample ID/Depth					JB3744-8	JB3514-16	JB3514-15	JB3514-8	
Lab Sample ID					4/9/2012	4/5/2012	4/5/2012	4/5/2012	
Sampling Date					Soil	Soil	Soil	Soil	
Matrix					mg/kg	mg/kg	mg/kg	mg/kg	
Units					Result	Result	Result	Result	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
4,4'-DDD	0.0033	0.18	0.0033	14	0.003	b	0.003	0.006	ND (0.00039)
4,4'-DDE	0.0033	120	0.0033	17	0.0117		0.012	0.020	0.00083
4,4'-DDT	0.0033	94	0.0033	136	0.0059		0.008	0.007	0.0021
Aldrin	0.005	1.4	0.14	0.19	ND (0.00036)		ND (0.00040)	ND (0.00041)	ND (0.00038)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00054)		ND (0.00059)	ND (0.00061)	ND (0.00057)
alpha-Chlordane	0.094	47	1.3	2.9	0.009		0.017	0.042	ND (0.00050)
beta-BHC	0.036	14	0.6	0.09	ND (0.00050)		ND (0.00056)	ND (0.00057)	ND (0.00054)
Chlordane	NC	NC	NC	NC	NA		NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	0.005		0.012	0.030	ND (0.00039)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00042)		ND (0.00046)	ND (0.00048)	ND (0.00045)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00055)		ND (0.00061)	ND (0.00063)	ND (0.00059)
Endosulfan-I	2.4	920	NC	102	ND (0.00035)		ND (0.00038)	ND (0.00040)	ND (0.00037)
Endosulfan-II	2.4	920	NC	102	ND (0.00047)		ND (0.00052)	ND (0.00054)	ND (0.00050)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00065)		ND (0.00072)	ND (0.00074)	ND (0.00069)
Endrin	0.014	410	0.014	0.060	ND (0.00037)		ND (0.00041)	ND (0.00042)	ND (0.00039)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00068)		ND (0.00075)	ND (0.00077)	ND (0.00072)
Endrin ketone	NC	NC	NC	NC	ND (0.00047)		ND (0.00052)	ND (0.00053)	ND (0.00050)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00033)		ND (0.00036)	ND (0.00037)	ND (0.00035)
Heptachlor	0.042	29	0.14	0.38	ND (0.00044)		ND (0.00049)	ND (0.00050)	ND (0.00047)
Heptachlor epoxide	NC	NC	NC	0.02	0.004		0.004	0.007	ND (0.00038)
Methoxychlor	NC	NC	1.2	900	ND (0.00051)		ND (0.00056)	ND (0.00058)	ND (0.00054)
Toxaphene	NC	NC	NC	NC	ND (0.00090)		ND (0.010)	ND (0.010)	ND (0.0096)
2,4-D	NC	NC	NC	0.5	ND (0.00051)		ND (0.00050)	ND (0.00054)	ND (0.00049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00061)		ND (0.00060)	ND (0.00065)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)		ND (0.0015)	ND (0.0016)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)		ND (0.0012)	ND (0.0013)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00071)		ND (0.00070)	ND (0.00076)	ND (0.00068)
Dichloroprop	NC	NC	NC	NC	ND (0.0041)		ND (0.0041)	ND (0.0044)	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0033)		ND (0.0032)	ND (0.0035)	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.55)		ND (0.54)	ND (0.59)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.29)		ND (0.28)	ND (0.30)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)		ND (0.0012)	ND (0.0013)	0.0042
2,4-DB	NC	NC	NC	NC	ND (0.012)		ND (0.012)	ND (0.013)	ND (0.011)

Notes:
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Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective
ND (0.00039) - Not Detected (Method Detection Limit)
b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for conf

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP
Sample ID/Depth						
Lab Sample ID					JB3229-15	JB3142-9
Sampling Date					4/3/2012	4/2/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00034)	0.0016
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00039)	0.0019
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00048)	ND (0.00048)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00033)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00049)	ND (0.00049)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00043)	0.0043
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00046)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00033)	0.0038
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00038)	ND (0.00038)
Dieldrin	0.005	2.8	0.006	0.1	0.0017	ND (0.00051)
Endosulfan-I	2.4	920	NC	102	ND (0.00032)	ND (0.00032)
Endosulfan-II	2.4	920	NC	102	ND (0.00043)	ND (0.00043)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00059)	ND (0.00059)
Endrin	0.014	410	0.014	0.060	ND (0.00033)	ND (0.00034)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00062)	ND (0.00062)
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00043)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00030)	ND (0.00030)
Heptachlor	0.042	29	0.14	0.38	ND (0.00040)	ND (0.00040)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00032)	ND (0.00032)
Methoxychlor	NC	NC	1.2	900	ND (0.00046)	ND (0.00046)
Toxaphene	NC	NC	NC	NC	ND (0.0083)	ND (0.0083)
2,4-D	NC	NC	NC	0.5	ND (0.0046)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00055)	ND (0.00056)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00064)	ND (0.00066)
Dichloroprop	NC	NC	NC	NC	ND (0.0037)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0030)	ND (0.0030)
MCPPA	NC	NC	NC	NC	ND (0.50)	ND (0.51)
MCPPE	NC	NC	NC	NC	ND (0.26)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)

Notes:
 mg/kg - milligrams per kilogram
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 NA - Not Analyzed
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 ND (0.00039) - Not Detected (Method Detection Limit)
 b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for conf

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

	RCH-4-ENV-19+20W+21- WC-COMP	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-27+28 COMP
TRC Sample ID/Depth				
Date Sampled	04/10/12	04/10/12	04/09/12	04/05/12
Lab Sample No.	JB4278-7/7A/7R	JB3809-8/8A	JB3744-8/8A	JB3514-16/16A
Matrix	Soil	Soil	Soil	Soil
Depth Interval	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE

RCRA CHARACTERISTICS	Regulatory Level*	Result	Result	Result	Result
Cyanide Reactivity (mg/kg)	250	<12	<12	<12	<12
Sulfide Reactivity (mg/kg)	500	<120	<120	<120	<120
Corrosivity as pH (su)	<2 or >12.5	7.92 NC	7.59 NC	7.55 NC	7.45 NC
Ignitability - Flashpoint (Deg.°F)	>140	>200	>200	>200	>200
Paint Filter (ml/100g)	NC	<0.50	<0.50	<0.50	<0.50
Moisture, Percent (%)	NC	13.9	15.3	18.3	17.1
Total Organic Halides (mg/kg)	NC	<23	<24	<24	<24
Total Sulfur (mg/kg)	NC	965	332	377	159

Legend

* United States Environmental Protection Agency
 (USEPA) Maximum Concentration of Contaminants for
 <12 - Less than the reporting limit
 NC - No criterion
 NA - Not Analyzed
 b = No free liquids.

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

	RCH-4-ENV-29W+30 COMP	RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP
TRC Sample ID/Depth			
Date Sampled	04/05/12	04/03/12	04/02/12
Lab Sample No.	JB3514-8/8A	JB3229-15/15A	JB3142-9/9A
Matrix	Soil	Accutest	Accutest
Depth Interval	COMPOSITE	Soil	Soil

RCRA CHARACTERISTICS	Regulatory Level*	Result	Result	Result
Cyanide Reactivity (mg/kg)	250	<12	<11	<11
Sulfide Reactivity (mg/kg)	500	<120	<110	<110
Corrosivity as pH (su)	<2 or >12.5	8.15 NC	9.24 NC	8.66 NC
Ignitability - Flashpoint (Deg.°F)	>140	>200	>200	>200
Paint Filter (ml/100g)	NC	<0.50	<0.50	<0.50
Moisture, Percent (%)	NC	15.5	10.2	11.5
Total Organic Halides (mg/kg)	NC	<24	<22	<22
Total Sulfur (mg/kg)	NC	89.8	88.8	534

Legend

* United States Environmental Protection Agency
 (USEPA) Maximum Concentration of Contaminants for
 <12 - Less than the reporting limit
 NC - No criterion
 NA - Not Analyzed
 b = No free liquids.

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

TRC Sample No.:	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-29W+30 COMP	RCH-4-ENV-33W+34 COMP
Date Sampled:	04/10/12	04/09/12	04/05/12	04/02/12
Lab Sample No.:	JB3809-8A	JB3744-8A	JB3514-8A	JB3142-9A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
2-Methylphenol	200	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)	ND (0.0093)	ND (0.0093)	ND (0.0093)
Pentachlorophenol	100	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)	ND (0.0036)	ND (0.0036)	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)	ND (0.0034)	ND (0.0034)	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0051)
Hexachloroethane	3	ND (0.0055)	ND (0.0055)	ND (0.0055)	ND (0.0055)
Nitrobenzene	2	ND (0.0042)	ND (0.0042)	ND (0.0042)	ND (0.0042)
Pyridine	5	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-19-WC	RCH-4-ENV-19+20W+21-WC-COMP	RCH-4-ENV-22+23+24 COMP
Lab Sample ID					JB3917-7	JB4278-7	JB3809-8/8R
Sampling Date					4/11/2012	4/16/2012	4/10/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.034)	ND (0.036)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.038)	ND (0.041)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.031)	ND (0.033)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.053)	ND (0.056)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.055)	ND (0.059)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.040)	ND (0.043)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.033)	ND (0.035)
2-Methylnaphthalene	NC	NC	NC	36.4	0.05080	J 0.1070	ND (0.019)
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.038)	ND (0.037)	ND (0.040)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.035)	ND (0.037)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.043)	ND (0.042)	ND (0.044)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0083)	ND (0.0089)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.014)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.041)	ND (0.040)	ND (0.043)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.013)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.034)	ND (0.033)	ND (0.035)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.011)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)
4-Nitrophenol	NC	NC	7	0.3	ND (0.057)	ND (0.055)	ND (0.059)
Acenaphthene	20	1,000	20	98	0.03770	0.1860	ND (0.010)
Acenaphthylene	100	1,000	NC	107	0.04160	0.1000	0.0358
Acetophenone	NC	NC	NC	NC	0.01710	J 0.0058	ND (0.0061)
Anthracene	100	1,000	NC	1,000	0.09860	0.1980	0.0499
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0065)	ND (0.0069)
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0075)	ND (0.0080)
Benzo(a)anthracene	1	11	NC	1	0.21300	0.3410	0.1650
Benzo(a)pyrene	1	1	2.6	22	0.20900	0.3510	0.1640
Benzo(b)fluoranthene	1	11	NC	2	0.29700	0.4170	0.1740
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.15000	0.2730	0.1040
Benzo(k)fluoranthene	1	110	NC	2	0.13300	0.2150	0.1260
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.011)
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.030)	0.0398	J 0.031
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	0.04020	0.0369	J 0.016
Chrysene	1	110	NC	1	0.27200	0.3900	0.1910
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.04220	0.0721	0.0318
Dibenzofuran	7	1,000	NC	210	0.03210	J 0.1210	ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0075)	ND (0.0073)	ND (0.0078)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.017)
1,1-Biphenyl	NC	NC	60	NC	0.01370	J 0.0386	J 0.0041
Fluoranthene	100	1,000	NC	1,000	0.46900	0.7430	0.3340
Fluorene	30	1,000	30	386	0.03490	0.1560	ND (0.011)
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0091)	ND (0.0097)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.033)	ND (0.036)
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0091)	ND (0.0097)
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.17000	0.2240	0.1280
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0088)	ND (0.0094)
Naphthalene	12	1,000	NC	12	0.05200	0.1060	ND (0.0095)
Nitrobenzene	NC	140	40	0.17	ND (0.0097)	ND (0.0095)	ND (0.010)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0082)	ND (0.0080)	ND (0.0085)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.021)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.056)	ND (0.060)
Phenanthrene	100	1,000	NC	1,000	0.25400	0.7180	0.1540
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.034)	ND (0.037)
Pyrene	100	1,000	NC	1,000	0.42200	0.8370	0.3160
Total SVOCs	NC	NC	NC	NC	2.63	4.83	1.66

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 * - Recovery or RPD exceeds control limits
 J - Value is estimated

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-25W+26 COMP	RCH-4-ENV-25W-WC	RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	
Lab Sample ID					JB3744-8	JB3744-7T	JB3514-16	JB3514-15	
Sampling Date					4/9/2012	4/9/2012	4/5/2012	4/5/2012	
Matrix					Soil	Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	mg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.011)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.037)	ND (0.035)	ND (0.037)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.042)	ND (0.040)	ND (0.042)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.033)	ND (0.034)	ND (0.032)	ND (0.034)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.056)	ND (0.059)	ND (0.055)	ND (0.058)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.058)	ND (0.061)	ND (0.057)	ND (0.060)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.044)	ND (0.042)	ND (0.044)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.016)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.014)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.036)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.020)	
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.040)	ND (0.041)	ND (0.039)	ND (0.041)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.016)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.037)	ND (0.039)	ND (0.036)	ND (0.038)	
3&4-Methylphenol	NC	NC	NC	NC	ND (0.044)	ND (0.046)	ND (0.043)	ND (0.046)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0088)	ND (0.0092)	ND (0.0087)	ND (0.0091)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.042)	ND (0.044)	ND (0.042)	ND (0.044)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.012)	ND (0.013)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.035)	ND (0.036)	ND (0.034)	ND (0.036)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.059)	ND (0.061)	ND (0.058)	ND (0.061)	
Acenaphthene	20	1,000	20	98	ND (0.010)	0.0144	J ND (0.0099)	ND (0.010)	
Acenaphthylene	100	1,000	NC	107	0.0861	0.2150	0.0148	J 0.0153	J
Acetophenone	NC	NC	NC	NC	ND (0.0061)	ND (0.0064)	ND (0.0060)	ND (0.0063)	
Anthracene	100	1,000	NC	1,000	0.0437	0.1170	ND (0.012)	ND (0.013)	
Atrazine	NC	NC	NC	NC	ND (0.0068)	ND (0.0072)	ND (0.0067)	ND (0.0071)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0080)	ND (0.0084)	ND (0.0079)	ND (0.0083)	
Benzo(a)anthracene	1	11	NC	1	0.1940	0.4340	0.0444	0.0524	
Benzo(a)pyrene	1	1	2.6	22	0.2210	0.4810	0.0437	0.0551	
Benzo(b)fluoranthene	1	11	NC	2	0.2290	0.6140	0.0485	0.0622	
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.1520	0.3440	0.0340	0.0415	
Benzo(k)fluoranthene	1	110	NC	2	0.1600	0.2750	0.0295	J 0.0383	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.015)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	0.0651	J ND (0.032)	ND (0.030)	ND (0.032)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.021)	ND (0.020)	ND (0.021)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.016)	0.0423	J ND (0.016)	ND (0.017)	
Chrysene	1	110	NC	1	0.2440	0.5310	0.0538	0.0606	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	0.0349	J 0.1290	ND (0.012)	ND (0.012)	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.013)	ND (0.012)	0.0434	J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0077)	ND (0.0081)	ND (0.0076)	ND (0.0080)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.018)	ND (0.017)	ND (0.018)	
1,1'-Biphenyl	NC	NC	60	NC	ND (0.0040)	ND (0.0042)	ND (0.0040)	ND (0.0042)	
Fluoranthene	100	1,000	NC	1,000	0.3660	0.8540	0.0764	0.1030	
Fluorene	30	1,000	30	386	ND (0.011)	0.0279	J ND (0.011)	ND (0.012)	
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.012)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0095)	ND (0.010)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.037)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0095)	ND (0.010)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.1430	0.3230	0.0283	J 0.0360	
Isophorone	NC	NC	NC	4	ND (0.0093)	ND (0.0098)	ND (0.0092)	ND (0.0097)	
Naphthalene	12	1,000	NC	12	ND (0.0095)	ND (0.0099)	ND (0.0093)	ND (0.0098)	
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.011)	ND (0.0099)	ND (0.010)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0085)	ND (0.0089)	ND (0.0083)	ND (0.0088)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.022)	ND (0.020)	ND (0.021)	
Pentachlorophenol	1	55	0.8	1	ND (0.059)	ND (0.062)	ND (0.058)	ND (0.062)	
Phenanthrene	100	1,000	NC	1,000	0.1310	0.3950	0.0245	J 0.0355	J
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.038)	ND (0.036)	ND (0.038)	
Pyrene	100	1,000	NC	1,000	0.3270	0.8690	0.0719	0.0958	
Total SVOCs	NC	NC	NC	NC	2.07	4.80	0.40	0.54	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 * - Recovery or RPD exceeds control limits
 J - Value is estimated

RCH-4 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-4-ENV-29W+30 COMP	RCH-4-ENV-31+32 COMP	RCH-4-ENV-33W+34 COMP	
Lab Sample ID					JB3514-8	JB3229-15	JB3142-9	
Sampling Date					4/5/2012	4/3/2012	4/2/2012	
Matrix					Soil	Soil	Soil	
Units					mg/kg	mg/kg	mg/kg	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.0096)	ND (0.0098)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.032)	ND (0.033)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.036)	ND (0.037)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.029)	ND (0.030)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.053)	ND (0.050)	ND (0.052)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.052)	ND (0.054)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.038)	ND (0.039)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.014)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.012)	ND (0.012)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.0099)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.032)	ND (0.032)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.017)	ND (0.018)	
2-Methylphenol	0.33	1,000	NC	0.33	ND (0.038)	ND (0.036)	ND (0.036)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)	ND (0.014)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.033)	ND (0.034)	
3&4-Methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.040)	ND (0.041)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0084)	ND (0.0079)	ND (0.0081)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.012)	ND (0.013)	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.040)	ND (0.038)	ND (0.039)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.033)	ND (0.031)	ND (0.032)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.010)	ND (0.010)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0094)	ND (0.0096)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.053)	ND (0.054)	
Acenaphthene	20	1,000	20	98	ND (0.0096)	ND (0.0090)	ND (0.0093)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	0.0287	J ND (0.010)	
Acetophenone	NC	NC	NC	NC	ND (0.0058)	ND (0.0055)	ND (0.0056)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.0185	J ND (0.011)	
Atrazine	NC	NC	NC	NC	ND (0.0065)	ND (0.0061)	ND (0.0063)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0076)	ND (0.0072)	ND (0.0074)	
Benzo(a)anthracene	1	11	NC	1	ND (0.011)	0.0963	0.028	J
Benzo(a)pyrene	1	1	2.6	22	ND (0.010)	0.0986	0.029	J
Benzo(b)fluoranthene	1	11	NC	2	ND (0.011)	0.113	0.0245	J
Benzo(g,h,i)perylene	100	1,000	NC	1,000	ND (0.012)	0.0743	0.0203	J
Benzo(k)fluoranthene	1	110	NC	2	ND (0.012)	0.0893	0.033	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0094)	ND (0.0096)	
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.029)	ND (0.028)	ND (0.028)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.018)	ND (0.019)	
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.010)	
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.015)	
Chrysene	1	110	NC	1	ND (0.011)	0.106	0.0387	
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	0.0273	J ND (0.011)	
Dibenzofuran	7	1,000	NC	210	ND (0.0098)	ND (0.0093)	ND (0.0095)	
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	0.0387	J ND (0.011)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0069)	ND (0.0071)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.015)	ND (0.016)	
1,1-Biphenyl	NC	NC	60	NC	ND (0.0038)	ND (0.0036)	ND (0.0037)	
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.162	0.0553	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.010)	ND (0.010)	
Hexachlorobenzene	0	12	NC	3	ND (0.011)	ND (0.010)	ND (0.010)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0092)	ND (0.0087)	ND (0.0089)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.032)	ND (0.033)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0092)	ND (0.0087)	ND (0.0089)	
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	ND (0.012)	0.0694	0.018	J
Isophorone	NC	NC	NC	4	ND (0.0089)	ND (0.0084)	ND (0.0086)	
Naphthalene	12	1,000	NC	12	ND (0.0090)	ND (0.0085)	ND (0.0087)	
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0090)	ND (0.0093)	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0076)	ND (0.0078)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.019)	ND (0.019)	
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.053)	ND (0.055)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	0.0544	0.0216	J
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.033)	ND (0.034)	
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.156	0.0575	
Total SVOCs	NC	NC	NC	NC	ND	0.98	0.27	

Notes:

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 ND (0.010) - Not Detected (Method Detection Limit)
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 SCO - Soil Cleanup Objective
 * - Recovery or RPD exceeds control limits
 J - Value is estimated

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-19-WC	RCH-4-ENV-19-WC/2	RCH-4-ENV-19-WC/4	RCH-4-ENV-19-WC/6
Lab Sample ID					04/11/12	04/11/12	04/11/12	04/11/12
Sampling Date					JB3917-7	JB3917-3	JB3917-4	JB3917-5
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	431	2060	76.5	57.9

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-19-WC/8	RCH-4-ENV-20W-WC	RCH-4-ENV-20W-WC/2	RCH-4-ENV-20W-WC/4
Lab Sample ID					04/11/12	04/10/12	04/10/12	04/10/12
Sampling Date					JB3917-6	JB3809-15	JB3809-11	JB3809-12
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	298	67.9	34.1	14

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-20W-WC/6	RCH-4-ENV-20W-WC/8	RCH-4-ENV-21.1-WC	RCH-4-ENV-21.1-WC/2
Lab Sample ID					04/10/12	04/10/12	04/16/12	04/16/12
Sampling Date					JB3809-13	JB3809-14	JB4278-6	JB4278-1
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	14.2	ND (1.9)	168	133

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-21.1-WC/4	RCH-4-ENV-21.1-WC/8	RCH-4-ENV-19+20W+21-WC-COMP
Lab Sample ID					04/16/12	04/16/12	JB4278-7
Sampling Date					JB4278-2	JB4278-3	4/16/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
TPHC	NC	NC	NC	NC	240	ND (2.0)	762

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-22-WC	RCH-4-ENV-22-WC/2	RCH-4-ENV-22-WC/4	RCH-4-ENV-22-WC/6
Lab Sample ID					04/06/12	04/06/12	04/06/12	04/06/12
Sampling Date					JB3652-7	JB3652-3	JB3652-4	JB3652-5
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	22.2	43.9	28.8	ND (2.1)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-22-WC/8	RCH-4-ENV-23-WC	RCH-4-ENV-23-WC/2	RCH-4-ENV-23-WC/4
Lab Sample ID					04/06/12	04/06/12	04/06/12	04/06/12
Sampling Date					JB3652-6	JB3652-14	JB3652-10	JB3652-11
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	34.3	61.5	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-23-WC/6	RCH-4-ENV-23-WC/8	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-24-WC
Lab Sample ID					04/06/12	04/06/12	JB3809-8	04/10/12
Sampling Date					JB3652-12	JB3652-13	4/10/2012	JB3809-7
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	31.3	30.2

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-24-WC/2	RCH-4-ENV-24-WC/4	RCH-4-ENV-24-WC/6	RCH-4-ENV-24-WC/8
Lab Sample ID					04/10/12	04/10/12	04/10/12	04/10/12
Sampling Date					JB3809-3	JB3809-4	JB3809-5	JB3809-6
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	38.5	21.6	17	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-25W+26 COMP	RCH-4-ENV-25W-WC	RCH-4-ENV-25W-WC/2
Lab Sample ID					JB3744-8	04/09/12	04/09/12
Sampling Date					4/9/2012	JB3744-7	JB3744-3
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
TPHC	NC	NC	NC	NC	26.8	25.4	272

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-25W-WC/4	RCH-4-ENV-25W-WC/6	RCH-4-ENV-25W-WC/8	RCH-4-ENV-26-WC
Lab Sample ID					04/09/12	04/09/12	04/09/12	04/09/12
Sampling Date					JB3744-4	JB3744-5	JB3744-6	JB3744-15
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	ND (2.1)	19.6

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-26-WC/2	RCH-4-ENV-26-WC/4	RCH-4-ENV-26-WC/6	RCH-4-ENV-26-WC/8
Lab Sample ID					04/09/12	04/09/12	04/09/12	04/09/12
Sampling Date					JB3744-11	JB3744-12	JB3744-13	JB3744-14
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	28.9	39	ND (2.0)	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-27+28 COMP	RCH-4-ENV-27-WC	RCH-4-ENV-27-WC/2	RCH-4-ENV-27-WC/4
Lab Sample ID					JB3514-16	04/05/12	04/05/12	04/05/12
Sampling Date					4/5/2012	JB3514-15	JB3514-11	JB3514-12
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	14	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-27-WC/6	RCH-4-ENV-27-WC/8	RCH-4-ENV-28-WC	RCH-4-ENV-28-WC/2
Lab Sample ID					04/05/12	04/05/12	04/04/12	04/04/12
Sampling Date					JB3514-13	JB3514-14	JB3410-14	JB3410-10
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.1)	ND (2.0)	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-28-WC/4	RCH-4-ENV-28-WC/6	RCH-4-ENV-28-WC/8	RCH-4-ENV-29W-WC
Lab Sample ID					04/04/12	04/04/12	04/04/12	04/04/12
Sampling Date					JB3410-11	JB3410-12	JB3410-13	JB3410-7
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.1)	ND (2.0)	ND (2.0)	ND (1.9)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-29W-WC/2	RCH-4-ENV-29W-WC/4	RCH-4-ENV-29W-WC/6	RCH-4-ENV-29W-WC/8
Lab Sample ID					04/04/12	04/04/12	04/04/12	04/04/12
Sampling Date					JB3410-3	JB3410-4	JB3410-5	JB3410-6
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	33.7	ND (2.1)	ND (2.2)	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-29W+30 COMP	RCH-4-ENV-30-WC	RCH-4-ENV-30-WC/2	RCH-4-ENV-30-WC/4
Lab Sample ID					JB3514-8	JB3514-7	JB3514-3	JB3514-4
Sampling Date					4/5/2012	04/05/12	04/05/12	04/05/12
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	21.9	19.1	39.8	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-30-WC/6	RCH-4-ENV-30-WC/8	RCH-4-ENV-31-WC	RCH-4-ENV-31-WC/2
Lab Sample ID					JB3514-5	JB3514-6	04/03/12	04/03/12
Sampling Date					04/05/12	04/05/12	JB3229-7	JB3229-3
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.0)	ND (2.0)	64.1	24.3

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-31-WC/4	RCH-4-ENV-31-WC/6	RCH-4-ENV-31-WC/8	RCH-4-ENV-31+32 COMP
Lab Sample ID					04/03/12	04/03/12	04/03/12	JB3229-15
Sampling Date					JB3229-4	JB3229-5	JB3229-6	4/3/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	14.1	ND (2.0)	ND (1.9)	26.2

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-32-WC	RCH-4-ENV-32-WC/2	RCH-4-ENV-32-WC/4	RCH-4-ENV-32-WC/6
Lab Sample ID					04/03/12	04/03/12	04/03/12	04/03/12
Sampling Date					JB3229-14	JB3229-10	JB3229-11	JB3229-12
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (1.8)	12.4	ND (1.9)	ND (2.0)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-32-WC/8	RCH-4-ENV-33W-WC	RCH-4-ENV-33W-WC/2	RCH-4-ENV-33W-WC/4
Lab Sample ID					04/03/12	04/02/12	04/02/12	04/02/12
Sampling Date					JB3229-13	JB3142-8	JB3142-3	JB3142-4
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (1.9)	ND (1.9)	ND (1.8)	ND (1.8)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-33W-WC/6	RCH-4-ENV-33W-WC/6	RCH-4-ENV-33W+34 CO	RCH-4-ENV-34-WC
Lab Sample ID					04/02/12	04/02/12	JB3142-9	04/02/12
Sampling Date					JB3142-5	JB3142-6	4/2/2012	JB3142-16
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (1.9)	ND (1.9)	111	41.4

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-4-ENV-34-WC/2	RCH-4-ENV-34-WC/4	RCH-4-ENV-34-WC/6	RCH-4-ENV-34-WC/8
Lab Sample ID					04/02/12	04/02/12	04/02/12	04/02/12
Sampling Date					JB3142-12	JB3142-13	JB3142-14	JB3142-15
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	27.4	20.4	137	ND (1.9)

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-4 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

TRC Sample No.:	RCH-4-ENV-22+23+24 COMP	RCH-4-ENV-25W+26 COMP	RCH-4-ENV-29W+30 COMP	RCH-4-ENV-33W+34 COMP
Date Sampled:	04/10/12	04/09/12	04/05/12	04/02/12
Lab Sample No.:	JB3809-8A	JB3744-8A	JB3514-8A	JB3142-9A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

VOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
Benzene	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
2-Butanone (MEK)	200.0	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
Carbon tetrachloride	0.5	ND (0.00097)	ND (0.00097)	ND (0.00097)	ND (0.00097)
Chlorobenzene	100.0	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Chloroform	6.0	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)
1,4-Dichlorobenzene	7.5	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
1,2-Dichloroethane	0.5	ND (0.00090)	ND (0.00090)	ND (0.00090)	ND (0.00090)
1,1-Dichloroethene	0.7	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0014)
Tetrachloroethene	0.7	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0016)
Trichloroethene	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Vinyl chloride	0.2	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5
Sample ID/Depth								
Lab Sample ID					JA90105-1	JA90105-2	JA90265-5	JA90265-6
Sampling Date					10/25/2011	10/25/2011	10/26/2011	10/26/2011
Matrix					Soil	Soil	Soil	Soil
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
GENERAL CHEMISTRY								
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	267	293	251	314
Solids, Percent (%)	NC	NC	NC	NC	88.4	85.5	87.8	87
pH (su)	NC	NC	NC	NC	8.29	7.66	9.27	7.28

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-5H-ENV-3W/2	RCH-5H-ENV-3W/8	RCH-5H-ENV-4/3	RCH-5H-ENV-4/7
Sample ID/Depth								
Lab Sample ID					JA86559-1	JA86559-2	JA86667-1	JA86667-2
Sampling Date					9/19/2011	9/19/2011	9/20/2011	9/20/2011
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	248	256	354	341
Solids, Percent (%)	NC	NC	NC	NC	89.6	85.4	83.9	83.2
pH (su)	NC	NC	NC	NC	8.78	8.93	7.51	7.12

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Sample ID/Depth								
Lab Sample ID					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Sampling Date					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	225	237	241	299
Solids, Percent (%)	NC	NC	NC	NC	74.9	77.6	86.8	84.5
pH (su)	NC	NC	NC	NC	7.5	7.97	8.43	7.62

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
Sample ID/Depth						
Lab Sample ID					JA90684-1	JA90684-2
Sampling Date					10/31/2011	10/31/2011
Matrix					Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	345	345
Solids, Percent (%)	NC	NC	NC	NC	86	86.9
pH (su)	NC	NC	NC	NC	8.35	7.37

Notes:

NC - No Criterion

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5	RCH-5H-ENV-3W/2
Lab Sample ID					JA90105-1/1R	JA90105-2/2R	JA90265-5/5R	JA90265-6/6R	JA86559-1/1R
Sampling Date					10/25/2011	10/25/2011	10/26/2011	10/26/2011	9/19/2011
Matrix					Soil	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
METALS									
Aluminum	NC	NC	10000	NC	6640	6200	7560	5990	7400
Antimony	NC	NC	12	NC	<2.3	<2.4	<2.3	<2.3	<2.2
Arsenic	13	16	13	16	8	3.9	5.5	9.7	4.4
Barium	350	10,000	433	820	35	29.8	38	56.1	47.2
Beryllium	7.2	2,700	10	47	0.41	0.4	0.43	0.5	0.49
Cadmium	2.5	60	4	7.5	<0.58	<0.61	<0.59	<0.58	<0.55
Calcium	NC	NC	10000	NC	1870	3220	6970	1090	4410
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12.9	12.2	15.7	16.6	14.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.45(0.71)	<0.47(1.3)	<0.46(<0.46)	<0.46(<0.46)	<0.45(<0.45)
Cobalt	NC	NC	20	NC	<5.8	6.8	6.3	7.5	7.2
Copper	50	10,000	50	1,720	13.5	26.2	23.1	32.4	21.3
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	NA
Iron	NC	NC	NC	NC	18000	13900	18300	26500	16300
Lead	63	3,900	63	450	13.3	11	32.3	49.7	30.8
Magnesium	NC	NC	NC	NC	1480	2420	3730	1700	2450
Manganese	1,600	10,000	1600	2,000	205	260	195	418	191
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	<0.038	0.064	0.11	0.046
Nickel	30	10,000	30	130	7.8	11.2	11.3	14.3	12.5
Potassium	NC	NC	NC	NC	1430	1610	1590	<1200	1720
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.3	2.6	<2.2
Silver	2	6,800	2	8.3	<0.58	<0.61	<0.59	<0.58	<0.55
Sodium	NC	NC	NC	NC	<1200	<1200	<1200	<1200	<1100
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<1.2	<1.1
Vanadium	NC	NC	39	NC	25.6	18.4	23	19.8	23
Zinc	109	10,000	109	2,480	34.4	33.1	44.1	70.9	49.8

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
NC - No Criterion
NA - Not analyzed
SCO - Soil Cleanup Objective
<2.3 - Less than the Method Detection Limit
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. The value of the re-analyzed sample is identified by the parenthesis.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-5H-ENV-3W/8	RCH-5H-ENV-4/3	RCH-5H-ENV-4/7	RCH-5H-ENV-5/4	RCH-5H-ENV-5/7
Lab Sample ID					JA86559-2/2R	JA86667-1/1R	JA86667-2/2R	JA90574-1/1R	JA90574-2/2R
Sampling Date					9/19/2011	9/20/2011	9/20/2011	10/28/2011	10/28/2011
Matrix					Soil	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	14500	7500	10200	4070	3710
Antimony	NC	NC	12	NC	<2.3	<2.5	<2.3	<2.0	<2.0
Arsenic	13	16	13	16	2.5	5.6	4.4	3.1	<2.0
Barium	350	10,000	433	820	143	<25	70.3	28.1	<20
Beryllium	7.2	2,700	10	47	0.86	0.67	0.75	0.29	0.23
Cadmium	2.5	60	4	7.5	<0.57	<0.62	<0.58	<0.50	<0.51
Calcium	NC	NC	10000	NC	16800	1140	1220	2390	618
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	24.9	15.1	19.8	61.8	8.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	<0.48(<0.48)	<0.48(<0.48)	<0.53(<0.53)	0.76(0.93)
Cobalt	NC	NC	20	NC	11	11.8	10.5	<5.0	<5.1
Copper	50	10,000	50	1,720	15.3	15.9	12.3	5	4.4
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	NA
Iron	NC	NC	NC	NC	25700	17800	21300	8420	4670
Lead	63	3,900	63	450	14.1	20.2	12.3	15.1	3.5
Magnesium	NC	NC	NC	NC	6620	2410	3490	747	854
Manganese	1,600	10,000	1600	2,000	681	153	526	83.6	32.4
Mercury (Total)	0.18	5.7	0.18	0.73	<0.038	<0.039	<0.035	0.043	<0.041
Nickel	30	10,000	30	130	27.3	13.7	16.9	15.6	4.7
Potassium	NC	NC	NC	NC	4070	1570	2130	<1000	1190
Selenium	3.9	6,800	3.9	4	<2.3	<2.5	<2.3	<2.0	<2.0
Silver	2	6,800	2	8.3	<0.57	<0.62	<0.58	<0.50	<0.51
Sodium	NC	NC	NC	NC	<1100	<1200	<1200	<1000	<1000
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.2	<1.0	<1.0
Vanadium	NC	NC	39	NC	32.4	20.7	23.8	11.8	8
Zinc	109	10,000	109	2,480	57.1	59.6	49.5	31.9	13.3

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
NC - No Criterion
NA - Not analyzed
SCO - Soil Cleanup Objective
<2.3 - Less than the Method Detection Limit
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. TI analyzed sample is identified by the parenthesis.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth					RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5	RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
Lab Sample ID					JA90403-1/1R	JA90403-4/4R	JA90684-1/1R	JA90684-2/2R
Sampling Date					10/27/2011	10/27/2011	10/31/2011	10/31/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	6970	5980	5260	8660
Antimony	NC	NC	12	NC	<2.3	<2.4	2.4	<2.3
Arsenic	13	16	13	16	6.9	6.8	9.8	4.3
Barium	350	10,000	433	820	36.5	26.4	132	71.4
Beryllium	7.2	2,700	10	47	0.56	0.48	0.49	0.7
Cadmium	2.5	60	4	7.5	<0.58	<0.59	0.64	<0.58
Calcium	NC	NC	10000	NC	4480	637	3010	1710
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.3	11.8	12.6	18.2
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46 (<0.46)	<0.47 (1.8)	<0.47(0.53)	<0.46(1.4)
Cobalt	NC	NC	20	NC	8.6	8.8	<5.8	8.7
Copper	50	10,000	50	1,720	20.9	16.1	63.2	25.4
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	18900	16700	20700	19900
Lead	63	3,900	63	450	24.6	11.7	305	32.9
Magnesium	NC	NC	NC	NC	2700	1620	1430	3540
Manganese	1,600	10,000	1600	2,000	354	233	213	384
Mercury (Total)	0.18	5.7	0.18	0.73	<0.037	<0.038	0.44	0.039
Nickel	30	10,000	30	130	13.7	11.4	11.3	17.4
Potassium	NC	NC	NC	NC	1710	1230	<1200	2220
Selenium	3.9	6,800	3.9	4	<2.3	<2.4	<2.3	<2.3
Silver	2	6,800	2	8.3	<0.58	<0.59	<0.58	<0.58
Sodium	NC	NC	NC	NC	<1200	<1200	<1200	<1200
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	20.1	18	17.5	24.5
Zinc	109	10,000	109	2,480	119	40.2	218	77.1

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - Hexavalent chromium SCO
NC - No Criterion
NA - Not analyzed
SCO - Soil Cleanup Objective
<2.3 - Less than the Method Detection Limit
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria. TI analyzed sample is identified by the parenthesis.

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5
Sample ID/Depth					JA90105-1	JA90105-2	JA90265-5	JA90265-6
Lab Sample ID					10/25/2011	10/25/2011	10/26/2011	10/26/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.0087)	ND (0.0089)	ND (0.0087)	ND (0.0088)
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.021)	ND (0.020)	ND (0.020)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.0098)	ND (0.0099)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0087) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-5H-ENV-3W/2	RCH-5H-ENV-3W/8	RCH-5H-ENV-4/3	RCH-5H-ENV-4/7
Sample ID/Depth								
Lab Sample ID					JA86559-1	JA86559-2	JA86667-1	JA86667-2
Sampling Date					9/19/2011	9/19/2011	9/20/2011	9/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0085)	ND (0.0090)	ND (0.0091)	ND (0.0092)
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.021)	ND (0.021)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.017)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)
Aroclor 1262	NC	NC	NC	NC	ND (0.0097)	ND (0.010)	ND (0.010)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0087) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Sample ID/Depth					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Lab Sample ID					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units					Result	Result	Result	Result
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Aroclor 1016	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.0088)	ND (0.0090)
Aroclor 1221	NC	NC	NC	NC	ND (0.024)	ND (0.023)	ND (0.020)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.020)	ND (0.019)	ND (0.017)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.018)	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.010)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0087) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
Sample ID/Depth					JA90684-1	JA90684-2
Lab Sample ID					10/31/2011	10/31/2011
Sampling Date					Soil	Soil
Matrix					mg/kg	mg/kg
Units						
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0088)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.020)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0087) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth Lab Sample ID					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5
					JA90105-1	JA90105-2	JA90265-5	JA90265-6
Sampling Date					10/25/2011	10/25/2011	10/26/2011	10/26/2011
					Matrix			
Units								
					PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources
4,4'-DDD	0.0033	0.18	0.0033	14				
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00039)	ND (0.00041)	ND (0.00040)	0.0023
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00049)	ND (0.00050)	ND (0.00049)	0.0017
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00034)	ND (0.00033)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00050)	ND (0.00052)	ND (0.00050)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00043)	ND (0.00045)	ND (0.00044)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00047)	ND (0.00048)	ND (0.00047)	ND (0.00047)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00035)	ND (0.00034)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00039)	ND (0.00040)	ND (0.00039)	ND (0.00039)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00052)	ND (0.00053)	ND (0.00052)	ND (0.00052)
Endosulfan I	2.4	920	NC	102	ND (0.00032)	ND (0.00033)	ND (0.00032)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00044)	ND (0.00045)	ND (0.00044)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00060)	ND (0.00062)	ND (0.00061)	ND (0.00061)
Endrin	0.014	410	0.014	0.060	ND (0.00034)	ND (0.00035)	ND (0.00034)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00063)	ND (0.00065)	ND (0.00064)	ND (0.00064)
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00045)	ND (0.00044)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00030)	ND (0.00031)	ND (0.00031)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00041)	ND (0.00042)	ND (0.00041)	ND (0.00041)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00033)	ND (0.00034)	ND (0.00033)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00047)	ND (0.00049)	ND (0.00047)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.00084)	ND (0.00087)	ND (0.00084)	ND (0.00085)
2,4-D	NC	NC	NC	0.5	ND (0.00047)	ND (0.00048)	ND (0.00047)	ND (0.00047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00057)	ND (0.00058)	ND (0.00057)	ND (0.00057)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0015)	ND (0.0014)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00066)	ND (0.00068)	ND (0.00066)	ND (0.00067)
Dichloroprop	NC	NC	NC	NC	ND (0.00038)	ND (0.00039)	ND (0.00038)	ND (0.00039)
Dinoseb	NC	NC	NC	NC	ND (0.00030)	ND (0.00031)	ND (0.00031)	ND (0.00031)
MCPP	NC	NC	NC	NC	ND (0.51)	ND (0.53)	ND (0.51)	ND (0.52)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00034) - Not Detected (Method Detection Limit)

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-5H-ENV-3W/2	RCH-5H-ENV-3W/8	RCH-5H-ENV-4/3	RCH-5H-ENV-4/7
Lab Sample ID					JA86559-1	JA86559-2	JA86667-1	JA86667-2
Sampling Date					9/19/2011	9/19/2011	9/20/2011	9/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.00082	ND (0.00035)	ND (0.00036)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00039)	ND (0.00041)	ND (0.00041)	ND (0.00042)
4,4'-DDT	0.0033	94	0.0033	136	0.00072	a ND (0.00050)	ND (0.00051)	ND (0.00052)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00034)	ND (0.00035)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00049)	ND (0.00052)	ND (0.00053)	ND (0.00053)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00043)	ND (0.00045)	ND (0.00046)	ND (0.00046)
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00048)	ND (0.00049)	ND (0.00050)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00035)	ND (0.00036)	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00038)	ND (0.00040)	ND (0.00041)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00051)	ND (0.00053)	ND (0.00054)	ND (0.00055)
Endosulfan I	2.4	920	NC	102	ND (0.00032)	ND (0.00033)	ND (0.00034)	ND (0.00034)
Endosulfan II	2.4	920	NC	102	ND (0.00043)	ND (0.00045)	ND (0.00046)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00059)	ND (0.00062)	ND (0.00063)	ND (0.00064)
Endrin	0.014	410	0.014	0.060	ND (0.00034)	ND (0.00035)	ND (0.00036)	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00062)	ND (0.00065)	ND (0.00066)	ND (0.00067)
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00045)	ND (0.00046)	ND (0.00046)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00030)	ND (0.00031)	ND (0.00032)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00040)	ND (0.00042)	ND (0.00043)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00032)	ND (0.00034)	ND (0.00035)	ND (0.00035)
Methoxychlor	NC	NC	1.2	900	ND (0.00046)	ND (0.00049)	ND (0.00049)	ND (0.00050)
Toxaphene	NC	NC	NC	NC	ND (0.00083)	ND (0.00087)	ND (0.00088)	ND (0.00089)
2,4-D	NC	NC	NC	0.5	ND (0.00046)	ND (0.00049)	ND (0.00049)	ND (0.00050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00056)	ND (0.00059)	ND (0.00059)	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0015)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0012)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00065)	ND (0.00068)	ND (0.00069)	ND (0.00070)
Dichloroprop	NC	NC	NC	NC	ND (0.00038)	ND (0.00039)	ND (0.00040)	ND (0.00041)
Dinoseb	NC	NC	NC	NC	ND (0.00030)	ND (0.00031)	ND (0.00032)	ND (0.00032)
MCPA	NC	NC	NC	NC	ND (0.50)	ND (0.53)	ND (0.54)	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.26)	ND (0.27)	ND (0.28)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00034) - Not Detected (Method Detection Limit)

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Lab Sample ID					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Sampling Date					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00040)	ND (0.00039)	ND (0.00035)	ND (0.00036)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00046)	ND (0.00045)	ND (0.00040)	ND (0.00041)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00058)	ND (0.00056)	ND (0.00050)	ND (0.00051)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00039)	ND (0.00038)	ND (0.00034)	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00059)	ND (0.00057)	ND (0.00051)	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00051)	ND (0.00049)	ND (0.00044)	ND (0.00045)
beta-BHC	0.036	14	0.6	0.09	ND (0.00055)	ND (0.00053)	ND (0.00048)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00040)	ND (0.00039)	ND (0.00035)	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00046)	ND (0.00044)	ND (0.00040)	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00061)	ND (0.00059)	ND (0.00052)	ND (0.00054)
Endosulfan I	2.4	920	NC	102	ND (0.00038)	ND (0.00037)	ND (0.00033)	ND (0.00034)
Endosulfan II	2.4	920	NC	102	ND (0.00052)	ND (0.00050)	ND (0.00045)	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00071)	ND (0.00069)	ND (0.00061)	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00040)	ND (0.00039)	ND (0.00035)	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00074)	ND (0.00072)	ND (0.00064)	ND (0.00066)
Endrin ketone	NC	NC	NC	NC	ND (0.00051)	ND (0.00049)	ND (0.00044)	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00036)	ND (0.00035)	ND (0.00031)	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00048)	ND (0.00046)	ND (0.00042)	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00039)	ND (0.00037)	ND (0.00033)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00055)	ND (0.00054)	ND (0.00048)	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.00099)	ND (0.00096)	ND (0.00085)	ND (0.00088)
2,4-D	NC	NC	NC	0.5	ND (0.00055)	ND (0.00053)	ND (0.00048)	ND (0.00049)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00067)	ND (0.00064)	ND (0.00058)	ND (0.00059)
2,4,5-T	NC	NC	NC	1.9	ND (0.0017)	ND (0.0016)	ND (0.0014)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0013)	ND (0.0011)	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00078)	ND (0.00075)	ND (0.00067)	ND (0.00069)
Dichloroprop	NC	NC	NC	NC	ND (0.00045)	ND (0.00043)	ND (0.00039)	ND (0.00040)
Dinoseb	NC	NC	NC	NC	ND (0.00036)	ND (0.00035)	ND (0.00031)	ND (0.00032)
MCPA	NC	NC	NC	NC	ND (0.60)	ND (0.58)	ND (0.52)	ND (0.53)
MCPP	NC	NC	NC	NC	ND (0.31)	ND (0.30)	ND (0.27)	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.011)	ND (0.012)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00034) - Not Detected (Method Detection Limit)

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
Lab Sample ID					JA90684-1	JA90684-2
Sampling Date					10/31/2011	10/31/2011
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.002	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	0.007	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	0.0035	ND (0.00050)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00052)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00061)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00064)
Endrin ketone	NC	NC	NC	NC	ND (0.00044)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00041)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.0086)	ND (0.0085)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00058)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00067)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.52)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
SCO - Soil Cleanup Objective
ND (0.00034) - Not Detected (Method Detection Limit)

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix Units	RCH-5H-ENV-1W/3.5		RCH-5H-ENV-1W/7.0		RCH-5H-ENV-2/2.5		RCH-5H-ENV-2/7.5	
	Result	Result	Result	Result	Result	Result	Result	
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.0099)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.037)	ND (0.039)	ND (0.037)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.031)	ND (0.030)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.054)	ND (0.052)	ND (0.052)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.054)	ND (0.056)	ND (0.054)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.041)	ND (0.039)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0099)	ND (0.010)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.032)	ND (0.034)	ND (0.032)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.019)	ND (0.018)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.038)	ND (0.037)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.042)	ND (0.041)	ND (0.041)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0081)	ND (0.0085)	ND (0.0082)	ND (0.0083)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.039)	ND (0.041)	ND (0.039)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.033)	ND (0.032)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0097)	ND (0.0098)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.054)	ND (0.056)	ND (0.054)	ND (0.055)
Acenaphthene	20	1,000	20	98	ND (0.0093)	0.2280	ND (0.0093)	ND (0.0094)
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.011)	ND (0.010)	0.0129 ##
Acetophenone	NC	NC	NC	NC	ND (0.0056)	ND (0.0059)	ND (0.0057)	ND (0.0057)
Anthracene	100	1,000	NC	1,000	ND (0.011)	0.2500	ND (0.011)	0.0143 ##
Atrazine	NC	NC	NC	NC	ND (0.0063)	ND (0.0066)	ND (0.0063)	ND (0.0064)
Benzaldehyde	NC	NC	NC	NC	ND (0.0074)	ND (0.0077)	ND (0.0074)	ND (0.0075)
Benzo[a]anthracene	1	11	NC	1	ND (0.010)	0.0739	0.0206	J 0.0610
Benzo[a]pyrene	1	1	2.6	22	ND (0.0098)	0.0427	0.0226	J 0.0704
Benzo[b]fluoranthene	1	11	NC	2	ND (0.011)	ND (0.011)	0.0219	J 0.0630
Benzo[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	0.0247	J 0.0223	J 0.0522
Benzo[k]fluoranthene	1	110	NC	2	ND (0.012)	ND (0.013)	0.0208	J 0.0500
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0096)	ND (0.010)	ND (0.0097)	ND (0.0098)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.028)	ND (0.029)	ND (0.028)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	ND (0.011)	0.1320	0.0297	J 0.0735
Dibenz[a,h]anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.011)	0.0160 ##
Dibenzofuran	7	1,000	NC	210	ND (0.0095)	0.1940	ND (0.0096)	ND (0.0097)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	0.0619	J 0.0619	0.0527	J 0.0753
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0071)	ND (0.0074)	ND (0.0071)	ND (0.0072)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0037)	ND (0.0039)	ND (0.0037)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	ND (0.014)	0.1000	0.0304	J 0.1160
Fluorene	30	1,000	30	386	ND (0.011)	0.5210	ND (0.011)	0.0136 ##
Hexachlorobenzene	0.33	12	NC	3	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0089)	ND (0.0093)	ND (0.0089)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.034)	ND (0.033)	ND (0.033)
Hexachloroethane	NC	NC	NC	NC	ND (0.0089)	ND (0.0093)	ND (0.0089)	ND (0.0091)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.011)	0.0145	J 0.0189	J 0.0447
Isophorone	NC	NC	NC	4	ND (0.0086)	ND (0.0090)	ND (0.0087)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0087)	ND (0.0091)	ND (0.0088)	ND (0.0089)
Nitrobenzene	NC	140	40	0.17	ND (0.0093)	ND (0.0096)	ND (0.0093)	ND (0.0094)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0078)	ND (0.0081)	ND (0.0079)	ND (0.0079)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.019)
Pentachlorophenol	1	55	0.8	1	ND (0.055)	ND (0.057)	ND (0.055)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	0.1810	ND (0.015)	0.0789
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)
Pyrene	100	1,000	NC	1,000	ND (0.012)	0.3370	0.0367	0.1200
Total SVOCs	NC	NC	NC	NC	0.06	2.10	0.28	0.86

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0098) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix Units	RCH-5H-ENV-3W/2		RCH-5H-ENV-3W/8		RCH-5H-ENV-4/3		RCH-5H-ENV-4/7				
	JA86559-1		JA86559-2		JA86667-1		JA86667-2				
	9/19/2011		9/19/2011		9/20/2011		9/20/2011				
	Soil		Soil		Soil		Soil				
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO		Industrial SCO		Protection of Ecological Resources		Protection of Groundwater SCO				
	Result	Result	Result	Result	Result	Result	Result	Result			
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0097)	ND (0.010)	ND (0.010)	ND (0.011)			
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA			
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.035)	ND (0.035)			
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.037)	ND (0.039)	ND (0.040)	ND (0.040)			
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.031)	ND (0.032)	ND (0.032)			
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.051)	ND (0.054)	ND (0.055)	ND (0.055)			
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.053)	ND (0.056)	ND (0.057)	ND (0.058)			
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.041)	ND (0.042)	ND (0.042)			
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)			
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)			
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.011)			
2-Chlorophenol	NC	NC	0.8	NC	ND (0.032)	ND (0.034)	ND (0.034)	ND (0.035)			
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.019)	ND (0.019)	ND (0.019)			
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.036)	ND (0.038)	ND (0.039)	ND (0.039)			
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)			
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.035)	ND (0.036)	ND (0.036)			
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.040)	ND (0.042)	ND (0.043)	ND (0.044)			
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0080)	ND (0.0085)	ND (0.0086)	ND (0.0087)			
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.014)			
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.039)	ND (0.041)	ND (0.042)	ND (0.042)			
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)			
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.033)	ND (0.034)	ND (0.034)			
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)			
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.010)	ND (0.010)			
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA			
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)			
4-Nitrophenol	NC	NC	7	0.3	ND (0.053)	ND (0.057)	ND (0.058)	ND (0.058)			
Acenaphthene	20	1,000	20	98	ND (0.0092)	ND (0.0097)	ND (0.0099)	ND (0.010)			
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)			
Acetophenone	NC	NC	NC	NC	ND (0.0056)	ND (0.0059)	ND (0.0060)	ND (0.0060)			
Anthracene	100	1,000	NC	1,000	0.0191	J	ND (0.012)	ND (0.012)			
Atrazine	NC	NC	NC	NC	ND (0.0062)	ND (0.0066)	ND (0.0067)	ND (0.0068)			
Benzaldehyde	NC	NC	NC	NC	ND (0.0073)	ND (0.0077)	ND (0.0078)	ND (0.0079)			
Benzo(a)anthracene	1	11	NC	1	0.0397	ND (0.011)	0.0504	ND (0.011)			
Benzo(a)pyrene	1	1	2.6	22	0.0407	ND (0.010)	0.0550	ND (0.010)			
Benzo(b)fluoranthene	1	11	NC	2	0.0302	J	ND (0.011)	0.0657	ND (0.011)		
Benzo(g,h,i)perylene	100	1,000	NC	1,000	0.0321	ND (0.012)	0.0372	ND (0.013)			
Benzo(k)fluoranthene	1	110	NC	2	0.0380	ND (0.013)	0.0269	J	ND (0.013)		
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)			
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.010)	ND (0.010)			
Bis(2-ethylhexyl) phthalate	NC	NC	239	0.408	J	0.0402	J	ND (0.030)	ND (0.030)		
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.018)	ND (0.019)	ND (0.020)	ND (0.020)			
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)			
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)			
Chrysene	1	110	NC	1	0.0501	ND (0.011)	0.0419	ND (0.012)			
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)			
Dibenzofuran	7	1,000	NC	210	ND (0.0094)	ND (0.0099)	ND (0.010)	ND (0.010)			
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)			
Dimethyl phthalate	NC	NC	200	27	0.0376	J	ND (0.012)	0.0397	J	0.0574	J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0070)	ND (0.0074)	ND (0.0076)	ND (0.0076)	ND (0.0076)		
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.015)	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.017)		
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0037)	ND (0.0039)	ND (0.0040)	ND (0.0040)	ND (0.0040)		
Fluoranthene	100	1,000	NC	1,000	0.0734	J	0.0206	J	0.0391	ND (0.015)	
Fluorene	30	1,000	30	386	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)		
Hexachlorobenzene	0.33	12	NC	3	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)		
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0088)	ND (0.0093)	ND (0.0095)	ND (0.0095)	ND (0.0095)		
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.032)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.035)		
Hexachloroethane	NC	NC	NC	NC	ND (0.0088)	ND (0.0093)	ND (0.0095)	ND (0.0095)	ND (0.0095)		
Indeno(1,2,3-cd)pyrene	0.5	11	NC	8.2	0.0234	J	ND (0.012)	0.0331	J	ND (0.012)	
Isophorone	NC	NC	NC	4	ND (0.0085)	ND (0.0090)	ND (0.0092)	ND (0.0092)	ND (0.0092)		
Naphthalene	12	1,000	NC	12	ND (0.0086)	ND (0.0091)	0.0908	ND (0.0094)	ND (0.0094)		
Nitrobenzene	NC	140	40	0.17	ND (0.0091)	ND (0.0097)	ND (0.0098)	ND (0.0099)	ND (0.0099)		
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0077)	ND (0.0082)	ND (0.0083)	ND (0.0084)	ND (0.0084)		
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.021)		
Pentachlorophenol	1	55	0.8	1	ND (0.054)	ND (0.057)	ND (0.058)	ND (0.059)	ND (0.059)		
Phenanthrene	100	1,000	NC	1,000	0.0305	J	ND (0.015)	ND (0.015)	ND (0.016)		
Phenol	0.33	1,000	30	0.33	ND (0.033)	ND (0.035)	ND (0.036)	ND (0.036)	ND (0.036)		
Pyrene	100	1,000	NC	1,000	0.1180	J	0.0224	J	0.0372	ND (0.013)	
Total SVOCs	NC	NC	NC	NC	0.57	0.08	0.52	0.06			

Notes:

mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.0098) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Sample ID/Depth								
Lab Sample ID					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Sampling Date					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.039)	ND (0.038)	ND (0.034)	ND (0.035)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.044)	ND (0.043)	ND (0.038)	ND (0.039)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.036)	ND (0.035)	ND (0.031)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.061)	ND (0.059)	ND (0.053)	ND (0.054)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.064)	ND (0.062)	ND (0.055)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.047)	ND (0.045)	ND (0.040)	ND (0.041)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.017)	ND (0.016)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.015)	ND (0.014)	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.039)	ND (0.037)	ND (0.033)	ND (0.034)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.021)	ND (0.021)	ND (0.018)	ND (0.019)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.043)	ND (0.042)	ND (0.038)	ND (0.039)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.017)	ND (0.016)	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.040)	ND (0.039)	ND (0.035)	ND (0.036)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.048)	ND (0.047)	ND (0.042)	ND (0.043)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0097)	ND (0.0094)	ND (0.0084)	ND (0.0086)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.015)	ND (0.015)	ND (0.013)	ND (0.014)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.047)	ND (0.045)	ND (0.040)	ND (0.041)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.038)	ND (0.037)	ND (0.033)	ND (0.034)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.0099)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.064)	ND (0.062)	ND (0.056)	ND (0.057)
Acenaphthene	20	1,000	20	98	ND (0.011)	ND (0.011)	0.053	J ND (0.0098)
Acenaphthylene	100	1,000	NC	107	ND (0.012)	ND (0.012)	0.014	ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0067)	ND (0.0065)	ND (0.0058)	ND (0.0060)
Anthracene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	0.492	ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0075)	ND (0.0073)	ND (0.0065)	ND (0.0067)
Benzaldehyde	NC	NC	NC	NC	ND (0.0088)	ND (0.0085)	ND (0.0076)	ND (0.0078)
Benzo[a]anthracene	1	11	NC	1	ND (0.012)	ND (0.012)	0.964	0.0145 J
Benzo[a]pyrene	1	1	2.6	22	ND (0.012)	ND (0.011)	0.745	0.0149 J
Benzo[b]fluoranthene	1	11	NC	2	ND (0.013)	ND (0.012)	0.717	ND (0.011)
Benzo[g,h,i]perylene	100	1,000	NC	1,000	ND (0.014)	ND (0.014)	0.418	ND (0.013)
Benzo[k]fluoranthene	1	110	NC	2	ND (0.014)	ND (0.014)	0.546	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.0099)	ND (0.010)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	0.1510	NC (0.033)	ND (0.029)	ND (0.030)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.022)	ND (0.021)	ND (0.019)	ND (0.020)
Caprolactam	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.018)	ND (0.017)	0.020	J ND (0.016)
Chrysene	1	110	NC	1	ND (0.013)	ND (0.012)	0.867	0.0142 J
Dibenz[a,h]anthracene	0.33	1.1	NC	1,000	ND (0.013)	ND (0.013)	0.165	ND (0.012)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.011)	0.030	J ND (0.010)
Diethyl phthalate	NC	NC	100	7	ND (0.013)	ND (0.013)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	ND (0.013)	ND (0.013)	0.0588	J ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0085)	ND (0.0082)	ND (0.0073)	ND (0.0075)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.019)	ND (0.018)	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0044)	ND (0.0043)	ND (0.0038)	ND (0.0039)
Fluoranthene	100	1,000	NC	1,000	ND (0.017)	ND (0.016)	2.33	ND (0.015)
Fluorene	30	1,000	30	386	ND (0.013)	ND (0.012)	0.098	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.0092)	ND (0.0094)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.039)	ND (0.038)	ND (0.034)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.0092)	ND (0.0094)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.013)	ND (0.013)	0.429	ND (0.012)
Isophorone	NC	NC	NC	4	ND (0.010)	ND (0.0099)	ND (0.0089)	ND (0.0091)
Naphthalene	12	1,000	NC	12	0.1030	ND (0.010)	ND (0.0090)	ND (0.0092)
Nitrobenzene	NC	140	40	0.17	ND (0.011)	ND (0.011)	ND (0.0095)	ND (0.0098)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0093)	ND (0.0090)	ND (0.0080)	ND (0.0083)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.023)	ND (0.022)	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.065)	ND (0.063)	ND (0.056)	ND (0.058)
Phenanthrene	100	1,000	NC	1,000	ND (0.017)	ND (0.017)	1.16	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.040)	ND (0.039)	ND (0.035)	ND (0.036)
Pyrene	100	1,000	NC	1,000	ND (0.015)	ND (0.014)	1.60	0.0137 J
Total SVOCs	NC	NC	NC	NC	0.25	ND	10.71	0.06

Notes:

mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.0098) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
Sample ID/Depth						
Lab Sample ID					JA90684-1	JA90684-2
Sampling Date					10/31/2011	10/31/2011
Matrix					Soil	Soil
Units					mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.034)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.038)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.031)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.053)	ND (0.053)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.055)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.040)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.033)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.018)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.037)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.035)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.042)
3,3-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0084)	ND (0.0084)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.040)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.033)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)
4-Methylphenol	NC	NC	NC	NC	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.056)
Acenaphthene	20	1,000	20	98	ND (0.0096)	ND (0.0095)
Acenaphthylene	100	1,000	NC	107	0.0175	J ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0058)	ND (0.0058)
Anthracene	100	1,000	NC	1,000	0.0275	J ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0065)	ND (0.0065)
Benzaldehyde	NC	NC	NC	NC	ND (0.0076)	ND (0.0076)
Benzo[a]anthracene	1	11	NC	1	0.186	0.0229 J
Benzo[a]pyrene	1	1	2.6	22	0.203	0.024 J
Benzo[b]fluoranthene	1	11	NC	2	0.163	0.0179 J
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.154	0.0189 J
Benzo[k]fluoranthene	1	110	NC	2	0.129	0.0213 J
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0099)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.029)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)
Chrysene	1	110	NC	1	0.202	0.0216 J
Dibenz[a,h]anthracene	0.33	1.1	NC	1,000	0.0374	ND (0.011)
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	ND (0.0098)
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0073)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0038)
Fluoranthene	100	1,000	NC	1,000	0.293	0.0291 J
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0092)	ND (0.0091)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.034)
Hexachloroethane	NC	NC	NC	NC	ND (0.0092)	ND (0.0091)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.119	0.0155 J
Isophorone	NC	NC	NC	4	ND (0.0089)	ND (0.0088)
Naphthalene	12	1,000	NC	12	ND (0.0091)	ND (0.0090)
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0095)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0080)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.056)
Phenanthrene	100	1,000	NC	1,000	0.107	ND (0.015)
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.035)
Pyrene	100	1,000	NC	1,000	0.31	0.0242 J
Total SVOCs	NC	NC	NC	NC	1.95	0.20

Notes:

mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.0098) - Not Detected (Method Detection Limit)
SCO - Soil Cleanup Objective
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5
Lab Sample ID					JA90105-1	JA90105-2	JA90265-5	JA90265-6
Sampling Date					10/25/2011	10/25/2011	10/26/2011	10/26/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.2)	163	ND (2.3)	ND (2.3)
TPH-DRO (C10-C44)	NC	NC	NC	NC	138	6550	137	81

Notes:

- NC - No Criterion
- ND (2.2) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID					RCH-5H-ENV-3W/2	RCH-5H-ENV-3W/8	RCH-5H-ENV-4/3	RCH-5H-ENV-4/7
Lab Sample ID					JA86559-1	JA86559-2	JA86667-1	JA86667-2
Sampling Date					9/19/2011	9/19/2011	9/20/2011	9/20/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.2)	ND (2.4)	ND (2.5)	ND (2.5)
TPH-DRO (C10-C44)	NC	NC	NC	NC	152	31	ND (12)	ND (12)

Notes:

- NC - No Criterion
- ND (2.2) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Lab Sample ID					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Sampling Date					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.0)	ND (2.8)	ND (2.3)	ND (2.4)
TPH-DRO (C10-C44)	NC	NC	NC	NC	25.8	22.4	36.8	35.5

Notes:

- NC - No Criterion
- ND (2.2) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5
					Lab Sample ID	JA90684-1	JA90684-2
					Sampling Date	10/31/2011	10/31/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.4)	ND (2.3)	
TPH-DRO (C10-C44)	NC	NC	NC	NC	61.7	24.4	

Notes:

- NC - No Criterion
- ND (2.2) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- GRO - Gasoline Range Organics
- DRO - Diesel Range Organics

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-5H-ENV-1W/3.5	RCH-5H-ENV-1W/7.0	RCH-5H-ENV-2/2.5	RCH-5H-ENV-2/7.5
Lab Sample ID					JA90105-1	JA90105-2	JA90265-5	JA90265-6
Sampling Date					10/25/2011	10/25/2011	10/26/2011	10/26/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00029)	ND (0.015)	ND (0.00029)	ND (0.00029)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00022)	ND (0.011)	ND (0.00021)	ND (0.00022)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00052)	ND (0.028)	ND (0.00051)	ND (0.00053)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.014)	ND (0.00026)	ND (0.00027)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00074)	ND (0.039)	ND (0.00073)	ND (0.00075)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00053)	ND (0.028)	ND (0.00052)	ND (0.00054)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00041)	ND (0.022)	ND (0.00040)	ND (0.00042)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.096)	ND (0.0018)	ND (0.0018)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.015)	ND (0.00028)	ND (0.00029)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00033)	ND (0.018)	ND (0.00033)	ND (0.00034)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.012)	ND (0.00022)	ND (0.00022)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00032)	ND (0.017)	ND (0.00032)	ND (0.00033)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.012)	ND (0.00023)	ND (0.00023)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00020)	ND (0.011)	ND (0.00020)	ND (0.00021)
1,4-Dioxane	0.1	250	1	0.1	ND (0.070)	ND (3.7)	ND (0.069)	ND (0.071)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0052)	ND (0.28)	ND (0.0051)	ND (0.0053)
2-Hexanone	NC	NC	NC	NC	ND (0.0030)	ND (0.16)	ND (0.0029)	ND (0.0030)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0032)	ND (0.17)	ND (0.0031)	ND (0.0032)
Acetone	0.05	1,000	2.2	0.05	ND (0.0080)	ND (0.42)	0.0181	0.0234
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.0085)	0.0021	ND (0.00016)
Bromochloromethane	NC	NC	NC	NC	ND (0.00062)	ND (0.033)	ND (0.00062)	ND (0.00063)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.014)	ND (0.00027)	ND (0.00027)
Bromoform	NC	NC	NC	NC	ND (0.00091)	ND (0.048)	ND (0.00090)	ND (0.00092)
Bromomethane	NC	NC	NC	NC	ND (0.00047)	ND (0.025)	ND (0.00047)	ND (0.00048)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00024)	ND (0.012)	0.0065	0.0082 J
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00042)	ND (0.022)	ND (0.00041)	ND (0.00042)
Chlorobenzene	1	1,000	40	1	ND (0.00039)	ND (0.020)	ND (0.00038)	ND (0.00039)
Chloroethane	NC	NC	NC	1.9	ND (0.00049)	ND (0.026)	ND (0.00048)	ND (0.00050)
Chloroform	0.37	700	12	0.37	ND (0.00058)	ND (0.031)	ND (0.00057)	ND (0.00059)
Chloromethane	NC	NC	NC	NC	ND (0.00075)	ND (0.040)	ND (0.00074)	ND (0.00076)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00039)	ND (0.020)	ND (0.00038)	ND (0.00039)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.0097)	ND (0.00018)	ND (0.00019)
Cyclohexane	NC	NC	NC	NC	ND (0.00046)	ND (0.024)	ND (0.00045)	ND (0.00046)
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.011)	ND (0.00020)	ND (0.00021)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.020)	ND (0.00038)	ND (0.00039)
Ethylbenzene	1	780	NC	1	ND (0.00018)	ND (0.0094)	0.0004	J ND (0.00018)
Freon TF ⁽²⁾	NC	NC	NC	6.3	ND (0.00086)	ND (0.046)	ND (0.00085)	ND (0.00088)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00016)	ND (0.0087)	0.00063	J ND (0.00017)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00038)	ND (0.020)	0.0011	J ND (0.00038)
Methyl acetate	NC	NC	NC	NC	ND (0.00027)	ND (0.14)	ND (0.0026)	ND (0.0027)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00029)	0.0872	J 0.00067	J ND (0.00030)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00028)	ND (0.015)	ND (0.00027)	ND (0.00028)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.011)	ND (0.00021)	ND (0.00022)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00022)	ND (0.012)	0.00033	J ND (0.00022)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.012)	ND (0.00022)	ND (0.00023)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00023)	ND (0.012)	ND (0.00023)	ND (0.00023)
Toluene	0.7	1,000	36	0.7	ND (0.00045)	ND (0.024)	0.00047	ND (0.00046)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00051)	ND (0.027)	ND (0.00050)	ND (0.00052)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00040)	ND (0.021)	ND (0.00040)	ND (0.00041)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00030)	ND (0.016)	ND (0.00029)	ND (0.00030)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.031)	ND (0.00057)	ND (0.00059)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00055)	ND (0.029)	ND (0.00055)	ND (0.00056)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00022)	ND (0.012)	0.0014	ND (0.00022)
Total VOCs	NC	NC	NC	NC	ND	0.087	0.030	0.024

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00029) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix	RCH-5H-ENV-3W/2		RCH-5H-ENV-3W/8		RCH-5H-ENV-4/3		RCH-5H-ENV-4/7		
	JA86559-1		JA86559-2		JA86667-1		JA86667-2		
Units	mg/kg		mg/kg		mg/kg		mg/kg		
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00031)	ND (0.00029)	ND (0.00032)	ND (0.00032)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00023)	ND (0.00021)	ND (0.00024)	ND (0.00024)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00052)	ND (0.00057)	ND (0.00058)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00028)	ND (0.00026)	ND (0.00029)	ND (0.00029)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00078)	ND (0.00073)	ND (0.00081)	ND (0.00082)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00056)	ND (0.00052)	ND (0.00058)	ND (0.00058)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00043)	ND (0.00041)	ND (0.00045)	ND (0.00046)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0019)	ND (0.0018)	ND (0.0020)	ND (0.0020)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00028)	ND (0.00032)	ND (0.00032)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00035)	ND (0.00033)	ND (0.00037)	ND (0.00037)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00023)	ND (0.00022)	ND (0.00024)	ND (0.00024)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00034)	ND (0.00032)	ND (0.00035)	ND (0.00036)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00024)	ND (0.00023)	ND (0.00025)	ND (0.00026)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00022)	ND (0.00020)	ND (0.00023)	ND (0.00023)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.074)	ND (0.070)	ND (0.077)	ND (0.078)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0055)	ND (0.0052)	ND (0.0057)	ND (0.0058)	
2-Hexanone	NC	NC	NC	NC	ND (0.0031)	ND (0.0030)	ND (0.0033)	ND (0.0033)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0033)	ND (0.0031)	ND (0.0035)	ND (0.0035)	
Acetone	0.05	1,000	2.2	0.05	0.0117	J ND (0.0079)	0.0107	J ND (0.0088)	
Benzene	0.06	89	70	0.06	ND (0.00017)	ND (0.00016)	ND (0.00018)	ND (0.00018)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00066)	ND (0.00062)	ND (0.00069)	ND (0.00069)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00028)	ND (0.00027)	ND (0.00030)	ND (0.00030)	
Bromoform	NC	NC	NC	NC	ND (0.00096)	ND (0.00090)	ND (0.0010)	ND (0.0010)	
Bromomethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00047)	ND (0.00052)	ND (0.00053)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00025)	ND (0.00023)	ND (0.00026)	ND (0.00026)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00044)	ND (0.00041)	ND (0.00046)	ND (0.00046)	
Chlorobenzene	1	1,000	40	1	ND (0.00041)	ND (0.00038)	ND (0.00043)	ND (0.00043)	
Chloroethane	NC	NC	NC	1.9	ND (0.00052)	ND (0.00049)	ND (0.00054)	ND (0.00054)	
Chloroform	0.37	700	12	0.37	ND (0.00061)	ND (0.00058)	ND (0.00064)	ND (0.00065)	
Chloromethane	NC	NC	NC	NC	ND (0.00079)	ND (0.00075)	ND (0.00083)	ND (0.00083)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00041)	ND (0.00038)	ND (0.00043)	ND (0.00043)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00018)	ND (0.00020)	ND (0.00020)	
Cyclohexane	NC	NC	NC	NC	ND (0.00048)	ND (0.00045)	ND (0.00050)	ND (0.00051)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00021)	ND (0.00020)	ND (0.00022)	ND (0.00022)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00038)	ND (0.00043)	ND (0.00043)	
Ethylbenzene	1	780	NC	1	ND (0.00019)	ND (0.00018)	0.00048	J ND (0.00020)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00091)	ND (0.00086)	ND (0.00095)	ND (0.00096)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	ND (0.00016)	ND (0.00018)	ND (0.00018)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00053	J ND (0.00038)	0.0019	0.00049	J
Methyl acetate	NC	NC	NC	NC	ND (0.00028)	ND (0.00027)	ND (0.00029)	ND (0.00030)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00031)	ND (0.00029)	ND (0.00032)	ND (0.00033)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00029)	ND (0.00027)	ND (0.00030)	ND (0.00031)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00023)	ND (0.00021)	ND (0.00024)	ND (0.00024)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00023)	ND (0.00022)	0.0008	J ND (0.00025)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00023)	ND (0.00022)	ND (0.00025)	ND (0.00025)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00024)	ND (0.00023)	ND (0.00025)	ND (0.00026)	
Toluene	0.7	1,000	36	0.7	ND (0.00048)	ND (0.00045)	0.00097	J ND (0.00050)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00054)	ND (0.00051)	ND (0.00056)	ND (0.00057)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00043)	ND (0.00040)	ND (0.00044)	ND (0.00045)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00031)	ND (0.00030)	ND (0.00033)	ND (0.00033)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00058)	ND (0.00064)	ND (0.00064)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00058)	ND (0.00055)	ND (0.00061)	ND (0.00062)	
Xylene (total)	0.26	1,000	0.26	1.6	0.00053	J ND (0.00022)	0.0027	0.00049	J
Total VOCs	NC	NC	NC	NC	0.012	ND	0.015	0.0005	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00029) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID/Depth					RCH-5H-ENV-5/4	RCH-5H-ENV-5/7	RCH-5H-ENV-6.1W/3.5	RCH-5H-ENV-6.1W/7.5
Lab Sample ID					JA90574-1	JA90574-2	JA90403-1	JA90403-4
Sampling Date					10/28/2011	10/28/2011	10/27/2011	10/27/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00036)	ND (0.00035)	ND (0.00031)	ND (0.00032)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00027)	ND (0.00026)	ND (0.00023)	ND (0.00024)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00064)	ND (0.00062)	ND (0.00055)	ND (0.00057)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00032)	ND (0.00031)	ND (0.00028)	ND (0.00029)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00091)	ND (0.00088)	ND (0.00078)	ND (0.00081)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00065)	ND (0.00063)	ND (0.00056)	ND (0.00058)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00051)	ND (0.00049)	ND (0.00044)	ND (0.00045)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0022)	ND (0.0022)	ND (0.0019)	ND (0.0020)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00035)	ND (0.00034)	ND (0.00030)	ND (0.00031)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00041)	ND (0.00040)	ND (0.00035)	ND (0.00036)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00027)	ND (0.00026)	ND (0.00023)	ND (0.00024)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00039)	ND (0.00038)	ND (0.00034)	ND (0.00035)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00028)	ND (0.00027)	ND (0.00025)	ND (0.00025)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00025)	ND (0.00024)	ND (0.00022)	ND (0.00022)
1,4-Dioxane	0.1	250	1	0.1	ND (0.086)	ND (0.083)	ND (0.075)	ND (0.077)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0064)	ND (0.0062)	ND (0.0055)	ND (0.0057)
2-Hexanone	NC	NC	NC	NC	ND (0.0037)	ND (0.0036)	ND (0.0032)	ND (0.0033)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0039)	ND (0.0038)	ND (0.0034)	ND (0.0035)
Acetone	0.05	1,000	2.2	0.05	ND (0.0098)	ND (0.0095)	ND (0.0085)	ND (0.0087)
Benzene	0.06	89	70	0.06	ND (0.00020)	ND (0.00019)	ND (0.00017)	ND (0.00017)
Bromochloromethane	NC	NC	NC	NC	ND (0.00077)	ND (0.00074)	ND (0.00066)	ND (0.00068)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00032)	ND (0.00029)	ND (0.00029)
Bromoform	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.00097)	ND (0.00099)
Bromomethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00056)	ND (0.00050)	ND (0.00052)
Carbon disulfide	NC	NC	NC	2.7	0.0025	0.0024	ND (0.00025)	ND (0.00026)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00051)	ND (0.00050)	ND (0.00044)	ND (0.00045)
Chlorobenzene	1	1,000	40	1	ND (0.00048)	ND (0.00046)	ND (0.00041)	ND (0.00042)
Chloroethane	NC	NC	NC	1.9	ND (0.00061)	ND (0.00058)	ND (0.00052)	ND (0.00054)
Chloroform	0.37	700	12	0.37	ND (0.00072)	ND (0.00069)	ND (0.00062)	ND (0.00064)
Chloromethane	NC	NC	NC	NC	ND (0.00093)	ND (0.00089)	ND (0.00080)	ND (0.00082)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00048)	ND (0.00046)	ND (0.00041)	ND (0.00042)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00023)	ND (0.00022)	ND (0.00019)	ND (0.00020)
Cyclohexane	NC	NC	NC	NC	ND (0.00056)	ND (0.00054)	ND (0.00049)	ND (0.00050)
Dibromochloromethane	NC	NC	10	NC	ND (0.00025)	ND (0.00024)	ND (0.00022)	ND (0.00022)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00046)	ND (0.00041)	ND (0.00042)
Ethylbenzene	1	780	NC	1	0.00035	0.00035	ND (0.00019)	ND (0.00019)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.0011)	ND (0.0010)	ND (0.00092)	ND (0.00094)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00020)	ND (0.00020)	ND (0.00018)	ND (0.00018)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00047)	0.00078	ND (0.00040)	ND (0.00041)
Methyl acetate	NC	NC	NC	NC	ND (0.00033)	ND (0.00032)	ND (0.00028)	ND (0.00029)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00036)	ND (0.00035)	ND (0.00031)	ND (0.00032)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00034)	ND (0.00033)	ND (0.00029)	ND (0.00030)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00027)	ND (0.00026)	ND (0.00023)	ND (0.00024)
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00027)	0.00049	ND (0.00024)	ND (0.00024)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA
Styrene	NC	NC	300	NC	ND (0.00027)	ND (0.00026)	ND (0.00024)	ND (0.00024)
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00028)	ND (0.00027)	ND (0.00024)	ND (0.00025)
Toluene	0.7	1,000	36	0.7	ND (0.00056)	ND (0.00054)	ND (0.00048)	ND (0.00050)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00063)	ND (0.00061)	ND (0.00054)	ND (0.00056)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00050)	ND (0.00048)	ND (0.00043)	ND (0.00044)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00037)	ND (0.00035)	ND (0.00032)	ND (0.00032)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00072)	ND (0.00069)	ND (0.00062)	ND (0.00063)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00068)	ND (0.00066)	ND (0.00059)	ND (0.00061)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00027)	0.0013	ND (0.00024)	ND (0.00024)
Total VOCs	NC	NC	NC	NC	0.003	0.004	ND	ND

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00029) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					RCH-5H-ENV-7/3	RCH-5H-ENV-7/7.5	
					Sample ID/Depth	JA90684-1	JA90684-2
					Lab Sample ID	10/31/2011	10/31/2011
					Sampling Date	Soil	Soil
					Matrix	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00031)	ND (0.00031)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00023)	ND (0.00023)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00056)	ND (0.00055)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00028)	ND (0.00028)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00079)	ND (0.00078)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00057)	ND (0.00056)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00044)	ND (0.00044)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0020)	ND (0.0019)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00030)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00036)	ND (0.00035)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00024)	ND (0.00023)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00034)	ND (0.00034)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)	ND (0.00025)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00022)	ND (0.00022)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.075)	ND (0.074)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0056)	ND (0.0055)	
2-Hexanone	NC	NC	NC	NC	ND (0.0032)	ND (0.0032)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0034)	ND (0.0034)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0086)	ND (0.0085)	
Benzene	0.06	89	70	0.06	ND (0.00017)	ND (0.00017)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00067)	ND (0.00066)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00029)	
Bromoform	NC	NC	NC	NC	ND (0.00098)	ND (0.00097)	
Bromomethane	NC	NC	NC	NC	ND (0.00051)	ND (0.00050)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00025)	ND (0.00025)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00045)	ND (0.00044)	
Chlorobenzene	1	1,000	40	1	ND (0.00042)	ND (0.00041)	
Chloroethane	NC	NC	NC	1.9	ND (0.00053)	ND (0.00052)	
Chloroform	0.37	700	12	0.37	ND (0.00062)	ND (0.00062)	
Chloromethane	NC	NC	NC	NC	ND (0.00081)	ND (0.00080)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00042)	ND (0.00041)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)	ND (0.00019)	
Cyclohexane	NC	NC	NC	NC	ND (0.00049)	ND (0.00048)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00022)	ND (0.00021)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00041)	
Ethylbenzene	1	780	NC	1	ND (0.00019)	ND (0.00019)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00093)	ND (0.00092)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00018)	ND (0.00018)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00041)	ND (0.00040)	
Methyl acetate	NC	NC	NC	NC	ND (0.00029)	ND (0.00028)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00032)	ND (0.00031)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00030)	ND (0.00029)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00023)	ND (0.00023)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)	ND (0.00024)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00024)	ND (0.00024)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00025)	ND (0.00024)	
Toluene	0.7	1,000	36	0.7	ND (0.00049)	ND (0.00048)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00055)	ND (0.00054)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00043)	ND (0.00043)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00032)	ND (0.00032)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00062)	ND (0.00062)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00060)	ND (0.00059)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00024)	ND (0.00024)	
Total VOCs	NC	NC	NC	NC	ND	ND	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00029) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-5H-ENV-8-WC	RCH-5H-ENV-8-WC/1	RCH-5H-ENV-8-WC/2	RCH-5H-ENV-8-WC/3
Lab Sample ID					JB16823-9	JB16823-1	JB16823-2	JB16823-3
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	149	NA	NA	NA
Solids %	NC	NC	NC	NC	NA	94.6	95.7	93.7
pH (su)	NC	NC	NC	NC	10.85	NA	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-5H-ENV-8-WC/4	RCH-5H-ENV-8-WC/5	RCH-5H-ENV-8-WC/6	RCH-5H-ENV-8-WC/7
Lab Sample ID					JB16823-4	JB16823-5	JB16823-6	JB16823-7
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	170	NA	NA
Solids %	NC	NC	NC	NC	92.8	86.6	86.4	86
pH (su)	NC	NC	NC	NC	NA	11.31	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-5H-ENV-8-WC/8	RCH-5H-TESTPIT-1-WC-COMP	RCH-5H-TESTPIT-1-WC/1	RCH-5H-TESTPIT-1-WC/2
Lab Sample ID					JB16823-8	JB32956-4	JB32956-1	JB32956-2
Sampling Date					9/19/2012	4/1/2013	4/1/2013	4/1/2013
Matrix					Soil	Soil	Soil	Soil
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
GENERAL CHEMISTRY								
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	274	NA	NA
Solids %	NC	NC	NC	NC	86.2	NA	89.2	89.6
pH (su)	NC	NC	NC	NC	NA	8.36	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-5H-TESTPIT-1-WC/3	RCH-5-TESTPIT-2-WC-COMP	RCH-5-TESTPIT-2-WC/2	RCH-5-TESTPIT-2-WC/4
Lab Sample ID					JB32956-3	JB33021-5	JB33021-1	JB33021-2
Sampling Date					4/1/2013	4/2/2013	4/2/2013	4/2/2013
Matrix					Soil	Accutest	Accutest	Accutest
					Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	261	NA	NA
Solids %	NC	NC	NC	NC	86.4	NA	93.5	89.5
pH (su)	NC	NC	NC	NC	NA	9.49	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

Sample ID/Depth					RCH-5-TESTPIT-2-WC/6	RCH-5-TESTPIT-2-WC/8
Lab Sample ID					JB33021-3	JB33021-4
Sampling Date					4/2/2013	4/2/2013
Matrix					Accutest	Accutest
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA
Solids %	NC	NC	NC	NC	88.1	89
pH (su)	NC	NC	NC	NC	NA	NA

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

	RCH-5H-TESTPIT-1-	RCH-5H-TESTPIT-2-	RCH-5H-TESTPIT-3-	RCH-5H-TESTPIT-4-
TRC Sample No.:	WC-COMP	WC-COMP	WC-COMP	WC-COMP
Date Sampled:	04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.:	JB32956-4A	JB33021-5A	JB38272-5A	JB37946-5A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
Arsenic	5.0	ND (0.50)	ND (0.50)	ND (0.50)	ND (500)
Barium	100.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1000)
Cadmium	1.0	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (5.0)
Chromium	5.0	ND (0.010)	ND (0.010)	ND (0.010)	ND (10)
Copper	NC	ND (0.040)	ND (0.025)	ND (0.030)	ND (25)
Lead	5.0	ND (0.50)	ND (0.50)	ND (0.50)	ND (500)
Mercury	0.2	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)
Nickel	NC	ND (0.040)	ND (0.040)	ND (0.040)	ND (40)
Selenium	1.0	ND (0.50)	ND (0.50)	ND (0.50)	ND (500)
Silver	5.0	ND (0.010)	ND (0.010)	ND (0.010)	ND (10)
Zinc	NC	1.1	ND (0.020)	ND (0.30)	164

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

	RCH-5H-TESTPIT-5-	RCH-5H-TESTPIT-6-
TRC Sample No.:	WC-COMP	WC-COMP
Date Sampled:	05/22/13	05/17/13
Lab Sample No.:	JB37663-5A	JB37351-5A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result
Arsenic	5.0	ND (0.50)	ND (0.50)
Barium	100.0	ND (1.0)	ND (1.0)
Cadmium	1.0	ND (0.0050)	ND (0.0050)
Chromium	5.0	ND (0.010)	ND (0.010)
Copper	NC	ND (0.025)	ND (0.025)
Lead	5.0	ND (0.50)	ND (0.50)
Mercury	0.2	ND (0.00020)	ND (0.00020)
Nickel	NC	ND (0.040)	ND (0.040)
Selenium	1.0	ND (0.50)	ND (0.50)
Silver	5.0	ND (0.010)	ND (0.010)
Zinc	NC	0.051	0.067

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID/Depth		RCH-5H-ENV-8-WC	RCH-5H-TESTPIT-1-WC-COMP	RCH-5-TESTPIT-2-WC-COMP			
Lab Sample ID		JB16823-9	JB32956-4	JB33021-5			
Sampling Date		9/19/2012	4/1/2013	4/2/2013			
Matrix		Soil	Soil	Soil			
Units		mg/kg	mg/kg	mg/kg			
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
	Aluminum	NC	NC	10000	NC	8160	5590
Antimony	NC	NC	12	NC	<2.2	<2.1	<2.2
Arsenic	13	16	13	16	5.6	5.6	6.7
Barium	350	10,000	433	820	40.4	25.5	23.7
Beryllium	7.2	2,700	10	47	0.37	0.39	0.57
Cadmium	2.5	60	4	7.5	<0.54	<0.52	<0.55
Calcium	NC	NC	10000	NC	5410	2030	1740
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12.6	10.6	10.6
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.43	<0.19	<0.19
Chromium (Trivalent)	30	6800	41	NC	12.6	<0.44	<0.45
Cobalt	NC	NC	20	NC	9.1	10.2	10.4
Copper	50	10,000	50	1,720	32.4	5.7	9.6
Cyanide (Total)	27	10,000	NC	40	<0.26	22.1	8.7
Iron	NC	NC	NC	NC	19400	14500	17300
Lead	63	3,900	63	450	24.1	23	7.4
Magnesium	NC	NC	NC	NC	2300	1660	1590
Manganese	1,600	10,000	1600	2,000	397	191	306
Mercury (Total)	0.18	5.7	0.18	0.73	<0.036	<0.032	<0.036
Molybdenum	NC	NC	2	NC	<2.2	<2.1	<2.2
Nickel	30	10,000	30	130	10.8	8	8.1
Potassium	NC	NC	NC	NC	1850	1130	1460
Selenium	3.9	6,800	3.9	4	<2.2	<2.1	<2.2
Silver	2	6,800	2	8.3	0.56	<0.52	2.1
Sodium	NC	NC	NC	NC	<1100	<1000	<1100
Thallium	NC	NC	5	NC	<1.1	<1.0	<1.1
Vanadium	NC	NC	39	NC	22.8	19.4	18.2
Zinc	109	10,000	109	2,480	46.3	111	32.5

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

a - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-5 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-5H-TESTPIT-1-WC-COMP	RCH-5-TESTPIT-2-WC-COMP
Lab Sample ID					JB32956-4	JB33021-5
Sampling Date					4/1/2013	4/2/2013
Matrix					Soil	Soil
Units					mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0093)	ND (0.010)
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.024)
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.020)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.013)
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.019)
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.013)
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.012)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.013)
Total PCBs	0.1	25	1	3.2	ND	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP PESTICIDES AND HERBICIDES

	RCH-5H-TESTPIT-1-	RCH-5H-TESTPIT-2-	RCH-5H-TESTPIT-3-	RCH-5H-TESTPIT-4-
TRC Sample No.:	WC-COMP	WC-COMP	WC-COMP	WC-COMP
Date Sampled:	04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.:	JB32956-4A	JB33021-5A	JB38272-5A	JB37946-5A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)	RCH-5H-TESTPIT-1- WC-COMP	RCH-5H-TESTPIT-2- WC-COMP	RCH-5H-TESTPIT-3- WC-COMP	RCH-5H-TESTPIT-4- WC-COMP
gamma-BHC (Lindane)	0.40	ND (0.000041)	ND (0.000041)	ND (0.000041)	ND (0.000041)
Chlordane	0.03	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Endrin	0.02	ND (0.000064)	ND (0.000064)	ND (0.000064)	ND (0.000064)
Heptachlor	0.01	ND (0.000084)	ND (0.000084)	ND (0.000084)	ND (0.000084)
Heptachlor epoxide	0.01	ND (0.000038)	ND (0.000038)	ND (0.000038)	ND (0.000038)
Methoxychlor	10	ND (0.000082)	ND (0.000082)	ND (0.000082)	ND (0.000082)
Toxaphene	0.5	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
2,4-D	NC	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
2,4,5-TP (Silvex)	NC	ND (0.00018)	ND (0.00018)	ND (0.00018)	ND (0.00018)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP PESTICIDES AND HERBICIDES

	RCH-5H-TESTPIT-5-	RCH-5H-TESTPIT-6-
TRC Sample No.:	WC-COMP	WC-COMP
Date Sampled:	05/22/13	05/17/13
Lab Sample No.:	JB37663-5A	JB37351-5A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)			
gamma-BHC (Lindane)	0.40	ND (0.000041)	ND (0.000041)	
Chlordane	0.03	ND (0.0024)	ND (0.0024)	
Endrin	0.02	ND (0.000064)	ND (0.000064)	
Heptachlor	0.01	ND (0.000084)	ND (0.000084)	
Heptachlor epoxide	0.01	ND (0.000038)	ND (0.000038)	
Methoxychlor	10	ND (0.000082)	ND (0.000082)	
Toxaphene	0.5	ND (0.0015)	ND (0.0015)	
2,4-D	NC	ND (0.0013)	ND (0.0013)	
2,4,5-TP (Silvex)	NC	ND (0.00018)	ND (0.00018)	

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					RCH-5H-TESTPIT-1-WC-COMP	RCH-5-TESTPIT-2-WC-COMP
Sample ID/Depth						
Lab Sample ID					JB32956-4	JB32956-5
Sampling Date					4/1/2013	4/2/2013
Matrix					Soil	Soil
Units					mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00039)	ND (0.00043)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00029)	ND (0.00032)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00035)	ND (0.00039)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00036)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00021)	ND (0.00024)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00027)	ND (0.00029)
beta-BHC	0.036	14	0.6	0.09	ND (0.00045)	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00050)	ND (0.00055)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00035)	ND (0.00039)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00028)	ND (0.00031)
Endosulfan-I	2.4	920	NC	102	ND (0.00027)	ND (0.00030)
Endosulfan-II	2.4	920	NC	102	ND (0.00043)	ND (0.00047)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00031)	ND (0.00034)
Endrin	0.014	410	0.014	0.060	ND (0.00023)	ND (0.00026)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00038)	ND (0.00041)
Endrin ketone	NC	NC	NC	NC	ND (0.00029)	ND (0.00032)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00035)	ND (0.00039)
Heptachlor	0.042	29	0.14	0.38	ND (0.00035)	ND (0.00039)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00027)	ND (0.00030)
Methoxychlor	NC	NC	1.2	900	ND (0.00070)	ND (0.00077)
Toxaphene	NC	NC	NC	NC	ND (0.0091)	ND (0.010)
2,4-D	NC	NC	NC	0.5	ND (0.0053)	ND (0.0054)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00065)	ND (0.00065)
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0016)
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0013)
Dicamba	NC	NC	NC	NC	ND (0.00075)	ND (0.00076)
Dichloroprop	NC	NC	NC	NC	ND (0.0044)	ND (0.0044)
Dinoseb	NC	NC	NC	NC	ND (0.0035)	ND (0.0035)
MCPA	NC	NC	NC	NC	ND (0.58)	ND (0.59)
MCPP	NC	NC	NC	NC	ND (0.30)	ND (0.30)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0013)
2,4-DB	NC	NC	NC	NC	ND (0.013)	ND (0.013)

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective
 ND (0.00039) - Not Detected (Method Detection Limit)
 b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for confirmation only.

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP pH

		RCH-5H-TESTPIT-1-	RCH-5H-TESTPIT-2-	RCH-5H-TESTPIT-3-	RCH-5H-TESTPIT-4-
TRC Sample ID/Depth		WC-COMP	WC-COMP	WC-COMP	WC-COMP
Date Sampled		04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.		JB32956-4A	JB33021-5A	JB38272-5A	JB37946-5A
Matrix		Soil	Soil	Soil	Soil
Depth Interval		Composite	Composite	Composite	Composite
pH TCLP	Regulatory Level*				
pH, Step 1 TCLP	-	8.61	8.97	9.21	9.14
pH, Step 2 TCLP	-	2.02	1.9	1.88	2.1
pH, TCLP Leachate	-	5.06	4.99	5.34	5.81

Legend

All concentrations in su (standard units)

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP pH

RCH-5H-TESTPIT-5-	RCH-5H-TESTPIT-6-
WC-COMP	WC-COMP
05/22/13	05/17/13
JB37663-5A	JB37351-5A
Soil	Soil
Composite	Composite

9.43	9.1
1.85	1.81
5.18	5.39

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

TRC Sample ID/Depth	RCH-5H-TESTPIT-1- WC-COMP	RCH-5H-TESTPIT-2- WC-COMP	RCH-5H-TESTPIT-3- WC-COMP	RCH-5H-TESTPIT-4- WC-COMP
Date Sampled	04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.	JB32956-4/4A	JB33021-5/5A	JB38272-5/5A	JB37946-5/5A
Matrix	Soil	Soil	Soil	Soil
Depth Interval	Composite	Composite	Composite	Composite

RCRA CHARACTERISTICS	Regulatory Level*				
Cyanide Reactivity (mg/kg)	250	ND (11)	ND (11)	ND (12)	ND (11)
Sulfide Reactivity (mg/kg)	500	ND (110)	ND (110)	ND (120)	ND (110)
Corrosivity as pH (su)	<2 or >12.5	8.38 NC	9.48 NC	8.63 NC	7.35 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200	>200	>200	>200
Paint Filter (ml/100g)	NC	ND (0.50)	b ND (0.50)	b ND (0.50)	b ND (0.50)
Moisture, Percent (%)	NC	9.6	14.9	14.9	14.9
Total Organic Halides (mg/kg)	NC	NA	NA	NA	NA
Total Sulfur (mg/kg)	NC	NA	NA	NA	NA

* United States Environmental Protection Agency
 (USEPA) Maximum Concentration of Contaminants for
 Toxicity Characteristics
 NC - No criterion
 NA - Not Analyzed
 ND (11) = Not Detected above (Method Detection Limit)
 b - No free liquids.

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

	RCH-5H-TESTPIT-5-	RCH-5H-TESTPIT-6-
TRC Sample ID/Depth	WC-COMP	WC-COMP
Date Sampled	05/22/13	05/17/13
Lab Sample No.	JB37663-5/5A	JB37351-5/5A
Matrix	Soil	Soil
Depth Interval	Composite	Composite

RCRA CHARACTERISTICS	Regulatory Level*			
Cyanide Reactivity (mg/kg)	250	ND (14)		ND (12)
Sulfide Reactivity (mg/kg)	500	ND (140)		ND (120)
Corrosivity as pH (su)	<2 or >12.5	9.45 NC		9.04 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200		>200
Paint Filter (ml/100g)	NC	ND (0.50)	b	ND (0.50)
Moisture, Percent (%)	NC	14.9		14.9
Total Organic Halides (mg/kg)	NC	NA		NA
Total Sulfur (mg/kg)	NC	NA		NA

* United States Environmental Protection Agency
 (USEPA) Maximum Concentration of Contaminants for
 Toxicity Characteristics
 NC - No criterion
 NA - Not Analyzed
 ND (11) = Not Detected above (Method Detection Limit)
 b - No free liquids.

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

	RCH-5H-TESTPIT-1-WC	RCH-5H-TESTPIT-2-WC	RCH-5H-TESTPIT-3-WC	RCH-5H-TESTPIT-4-WC
TRC Sample No.:	COMP	COMP	COMP	COMP
Date Sampled:	04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.:	JB32956-4A	JB33021-5A	JB38272-5A	JB37946-5A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
2-Methylphenol	200	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)	ND (0.0093)	ND (0.0093)	ND (0.0093)
Pentachlorophenol	100	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)	ND (0.0036)	ND (0.0036)	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)	ND (0.0043)	ND (0.0043)	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)	ND (0.0034)	ND (0.0034)	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)	ND (0.0051)	ND (0.0051)	ND (0.0051)
Hexachloroethane	3	ND (0.0055)	ND (0.0055)	ND (0.0055)	ND (0.0055)
Nitrobenzene	2	ND (0.0042)	ND (0.0042)	ND (0.0042)	ND (0.0042)
Pyridine	5	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

	RCH-5H-TESTPIT-5-WC	RCH-5H-TESTPIT-6-WC
TRC Sample No.:	COMP	COMP
Date Sampled:	05/22/13	05/17/13
Lab Sample No.:	JB37663-5A	JB37351-5A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result
2-Methylphenol	200	ND (0.010)	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)	ND (0.0093)
Pentachlorophenol	100	ND (0.014)	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)	ND (0.0051)
Hexachloroethane	3	ND (0.0055)	ND (0.0055)
Nitrobenzene	2	ND (0.0042)	ND (0.0042)
Pyridine	5	ND (0.0032)	ND (0.0032)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-5 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					RCH-5H-TESTPIT-1-WC-COMP	RCH-5-TESTPIT-2-WC-COMP
Sample ID/Depth						
Lab Sample ID					JB32956-4	JB33021-5
Sampling Date					4/1/2013	4/2/2013
Matrix					Soil	Soil
Units					mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0097)	ND (0.011)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.036)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.037)	ND (0.041)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.030)	ND (0.033)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.051)	ND (0.057)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.053)	ND (0.059)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.039)	ND (0.043)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0098)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.032)	ND (0.035)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.020)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.036)	ND (0.040)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.037)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.040)	ND (0.045)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0080)	ND (0.0089)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.039)	ND (0.043)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.013)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.032)	ND (0.035)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0095)	ND (0.011)
4-Methylphenol	NC	NC	NC	NC	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.014)
4-Nitrophenol	NC	NC	7	0.3	ND (0.053)	ND (0.059)
Acenaphthene	20	1,000	20	98	ND (0.0092)	ND (0.010)
Acenaphthylene	100	1,000	NC	107	0.0300	J ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.0056)	ND (0.0062)
Anthracene	100	1,000	NC	1,000	0.0161	J ND (0.012)
Atrazine	NC	NC	NC	NC	ND (0.0062)	ND (0.0069)
Benzaldehyde	NC	NC	NC	NC	ND (0.0073)	ND (0.0081)
Benzo[a]anthracene	1	11	NC	1	0.046	ND (0.011)
Benzo[a]pyrene	1	1	2.6	22	0.061	ND (0.011)
Benzo[b]fluoranthene	1	11	NC	2	0.073	ND (0.012)
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.044	ND (0.013)
Benzo[k]fluoranthene	1	110	NC	2	0.037	ND (0.013)
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0095)	ND (0.011)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.0094)	ND (0.010)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.028)	ND (0.031)
Caprolactam	NC	NC	NC	NC	ND (0.018)	ND (0.020)
Carbazole	NC	NC	NC	NC	ND (0.010)	ND (0.011)
Chrysene	1	110	NC	1	ND (0.015)	ND (0.016)
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.0467	ND (0.012)
Dibenzofuran	7	1,000	NC	210	ND (0.011)	ND (0.012)
Diethyl phthalate	NC	NC	100	7	ND (0.0094)	ND (0.010)
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	0.0499	J ND (0.012)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.0070)	ND (0.0078)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.015)	ND (0.017)
Fluoranthene	100	1,000	NC	1,000	0.069	ND (0.015)
Fluorene	30	1,000	30	386	ND (0.010)	ND (0.012)
Hexachlorobenzene	0.33	12	NC	3	ND (0.010)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0088)	ND (0.0098)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.032)	ND (0.036)
Hexachloroethane	NC	NC	NC	NC	ND (0.0088)	ND (0.0098)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.045	ND (0.012)
Isophorone	NC	NC	NC	4	ND (0.0085)	ND (0.0094)
Naphthalene	12	1,000	NC	12	ND (0.0086)	ND (0.0096)
Nitrobenzene	NC	140	40	0.17	ND (0.0091)	ND (0.010)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0077)	ND (0.0086)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.021)
Pentachlorophenol	1	55	0.8	1	ND (0.054)	ND (0.060)
Phenanthrene	100	1,000	NC	1,000	0.043	ND (0.016)
Phenol	0.33	1,000	30	0.33	ND (0.033)	ND (0.037)
Pyrene	100	1,000	NC	1,000	0.05	ND (0.013)
Total SVOCs	NC	NC	NC	NC	0.61	ND

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

ND (0.0098) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

RCH-5 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-5H-ENV-8-WC/1	RCH-5H-ENV-8-WC/2	RCH-5H-ENV-8-WC/3	RCH-5H-ENV-8-WC/4
Lab Sample ID					JB16823-1	JB16823-2	JB16823-3	JB16823-4
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	33.9	21.3	ND (1.8)	ND (1.8)

Notes:
 NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-5H-ENV-8-WC/5	RCH-5H-ENV-8-WC/6	RCH-5H-ENV-8-WC/7	RCH-5H-ENV-8-WC/8
Lab Sample ID					JB16823-5	JB16823-6	JB16823-7	JB16823-8
Sampling Date					9/19/2012	9/19/2012	9/19/2012	9/19/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (1.9)	ND (1.9)	ND (2.0)	ND (1.9)

Notes:
 NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-5H-TESTPIT-1-WC/1	RCH-5H-TESTPIT-1-WC/2	RCH-5H-TESTPIT-1-WC/3	RCH-5H-TESTPIT-1-WC-COMP
Lab Sample ID					JB32956-1	JB32956-2	JB32956-3	JB32956-4
Sampling Date					4/1/2013	4/1/2013	4/1/2013	4/1/2013
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	56.3	61.7	53.4	39.5

Notes:

- NC - No Criterion
- ND (2.4) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- TPHC - Total Petroleum Hydrocarbons

RCH-5 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-5-TESTPIT-2-WC-COMP	RCH-5-TESTPIT-2-WC/2	RCH-5-TESTPIT-2-WC/4	RCH-5-TESTPIT-2-WC/6
Lab Sample ID					JB33021-5	JB33021-1	JB33021-2	JB33021-3
Sampling Date					4/2/2013	4/2/2013	4/2/2013	4/2/2013
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	ND (2.7)	ND (2.5)	ND (2.6)	ND (2.7)

Notes:

- NC - No Criterion
- ND (2.4) - Not Detected (Method Detection Limit)
- SCO - Soil Cleanup Objective
- TPHC - Total Petroleum Hydrocarbons

RCH-5 WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID/Depth					RCH-5-TESTPIT-2-WC/8
Lab Sample ID					JB33021-4
Sampling Date					4/2/2013
Matrix					Soil
Units					mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
TPHC	NC	NC	NC	NC	155

Notes:
 NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

	RCH-5H-TESTPIT-1-	RCH-5H-TESTPIT-2-	RCH-5H-TESTPIT-3-	RCH-5H-TESTPIT-4-
TRC Sample No.:	WC-COMP	WC-COMP	WC-COMP	WC-COMP
Date Sampled:	04/01/13	04/02/13	05/29/13	05/24/13
Lab Sample No.:	JB32956-4A	JB33021-5A	JB38272-5A	JB37946-5A
Laboratory:	Accutest	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil	Soil

VOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result	Result
Benzene	0.5	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0012)
2-Butanone (MEK)	200.0	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)
Carbon tetrachloride	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Chlorobenzene	100.0	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Chloroform	6.0	0.0014	J ND (0.0010)	J 0.0022	J ND (0.0010)
1,4-Dichlorobenzene	7.5	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)
1,2-Dichloroethane	0.5	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
1,1-Dichloroethene	0.7	ND (0.00096)	ND (0.00096)	ND (0.00096)	ND (0.00096)
Tetrachloroethene	0.7	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0014)
Trichloroethene	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0011)
Vinyl chloride	0.2	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 J - Value is estimated

RCH-5 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

	RCH-5H-TESTPIT-5-	RCH-5H-TESTPIT-6-
TRC Sample No.:	WC-COMP	WC-COMP
Date Sampled:	05/22/13	05/17/13
Lab Sample No.:	JB37663-5A	JB37351-5A
Laboratory:	Accutest	Accutest
Matrix:	Soil	Soil

VOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result
Benzene	0.5	ND (0.0012)	ND (0.0012)
2-Butanone (MEK)	200.0	ND (0.012)	ND (0.012)
Carbon tetrachloride	0.5	ND (0.0011)	ND (0.0011)
Chlorobenzene	100.0	ND (0.0011)	ND (0.0011)
Chloroform	6.0	ND (0.0010)	ND (0.0010)
1,4-Dichlorobenzene	7.5	ND (0.0015)	ND (0.0015)
1,2-Dichloroethane	0.5	ND (0.0013)	ND (0.0013)
1,1-Dichloroethene	0.7	ND (0.00096)	ND (0.00096)
Tetrachloroethene	0.7	ND (0.0014)	ND (0.0014)
Trichloroethene	0.5	ND (0.0011)	ND (0.0011)
Vinyl chloride	0.2	ND (0.0010)	ND (0.0010)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 J - Value is estimated

RCH-5 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID/Depth	RCH-5H-TESTPIT-1-WC/3	RCH-5H-TESTPIT-2-WC/6
					Lab Sample ID	4/1/2013	4/2/2013
					Sampling Date	JB32956-3	JB33021-3
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00012)	ND (0.00012)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00014)	ND (0.00015)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00015)	ND (0.00015)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00028)	ND (0.00029)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00018)	ND (0.00018)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00015)	ND (0.00015)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.00097)	ND (0.00099)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00014)	ND (0.00014)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00021)	ND (0.00021)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00015)	ND (0.00015)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00020)	ND (0.00021)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)	ND (0.00020)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.0065)	ND (0.0066)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0026)	ND (0.0027)	
2-Hexanone	NC	NC	NC	NC	ND (0.00068)	ND (0.00069)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00082)	ND (0.00084)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0018)	ND (0.0019)	
Benzene	0.06	89	70	0.06	ND (0.00013)	ND (0.00013)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00029)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00011)	ND (0.00012)	
Bromoform	NC	NC	NC	NC	ND (0.00016)	ND (0.00017)	
Bromomethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00030)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00013)	ND (0.00013)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00015)	ND (0.00015)	
Chlorobenzene	1	1,000	40	1	ND (0.00012)	ND (0.00012)	
Chloroethane	NC	NC	NC	1.9	ND (0.00025)	ND (0.00025)	
Chloroform	0.37	700	12	0.37	ND (0.00090)	ND (0.00092)	
Chloromethane	NC	NC	NC	NC	ND (0.00020)	ND (0.00021)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00020)	ND (0.00020)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00015)	ND (0.00015)	
Cyclohexane	NC	NC	NC	NC	ND (0.00014)	ND (0.00014)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00018)	ND (0.00018)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00025)	
Ethylbenzene	1	780	NC	1	ND (0.00029)	ND (0.00029)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00047)	ND (0.00048)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00081)	ND (0.00083)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00019)	ND (0.00019)	
Methyl acetate	NC	NC	NC	NC	ND (0.0028)	ND (0.0029)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00018)	ND (0.00026)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.0014)	ND (0.00019)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00026)	ND (0.0014)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00015)	ND (0.00015)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00010)	ND (0.00010)	
tert-Butylbenzene	5.9	1,000	NC	6	ND (0.0048)	ND (0.0049)	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00019)	ND (0.00019)	
Toluene	0.7	1,000	36	0.7	0.00076	J	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00026)	ND (0.00026)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00019)	ND (0.00019)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00033)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00016)	ND (0.00016)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00015)	ND (0.00015)	
Total VOCs	NC	NC	NC	NC	0.001	ND	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA - Not Analyzed

ND (0.00029) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES
RCH-6 TRACT WASTE CHARACTERIZATION

					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC	RCH-6-ARC/MT(7+9) COMP WC
Sample ID/Depth					JB1690-1	JB1510-4	JB1768-1	JB1510-1
Lab Sample ID					3/14/2012	3/13/2012	3/15/2012	3/7/2012
Sampling Date					Soil	Soil	Soil	Soil
Matrix					mg/kg	mg/kg	mg/kg	mg/kg
Units								
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	0.0063	0.0612	ND (0.00034)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	0.0039	0.0301	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	0.0011	0.0016	ND (0.00049)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00038)	ND (0.00033)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00057)	ND (0.00049)	ND (0.00050)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00050)	ND (0.00042)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00054)	ND (0.00046)	ND (0.00047)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00039)	ND (0.00033)	ND (0.00034)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00045)	ND (0.00038)	ND (0.00039)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00059)	ND (0.00050)	ND (0.00052)
Endosulfan-I	2.4	920	NC	102	ND (0.00033)	ND (0.00037)	ND (0.00032)	ND (0.00033)
Endosulfan-II	2.4	920	NC	102	ND (0.00045)	ND (0.00050)	ND (0.00043)	ND (0.00044)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00069)	ND (0.00059)	ND (0.00061)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00039)	ND (0.00033)	ND (0.00034)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00072)	ND (0.00062)	ND (0.00064)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00050)	ND (0.00042)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00035)	ND (0.00030)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00047)	ND (0.00040)	ND (0.00041)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00038)	ND (0.00032)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00054)	ND (0.00046)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.00086)	ND (0.00096)	ND (0.00082)	ND (0.00085)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0055)	ND (0.0047)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00066)	ND (0.00057)	ND (0.00056)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0017)	ND (0.0014)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0013)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00077)	ND (0.00067)	ND (0.00066)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0045)	ND (0.0039)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0036)	ND (0.0031)	ND (0.0030)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.60)	ND (0.52)	ND (0.51)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.31)	ND (0.27)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0013)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.011)	ND (0.011)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective
ND (0.00039) - Not Detected (Method Detection Limit)
b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for confirmation only.

SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES
RCH-6 TRACT WASTE CHARACTERIZATION

					RCH-6-ARC-MT (11+12) COMP WC
					Lab Sample ID
					Sampling Date
					Matrix
					Units
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.004
4,4'-DDE	0.0033	120	0.0033	17	0.0022
4,4'-DDT	0.0033	94	0.0033	136	0.0024
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00046)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)
Endosulfan-I	2.4	920	NC	102	ND (0.00034)
Endosulfan-II	2.4	920	NC	102	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.00088)
2,4-D	NC	NC	NC	0.5	ND (0.00050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.00015)
Dalapon	NC	NC	NC	NC	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00070)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

ND (0.00039) - Not Detected (Method Detection Limit)

b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for c

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	305	299	348	186	
Solids, Percent	NC	NC	NC	NC	69.7	81.3	52.2	53.2	
pH	NC	NC	NC	NC	7.67	7.84	6.83	7.32	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	262	217	298	195	
Solids, Percent	NC	NC	NC	NC	78.5	53.6	85.6	52.9	
pH	NC	NC	NC	NC	6.7	7.17	7.92	7.37	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

		Sample ID		RCH-6-ENV-5W/2	RCH-6-ENV-5W/6	
		Lab Sample ID		JA81299-3	JA81299-4	
		Sampling Date		7/19/2011	7/19/2011	
		Matrix		Soil	Soil	
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Redox Potential Vs H2	NC	NC	NC	NC	310	104
Solids, Percent	NC	NC	NC	NC	97	47.4
pH	NC	NC	NC	NC	7.37	7.84

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6		
		Lab Sample ID	JA81299-5/5R	JA81439-3	JA81299-6/6R	JA81299-7/7R		
		Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	2820	7250	7160	6300
Antimony	NC	NC	12	NC	13.4	<2.4	<3.8	<3.7
Arsenic	13	16	13	16	26.3	<2.4	20.5	12.3
Barium	350	10,000	433	820	442	52.2	294	239
Beryllium	7.2	2,700	10	47	<0.28	0.32	0.42	0.72
Cadmium	2.5	60	4	7.5	2.2	<0.61	3	<0.92
Calcium	NC	NC	10000	NC	8710	807	4450	5470
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	28.3	10.6	34.9	17.2
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	1.9(1.4)	<0.49	1.9(<0.77)	<0.75(<0.75)
Cobalt	NC	NC	20	NC	8.3	<6.1	<9.6	<9.2
Copper	50	10,000	50	1,720	757	8.7	864	58
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	89400	10900	34300	36300
Lead	63	3,900	63	450	3170	4.5	596	433
Magnesium	NC	NC	NC	NC	2720	1660	1940	<920
Manganese	1,600	10,000	1,600	2,000	390	137	310	568
Mercury (Total)	0.18	5.7	0.18	0.73	7.6	<0.041	0.62	0.87
Nickel	30	10,000	30	130	33.1	7.7	45.7	18.6
Potassium	NC	NC	NC	NC	<1400	<1200	<1900	<1800
Selenium	3.9	6,800	3.9	4	<5.7	<2.4	<3.8	<3.7
Silver	2	6,800	2	8.3	2	<0.61	<0.96	<0.92
Sodium	NC	NC	NC	NC	<1400	<1200	3130	<1800
Thallium	NC	NC	5	NC	<2.8	<1.2	<1.9	<1.8
Vanadium	NC	NC	39	NC	21.7	16.1	44.6	26.4
Zinc	109	10,000	109	2,480	2010	17.8	1870	226

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8		
		Lab Sample ID	JA81439-1	JA81439-2	JA81299-1/1R	JA81299-2/2R		
		Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	17500	3170	6920	3500
Antimony	NC	NC	12	NC	3.1	5	2.5	4.7
Arsenic	13	16	13	16	13.5	19.2	16.1	25.1
Barium	350	10,000	433	820	141	293	309	1030
Beryllium	7.2	2,700	10	47	1.3	0.45	0.47	0.39
Cadmium	2.5	60	4	7.5	<0.61	<0.91	0.77	1
Calcium	NC	NC	10000	NC	1320	18900	4310	8730
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	38.8	18.5	26.7	61.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.51	1.1	<0.47(0.56)	<0.76(<0.76)
Cobalt	NC	NC	20	NC	14.2	<9.1	7.3	<9.8
Copper	50	10,000	50	1,720	30	135	187	214
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	62000	26300	30300	13900
Lead	63	3,900	63	450	333	719	740	2630
Magnesium	NC	NC	NC	NC	8240	1810	2160	<980
Manganese	1,600	10,000	1,600	2,000	518	237	282	211
Mercury (Total)	0.18	5.7	0.18	0.73	0.89	2.4	0.26	3.2
Nickel	30	10,000	30	130	41.6	16.6	27.2	16.9
Potassium	NC	NC	NC	NC	3160	<1800	1310	<2000
Selenium	3.9	6,800	3.9	4	3.5	<3.6	<2.4	<3.9
Silver	2	6,800	2	8.3	<0.61	0.94	<0.59	1.5
Sodium	NC	NC	NC	NC	<1200	1900	<1200	<2000
Thallium	NC	NC	5	NC	<1.2	<1.8	<1.2	<2.0
Vanadium	NC	NC	39	NC	33.4	14.1	56.8	26
Zinc	109	10,000	109	2,480	83.5	399	388	880

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID		RCH-6-ENV-5W/2	RCH-6-ENV-5W/6	
		Lab Sample ID		JA81299-3/3R	JA81299-4/4R	
		Sampling Date		7/19/2011	7/19/2011	
		Matrix		Soil	Soil	
		Units		mg/kg	mg/kg	
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
Aluminum	NC	NC	10000	NC	4200	11,000
Antimony	NC	NC	12	NC	<2.1	<4.4
Arsenic	13	16	13	16	12.4	55.6
Barium	350	10,000	433	820	224	869
Beryllium	7.2	2,700	10	47	0.44	0.95
Cadmium	2.5	60	4	7.5	0.54	<1.1
Calcium	NC	NC	10000	NC	1930	17,100
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	12.6	26.6
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.41(0.67)	<0.84(<0.84)
Cobalt	NC	NC	20	NC	<5.4	<11
Copper	50	10,000	50	1,720	225	170
Cyanide (Total)	27	10,000	NC	40	NA	NA
Iron	NC	NC	NC	NC	5820	20500
Lead	63	3,900	63	450	1070	1010
Magnesium	NC	NC	NC	NC	<540	2050
Manganese	1,600	10,000	1,600	2,000	118	250
Mercury (Total)	0.18	5.7	0.18	0.73	0.71	1.5
Nickel	30	10,000	30	130	14.9	26
Potassium	NC	NC	NC	NC	<1100	<2200
Selenium	3.9	6,800	3.9	4	<2.1	<4.4
Silver	2	6,800	2	8.3	<0.54	2.9
Sodium	NC	NC	NC	NC	<1100	2210
Thallium	NC	NC	5	NC	<1.1	<2.2
Vanadium	NC	NC	39	NC	17.3	30.8
Zinc	109	10,000	109	2,480	197	814

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.0093)	ND (0.015)	ND (0.014)	
Aroclor 1221	NC	NC	NC	NC	ND (0.025)	ND (0.022)	ND (0.034)	ND (0.033)	
Aroclor 1232	NC	NC	NC	NC	ND (0.021)	ND (0.018)	ND (0.029)	ND (0.028)	
Aroclor 1242	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.018)	ND (0.018)	
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.017)	ND (0.017)	
Aroclor 1254	NC	NC	NC	NC	ND (0.020)	ND (0.017)	ND (0.026)	ND (0.026)	
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.018)	ND (0.018)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.017)	ND (0.016)	
Aroclor 1268	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.018)	ND (0.018)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	RCH-6-ENV-3/4	ND (0.014)	ND (0.0089)	ND (0.014)	
Aroclor 1221	NC	NC	NC	NC	ND (0.023)	ND (0.032)	ND (0.021)	ND (0.033)	
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.027)	ND (0.017)	ND (0.028)	
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.017)	ND (0.011)	ND (0.018)	
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.010)	ND (0.017)	
Aroclor 1254	NC	NC	NC	NC	ND (0.018)	ND (0.025)	ND (0.016)	ND (0.026)	
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.018)	ND (0.011)	ND (0.018)	
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.011)	ND (0.018)	
Aroclor 1268	NC	NC	NC	NC	ND (0.012)	ND (0.017)	ND (0.010)	ND (0.016)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-6-ENV-5W/2	RCH-6-ENV-5W/6
					Lab Sample ID	JA81299-3	JA81299-4
					Sampling Date	7/19/2011	7/19/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0079)	ND (0.016)	
Aroclor 1221	NC	NC	NC	NC	ND (0.018)	ND (0.037)	
Aroclor 1232	NC	NC	NC	NC	ND (0.015)	ND (0.031)	
Aroclor 1242	NC	NC	NC	NC	ND (0.0096)	ND (0.020)	
Aroclor 1248	NC	NC	NC	NC	ND (0.0092)	ND (0.019)	
Aroclor 1254	NC	NC	NC	NC	ND (0.014)	ND (0.029)	
Aroclor 1260	NC	NC	NC	NC	ND (0.0099)	ND (0.020)	
Aroclor 1262	NC	NC	NC	NC	ND (0.0089)	ND (0.018)	
Aroclor 1268	NC	NC	NC	NC	ND (0.0096)	ND (0.020)	
Total PCBs	0.1	25	1	3.2	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6	
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7	
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011	
					Matrix	Soil	Soil	Soil	Soil	
					Units	mg/kg	mg/kg	mg/kg	mg/kg	
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result		Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00043)	ND (0.00037)	0.0549	ND (0.00057)		
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00050)	ND (0.00042)	0.032	ND (0.00065)		
4,4'-DDT	0.0033	94	0.0033	136	0.0019	ND (0.00052)	0.0644	ND (0.00081)		
Aldrin	0.005	1.4	0.14	0.19	ND (0.00042)	ND (0.00036)	ND (0.00056)	ND (0.00055)		
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00063)	ND (0.00054)	ND (0.00084)	ND (0.00083)		
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00055)	ND (0.00047)	ND (0.00073)	ND (0.00072)		
beta-BHC	0.036	14	0.6	0.09	ND (0.00059)	ND (0.00050)	ND (0.00079)	ND (0.00078)		
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA		
gamma-Chlordane	NC	NC	NC	14	ND (0.00043)	ND (0.00037)	ND (0.00058)	ND (0.00057)		
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00049)	ND (0.00042)	ND (0.00066)	ND (0.00065)		
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00065)	ND (0.00055)	ND (0.00087)	ND (0.00086)		
Endosulfan I	2.4	920	NC	102	ND (0.00041)	ND (0.00035)	ND (0.00055)	ND (0.00054)		
Endosulfan II	2.4	920	NC	102	ND (0.00056)	ND (0.00047)	ND (0.00074)	ND (0.00073)		
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00076)	ND (0.00065)	ND (0.0010)	ND (0.0010)		
Endrin	0.014	410	0.014	0.06	ND (0.00043)	ND (0.00037)	ND (0.00058)	ND (0.00057)		
Endrin aldehyde	NC	NC	NC	NC	ND (0.00080)	ND (0.00068)	ND (0.0011)	ND (0.0010)		
Endrin ketone	NC	NC	NC	NC	0.0028	ND (0.00046)	0.0084	ND (0.00072)		
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00038)	ND (0.00033)	ND (0.00051)	ND (0.00050)		
Heptachlor	0.042	29	0.14	0.38	ND (0.00052)	ND (0.00044)	ND (0.00069)	ND (0.00068)		
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00042)	ND (0.00035)	ND (0.00056)	ND (0.00055)		
Methoxychlor	NC	NC	1.2	900	ND (0.00060)	ND (0.00050)	ND (0.00080)	ND (0.00078)		
Toxaphene	NC	NC	NC	NC	ND (0.011)	ND (0.0090)	ND (0.014)	ND (0.014)		
2,4-D	NC	NC	NC	0.5	ND (0.0059)	ND (0.0051)	ND (0.0079)	ND (0.0078)		
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00072)	ND (0.00062)	ND (0.00096)	ND (0.00094)		
2,4,5-T	NC	NC	NC	1.9	ND (0.0018)	ND (0.0015)	ND (0.0024)	ND (0.0024)		
Dalapon	NC	NC	NC	NC	ND (0.0014)	ND (0.0012)	ND (0.0019)	ND (0.0018)		
Dicamba	NC	NC	NC	NC	ND (0.00084)	ND (0.00072)	ND (0.0011)	ND (0.0011)		
Dichloroprop	NC	NC	NC	NC	ND (0.0048)	ND (0.0041)	ND (0.0065)	ND (0.0063)		
Dinoseb	NC	NC	NC	NC	ND (0.0039)	ND (0.0033)	ND (0.0052)	ND (0.0051)		
MCPA	NC	NC	NC	NC	ND (0.65)	ND (0.56)	ND (0.86)	ND (0.85)		
MCPP	NC	NC	NC	NC	ND (0.33)	ND (0.29)	ND (0.45)	ND (0.44)		
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0014)	ND (0.0012)	ND (0.0019)	ND (0.0018)		
2,4-DB	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.019)	ND (0.018)		

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.00034) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00038)	ND (0.00055)	0.0142	ND (0.00057)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00044)	ND (0.00063)	0.0127	ND (0.00066)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00055)	ND (0.00079)	0.002	ND (0.00082)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00037)	ND (0.00054)	ND (0.00034)	ND (0.00055)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00056)	ND (0.00080)	ND (0.00051)	ND (0.00083)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00049)	ND (0.00070)	ND (0.00045)	ND (0.00072)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00053)	ND (0.00075)	ND (0.00048)	ND (0.00078)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00038)	ND (0.00055)	ND (0.00035)	ND (0.00057)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00044)	ND (0.00063)	ND (0.00040)	ND (0.00065)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00058)	ND (0.00083)	ND (0.00053)	ND (0.00086)	
Endosulfan I	2.4	920	NC	102	ND (0.00036)	ND (0.00052)	ND (0.00033)	ND (0.00054)	
Endosulfan II	2.4	920	NC	102	ND (0.00049)	ND (0.00071)	ND (0.00045)	ND (0.00073)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00068)	ND (0.00097)	ND (0.00062)	ND (0.0010)	
Endrin	0.014	410	0.014	0.06	ND (0.00038)	ND (0.00055)	ND (0.00035)	ND (0.00057)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00071)	ND (0.0010)	ND (0.00065)	ND (0.0011)	
Endrin ketone	NC	NC	NC	NC	ND (0.00049)	ND (0.00070)	ND (0.00045)	ND (0.00072)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00034)	ND (0.00049)	ND (0.00031)	ND (0.00051)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00046)	ND (0.00066)	ND (0.00042)	ND (0.00068)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00037)	ND (0.00053)	ND (0.00034)	ND (0.00055)	
Methoxychlor	NC	NC	1.2	900	ND (0.00053)	ND (0.00076)	ND (0.00049)	ND (0.00079)	
Toxaphene	NC	NC	NC	NC	ND (0.00094)	ND (0.0014)	ND (0.00087)	ND (0.0014)	
2,4-D	NC	NC	NC	0.5	ND (0.0053)	ND (0.0077)	ND (0.0048)	ND (0.0078)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00064)	ND (0.00093)	ND (0.00058)	ND (0.00095)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0023)	ND (0.0015)	ND (0.0024)	
Dalapon	NC	NC	NC	NC	ND (0.0013)	ND (0.0018)	ND (0.0011)	ND (0.0019)	
Dicamba	NC	NC	NC	NC	ND (0.00074)	ND (0.0011)	ND (0.00068)	ND (0.0011)	
Dichloroprop	NC	NC	NC	NC	ND (0.0043)	ND (0.0063)	ND (0.0039)	ND (0.0064)	
Dinoseb	NC	NC	NC	NC	ND (0.0034)	ND (0.0050)	ND (0.0031)	ND (0.0051)	
MCPA	NC	NC	NC	NC	ND (0.58)	ND (0.84)	ND (0.53)	ND (0.85)	
MCPP	NC	NC	NC	NC	ND (0.30)	ND (0.43)	ND (0.27)	ND (0.44)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0018)	ND (0.0011)	ND (0.0018)	
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.018)	ND (0.011)	ND (0.018)	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 NA - Not Analyzed
 ND (0.00034) - Not Detected (Method Detection Limit)
 Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-6-ENV-5W/2	RCH-6-ENV-5W/6
					Lab Sample ID	JA81299-3	JA81299-4
					Sampling Date	7/19/2011	7/19/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00031)		ND (0.00064)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00036)		ND (0.00073)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00044)		ND (0.00091)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00030)		ND (0.00062)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00045)		ND (0.00093)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00039)		ND (0.00081)
beta-BHC	0.036	14	0.6	0.09	ND (0.00043)		ND (0.00087)
Chlordane	NC	NC	NC	NC	NA		NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00031)		ND (0.00063)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00035)		ND (0.00072)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00047)		ND (0.00096)
Endosulfan I	2.4	920	NC	102	ND (0.00029)		ND (0.00060)
Endosulfan II	2.4	920	NC	102	ND (0.00040)		ND (0.00082)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00055)		ND (0.0011)
Endrin	0.014	410	0.014	0.06	ND (0.00031)		ND (0.00063)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00057)		ND (0.0012)
Endrin ketone	NC	NC	NC	NC	ND (0.00039)		ND (0.00081)
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00028)		ND (0.00057)
Heptachlor	0.042	29	0.14	0.38	ND (0.00037)		ND (0.00076)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00030)		ND (0.00061)
Methoxychlor	NC	NC	1.2	900	ND (0.00043)		ND (0.00088)
Toxaphene	NC	NC	NC	NC	ND (0.0076)		ND (0.016)
2,4-D	NC	NC	NC	0.5	ND (0.0043)		ND (0.015)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00052)		ND (0.0018)
2,4,5-T	NC	NC	NC	1.9	ND (0.0013)		ND (0.0046)
Dalapon	NC	NC	NC	NC	ND (0.0010)		ND (0.0036)
Dicamba	NC	NC	NC	NC	ND (0.00060)		ND (0.0022)
Dichloroprop	NC	NC	NC	NC	ND (0.0035)		ND (0.012)
Dinoseb	NC	NC	NC	NC	ND (0.0028)		ND (0.0099)
MCPA	NC	NC	NC	NC	ND (0.47)		ND (1.7)
MCPP	NC	NC	NC	NC	ND (0.24)		ND (0.86)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0010)		ND (0.0036)
2,4-DB	NC	NC	NC	NC	ND (0.010)		ND (0.036)

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.00034) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
Result					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.017)	ND (0.016)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.042)	ND (0.036)	ND (0.056)	ND (0.055)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.048)	ND (0.040)	ND (0.063)	ND (0.062)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.039)	ND (0.033)	ND (0.051)	ND (0.050)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.066)	ND (0.056)	ND (0.088)	ND (0.086)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.069)	ND (0.058)	ND (0.092)	ND (0.090)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.050)	ND (0.042)	ND (0.067)	ND (0.066)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.015)	ND (0.024)	ND (0.023)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.016)	ND (0.013)	ND (0.021)	ND (0.020)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.017)	ND (0.017)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.041)	ND (0.035)	ND (0.055)	ND (0.054)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.023)	ND (0.019)	0.0757 J	ND (0.030)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.047)	ND (0.040)	ND (0.062)	ND (0.061)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.018)	ND (0.015)	ND (0.024)	ND (0.024)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.043)	ND (0.037)	ND (0.058)	ND (0.057)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.052)	ND (0.052)	ND (0.070)	ND (0.068)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.010)	ND (0.0088)	ND (0.014)	ND (0.014)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.016)	ND (0.014)	ND (0.022)	ND (0.021)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.042)	ND (0.067)	ND (0.066)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.020)	ND (0.019)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.035)	ND (0.055)	ND (0.054)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.013)	ND (0.011)	ND (0.018)	ND (0.017)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.016)	ND (0.016)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.016)	ND (0.014)	ND (0.021)	ND (0.021)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.069)	ND (0.059)	ND (0.093)	ND (0.091)	
Acenaphthene	20	1,000	20	98	0.0975	ND (0.010)	0.3910	0.2140	
Acenaphthylene	100	1,000	NC	107	0.0259	J ND (0.011)	0.1220	ND (0.017)	
Acetophenone	NC	NC	NC	NC	ND (0.0072)	ND (0.0061)	0.0532	J ND (0.0095)	
Anthracene	100	1,000	NC	1,000	0.5180	ND (0.012)	0.3620	0.4440	
Atrazine	NC	NC	NC	NC	ND (0.0081)	ND (0.0068)	ND (0.011)	ND (0.011)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0094)	ND (0.0080)	0.7930	ND (0.012)	
Benzofluoranthene	1	11	NC	1	1.66	ND (0.011)	1	0.497	
Benzofluorene	1	1	2.6	22	1.73	ND (0.011)	1.6	0.446	
Benzofluoranthene	1	11	NC	2	1.60	ND (0.012)	1.6	0.342	
Benzofluoranthene	100	1,000	NC	1,000	1.26	ND (0.013)	1.39	0.254	
Benzofluoranthene	1	110	NC	2	0.804	ND (0.013)	1.22	0.214	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.017)	ND (0.014)	ND (0.022)	ND (0.022)	
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.016)	ND (0.016)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.036)	ND (0.031)	ND (0.048)	ND (0.047)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.024)	ND (0.020)	ND (0.032)	ND (0.031)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.017)	ND (0.017)	
Carbazole	NC	NC	NC	NC	0.0522	J ND (0.016)	0.123	0.0674	
Chrysene	1	110	NC	1	1.56	ND (0.012)	1.46	0.4760	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.375	ND (0.012)	0.475	0.0711	
Dibenzofuran	7	1,000	NC	210	0.0395	J ND (0.010)	0.134	0.0362	
Diethyl phthalate	NC	NC	100	7	ND (0.014)	ND (0.012)	ND (0.019)	ND (0.018)	
Dimethyl phthalate	NC	NC	200	27	0.277	0.1220	0.1800	0.0550	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0091)	ND (0.0077)	ND (0.012)	ND (0.012)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.020)	ND (0.017)	ND (0.027)	ND (0.026)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0048)	ND (0.0040)	0.0307	J ND (0.0062)	
Fluoranthene	100	1,000	NC	1,000	2.33	ND (0.015)	1.63	1.02	
Fluorene	30	1,000	30	386	0.095	ND (0.011)	0.24	0.153	
Hexachlorobenzene	0.33	12	NC	3	ND (0.013)	ND (0.011)	ND (0.018)	ND (0.018)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.011)	ND (0.0097)	ND (0.015)	ND (0.015)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.042)	ND (0.035)	ND (0.056)	ND (0.055)	
Hexachloroethane	NC	NC	NC	NC	ND (0.011)	ND (0.0097)	ND (0.015)	ND (0.015)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	1.04	ND (0.012)	1.23	0.212	
Isophorone	NC	NC	NC	4	ND (0.011)	ND (0.0093)	ND (0.015)	ND (0.014)	
Naphthalene	12	1,000	NC	12	0.0492	ND (0.0095)	0.092	0.0282	
Nitrobenzene	NC	140	40	0.17	ND (0.012)	ND (0.010)	ND (0.016)	ND (0.016)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.010)	ND (0.0085)	ND (0.013)	ND (0.013)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.024)	ND (0.021)	ND (0.033)	ND (0.032)	
Pentachlorophenol	1	55	0.8	1	ND (0.070)	ND (0.059)	ND (0.094)	ND (0.092)	
Phenanthrene	100	1,000	NC	1,000	1.79	ND (0.016)	1.5200	1.4600	
Phenol	0.33	1,000	30	0.33	ND (0.043)	ND (0.036)	ND (0.057)	ND (0.056)	
Pyrene	100	1,000	NC	1,000	3.49	ND (0.013)	2.4900	1.4400	
Total SVOCs	NC	NC	NC	NC	18.8	0.12	18.4	7.2	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.010)	ND (0.017)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.037)	ND (0.055)	ND (0.034)	ND (0.056)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.042)	ND (0.062)	ND (0.039)	ND (0.063)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.034)	ND (0.050)	ND (0.031)	ND (0.051)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.058)	ND (0.086)	ND (0.054)	ND (0.087)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.061)	ND (0.089)	ND (0.056)	ND (0.091)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.044)	ND (0.065)	ND (0.041)	ND (0.066)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.016)	ND (0.023)	ND (0.015)	ND (0.024)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.014)	ND (0.020)	ND (0.013)	ND (0.021)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.010)	ND (0.017)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.037)	ND (0.054)	ND (0.034)	ND (0.055)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.020)	0.3920	ND (0.019)	ND (0.030)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.041)	ND (0.061)	ND (0.038)	ND (0.062)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.023)	ND (0.015)	ND (0.024)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.038)	ND (0.056)	ND (0.035)	ND (0.057)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.046)	0.9460	ND (0.042)	ND (0.069)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0092)	ND (0.014)	ND (0.0085)	ND (0.014)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.015)	ND (0.021)	ND (0.013)	ND (0.022)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.044)	ND (0.065)	ND (0.041)	ND (0.066)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.019)	ND (0.012)	ND (0.020)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.036)	ND (0.053)	ND (0.033)	ND (0.054)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.012)	ND (0.017)	ND (0.011)	ND (0.017)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.010)	ND (0.016)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.021)	ND (0.013)	ND (0.021)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.061)	ND (0.090)	ND (0.056)	ND (0.091)	
Acenaphthene	20	1,000	20	98	ND (0.011)	2.97	0.0243	J 0.1030	
Acenaphthylene	100	1,000	NC	107	ND (0.012)	ND (0.017)	0.0147	J 0.0462	
Acetophenone	NC	NC	NC	NC	ND (0.0064)	ND (0.0094)	ND (0.0059)	ND (0.0095)	
Anthracene	100	1,000	NC	1,000	ND (0.013)	7.03	0.0762	0.2510	
Atrazine	NC	NC	NC	NC	ND (0.0071)	ND (0.010)	ND (0.0066)	ND (0.011)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0083)	ND (0.012)	ND (0.0077)	ND (0.012)	
Benzofluoranthene	1	11	NC	1	ND (0.012)	8.5	0.2	0.326	
Benzofluorene	1	1	2.6	22	0.0424	7.7	0.205	0.567	
Benzofluoranthene	1	11	NC	2	0.0208	6.9	0.211	0.417	
Benzofluorene	100	1,000	NC	1,000	ND (0.014)	4.4	0.148	0.369	
Benzofluoranthene	1	110	NC	2	0.0552	3.8	0.138	0.334	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.015)	ND (0.021)	ND (0.013)	ND (0.022)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.011)	ND (0.016)	ND (0.010)	ND (0.016)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	273	ND (0.047)	ND (0.029)	ND (0.048)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.021)	ND (0.031)	ND (0.019)	ND (0.031)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.017)	ND (0.011)	ND (0.017)	
Carbazole	NC	NC	NC	NC	ND (0.017)	0.5270	0.0192	J 0.0225	
Chrysene	1	110	NC	1	ND (0.012)	8.71	0.2090	0.2600	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	1.5	0.048	0.112	
Dibenzofuran	7	1,000	NC	210	ND (0.011)	0.94	0.0135	J 0.0235	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.018)	ND (0.011)	ND (0.018)	
Dimethyl phthalate	NC	NC	200	27	ND (0.013)	ND (0.019)	0.0585	J 0.1180	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0081)	ND (0.012)	ND (0.0074)	ND (0.012)	
Di-n-octyl phthalate	NC	NC	NC	120	0.0918	ND (0.026)	ND (0.016)	ND (0.026)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0042)	ND (0.0062)	ND (0.0039)	ND (0.0063)	
Fluoranthene	100	1,000	NC	1,000	0.0928	16.7	0.4060	0.8670	
Fluorene	30	1,000	30	386	ND (0.012)	3.48	0.0242	J 0.0938	
Hexachlorobenzene	0.33	12	NC	3	ND (0.012)	ND (0.017)	ND (0.011)	ND (0.018)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.010)	ND (0.015)	ND (0.0093)	ND (0.015)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.037)	ND (0.054)	ND (0.034)	ND (0.055)	
Hexachloroethane	NC	NC	NC	NC	ND (0.010)	ND (0.015)	ND (0.0093)	ND (0.015)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.013)	3.55	0.127	0.312	
Isophorone	NC	NC	NC	4	ND (0.0098)	ND (0.014)	ND (0.0090)	ND (0.015)	
Naphthalene	12	1,000	NC	12	ND (0.0099)	0.39	ND (0.0091)	0.0470	
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.015)	ND (0.0096)	ND (0.016)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0089)	ND (0.013)	ND (0.0081)	ND (0.013)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.022)	ND (0.032)	ND (0.020)	ND (0.032)	
Pentachlorophenol	1	55	0.8	1	ND (0.062)	ND (0.091)	ND (0.0011)	ND (0.092)	
Phenanthrene	100	1,000	NC	1,000	ND (0.017)	25.8	0.254	0.927	
Phenol	0.33	1,000	30	0.33	ND (0.038)	ND (0.056)	ND (0.035)	ND (0.057)	
Pyrene	100	1,000	NC	1,000	0.094	20.9	0.404	0.596	
Total SVOCs	NC	NC	NC	NC	273.4	125.2	2.47	5.65	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-6-ENV-5W/2	RCH-6-ENV-5W/6
					Lab Sample ID	JA81299-3	JA81299-4
					Sampling Date	7/19/2011	7/19/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result		Result
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0090)		ND (0.063)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA		NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.030)		ND (0.21)
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.034)		ND (0.24)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.028)		ND (0.19)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.047)		ND (0.33)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.049)		ND (0.34)
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.036)		ND (0.25)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.013)		ND (0.090)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.011)		ND (0.078)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0091)		ND (0.063)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.030)		ND (0.21)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.016)		ND (0.11)
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.034)		ND (0.23)
2-Nitroaniline	NC	NC	NC	0.4	ND (0.013)		ND (0.090)
2-Nitrophenol	NC	NC	7	0.3	ND (0.031)		ND (0.22)
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.037)		ND (0.26)
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0075)		ND (0.052)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.012)		ND (0.082)
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.036)		ND (0.25)
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)		ND (0.074)
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.029)		ND (0.20)
4-Chloroaniline	NC	NC	NC	0.22	ND (0.0094)		ND (0.066)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0089)		ND (0.062)
4-Methylphenol	NC	NC	NC	NC	NA		NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.011)		ND (0.080)
4-Nitrophenol	NC	NC	7	0.3	ND (0.050)		ND (0.35)
Acenaphthene	20	1,000	20	98	0.111		ND (0.059)
Acenaphthylene	100	1,000	NC	107	0.0145	J	ND (0.066)
Acetophenone	NC	NC	NC	NC	ND (0.0052)		ND (0.036)
Anthracene	100	1,000	NC	1,000	0.4120		ND (0.072)
Atrazine	NC	NC	NC	NC	ND (0.0058)		ND (0.040)
Benzaldehyde	NC	NC	NC	NC	ND (0.0068)		ND (0.047)
Benzo[a]anthracene	1	11	NC	1	0.845		0.1650 J
Benzo[a]pyrene	1	1	2.6	22	0.962		0.1850 J
Benzo[b]fluoranthene	1	11	NC	2	0.776		0.1460 J
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.924		0.1430 J
Benzo[k]fluoranthene	1	110	NC	2	0.5		0.0971 J
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.012)		ND (0.083)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0089)		ND (0.062)
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.026)		ND (0.18)
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.017)		ND (0.12)
Caprolactam	NC	NC	NC	NC	ND (0.0093)		ND (0.065)
Carbazole	NC	NC	NC	NC	0.072		ND (0.095)
Chrysene	1	110	NC	1	0.836		0.1630 J
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.216		ND (0.070)
Dibenzofuran	7	1,000	NC	210	0.046	J	ND (0.061)
Diethyl phthalate	NC	NC	100	7	ND (0.010)		ND (0.070)
Dimethyl phthalate	NC	NC	200	27	0.1210		0.6990
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0065)		ND (0.045)
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.014)		ND (0.10)
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0034)		ND (0.024)
Fluoranthene	100	1,000	NC	1,000	1.56		0.1860 J
Fluorene	30	1,000	30	386	0.0974		ND (0.067)
Hexachlorobenzene	0.33	12	NC	3	ND (0.0096)		ND (0.067)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0082)		ND (0.057)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.030)		ND (0.21)
Hexachloroethane	NC	NC	NC	NC	ND (0.0082)		ND (0.057)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.729		0.1070 J
Isophorone	NC	NC	NC	4	ND (0.0079)		ND (0.055)
Naphthalene	12	1,000	NC	12	0.0131	J	0.1760 J
Nitrobenzene	NC	140	40	0.17	ND (0.0085)		ND (0.059)
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.010)		ND (0.050)
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.018)		ND (0.12)
Pentachlorophenol	1	55	0.8	1	ND (0.050)		ND (0.35)
Phenanthrene	100	1,000	NC	1,000	1.45		0.116 J
Phenol	0.33	1,000	30	0.33	ND (0.031)		ND (0.22)
Pyrene	100	1,000	NC	1,000	1.84		0.2490
Total SVOCs	NC	NC	NC	NC	11.5		2.3

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (3.4)	ND (2.6)	ND (5.2)	ND (5.0)	
TPH-DRO (C10-C44)	NC	NC	NC	NC	2210	30.6	736	250	

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.7)	ND (5.0)	ND (2.4)	ND (5.1)	
TPH-DRO (C10-C44)	NC	NC	NC	NC	36.7	496	163	10900	

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					Sample ID	RCH-6-ENV-5W/2	RCH-6-ENV-5W/6
					Lab Sample ID	JA81299-3	JA81299-4
					Sampling Date	7/19/2011	7/19/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	
TPH-GRO (C6-C10)	NC	NC	NC	NC	ND (2.0)	ND (5.9)	
TPH-DRO (C10-C44)	NC	NC	NC	NC	148	843	

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-6-ENV-1/2	RCH-6-ENV-1/7	RCH-6-ENV-2W/1	RCH-6-ENV-2W/6
					Lab Sample ID	JA81299-5	JA81439-3	JA81299-6	JA81299-7
					Sampling Date	7/19/2011	7/20/2011	7/19/2011	7/19/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00036)	ND (0.00026)	ND (0.00052)	ND (0.00076)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00027)	ND (0.00020)	ND (0.00039)	ND (0.00056)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00065)	ND (0.00048)	ND (0.00094)	ND (0.0014)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00033)	ND (0.00024)	ND (0.00047)	ND (0.00068)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00092)	ND (0.00067)	ND (0.0013)	ND (0.0019)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00065)	ND (0.00048)	ND (0.00095)	ND (0.0014)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00051)	ND (0.00037)	ND (0.00074)	ND (0.0011)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0023)	ND (0.0017)	ND (0.0033)	ND (0.0047)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00026)	ND (0.00052)	ND (0.00075)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00041)	ND (0.00030)	ND (0.00060)	ND (0.00087)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00027)	ND (0.00020)	ND (0.00040)	ND (0.00057)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00040)	ND (0.00029)	ND (0.00058)	ND (0.00083)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00029)	ND (0.00021)	ND (0.00042)	ND (0.00060)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00025)	ND (0.00019)	ND (0.00037)	ND (0.00053)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.087)	ND (0.064)	ND (0.13)	ND (0.18)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0065)	ND (0.0048)	ND (0.0094)	ND (0.014)	
2-Hexanone	NC	NC	NC	NC	ND (0.0037)	ND (0.0027)	ND (0.0054)	ND (0.0078)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0039)	ND (0.0029)	ND (0.0057)	ND (0.0082)	
Acetone	0.05	1,000	2.2	0.05	0.0266	ND (0.0073)	0.202	0.231	
Benzene	0.06	89	70	0.06	ND (0.00020)	ND (0.00015)	ND (0.00029)	ND (0.00042)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00078)	ND (0.00057)	ND (0.0011)	ND (0.0016)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00025)	ND (0.00049)	ND (0.00070)	
Bromoform	NC	NC	NC	NC	ND (0.0011)	ND (0.00083)	ND (0.0016)	ND (0.0024)	
Bromomethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00043)	ND (0.00086)	ND (0.0012)	
Carbon disulfide	NC	NC	NC	2.7	0.00033	J ND (0.00022)	0.0015	J 0.0071	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00052)	ND (0.00038)	ND (0.00075)	ND (0.0011)	
Chlorobenzene	1	1,000	40	1	ND (0.00048)	ND (0.00035)	ND (0.00070)	ND (0.0010)	
Chloroethane	NC	NC	NC	1.9	ND (0.00061)	ND (0.00045)	ND (0.00089)	ND (0.0013)	
Chloroform	0.37	700	12	0.37	ND (0.00072)	ND (0.00053)	ND (0.0011)	ND (0.0015)	
Chloromethane	NC	NC	NC	NC	ND (0.00093)	ND (0.00069)	ND (0.0014)	ND (0.0020)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00048)	ND (0.00035)	ND (0.00070)	ND (0.0010)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00023)	ND (0.00017)	ND (0.00033)	ND (0.00048)	
Cyclohexane	NC	NC	NC	NC	ND (0.00057)	ND (0.00042)	ND (0.00083)	ND (0.0012)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00025)	ND (0.00018)	ND (0.00037)	ND (0.00053)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00035)	ND (0.00070)	ND (0.0010)	
Ethylbenzene	1	780	NC	1	ND (0.00022)	ND (0.00016)	ND (0.00032)	ND (0.00046)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.0011)	ND (0.00079)	ND (0.0016)	ND (0.0022)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00020)	ND (0.00015)	ND (0.00030)	ND (0.00043)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00047)	ND (0.00034)	ND (0.00068)	ND (0.00098)	
Methyl acetate	NC	NC	NC	NC	ND (0.00033)	ND (0.00024)	ND (0.00048)	ND (0.00070)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00037)	ND (0.00027)	ND (0.00053)	ND (0.00077)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00034)	ND (0.00025)	ND (0.00050)	ND (0.00072)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00027)	ND (0.00020)	ND (0.00039)	ND (0.00056)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00027)	ND (0.00020)	ND (0.00040)	ND (0.00058)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00028)	ND (0.00020)	ND (0.00040)	ND (0.00058)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00029)	ND (0.00021)	ND (0.00042)	ND (0.00060)	
Toluene	0.7	1,000	36	0.7	ND (0.00056)	ND (0.00042)	ND (0.00082)	ND (0.0012)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00063)	ND (0.00047)	ND (0.00092)	ND (0.0013)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00050)	ND (0.00037)	ND (0.00073)	ND (0.0011)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00037)	ND (0.00027)	ND (0.00054)	ND (0.00077)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00072)	ND (0.00053)	ND (0.0010)	ND (0.0015)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00069)	ND (0.00051)	ND (0.0010)	ND (0.0014)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00027)	ND (0.00020)	ND (0.00040)	ND (0.00058)	
Total VOCs	NC	NC	NC	NC	0.03	ND	0.20	0.24	

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-6-ENV-3/4	RCH-6-ENV-3/6	RCH-6-ENV-4/2	RCH-6-ENV-4/8
					Lab Sample ID	JA81439-1	JA81439-2	JA81299-1	JA81299-2
					Sampling Date	7/20/2011	7/20/2011	7/18/2011	7/18/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00026)	ND (0.00062)	ND (0.00026)	ND (0.00065)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00019)	ND (0.00046)	ND (0.00019)	ND (0.00048)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00046)	ND (0.0011)	ND (0.00047)	ND (0.0012)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00023)	ND (0.00056)	ND (0.00024)	ND (0.00059)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00065)	ND (0.0016)	ND (0.00066)	ND (0.0017)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00046)	ND (0.0011)	ND (0.00047)	ND (0.0012)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00036)	ND (0.00088)	ND (0.00037)	ND (0.00092)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0016)	ND (0.0039)	ND (0.0016)	ND (0.0041)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00062)	ND (0.00026)	ND (0.00064)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00029)	ND (0.00072)	ND (0.00030)	ND (0.00075)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00019)	ND (0.00047)	ND (0.00020)	ND (0.00049)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00028)	ND (0.00069)	ND (0.00029)	ND (0.00072)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00020)	ND (0.00050)	ND (0.00021)	ND (0.00052)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00018)	ND (0.00044)	ND (0.00018)	ND (0.00046)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.062)	ND (0.15)	ND (0.063)	ND (0.16)	
2-Butanone (MEK)	0.12	1,000	100	0.12	0.0171	ND (0.011)	ND (0.0047)	ND (0.012)	
2-Hexanone	NC	NC	NC	NC	ND (0.0026)	ND (0.0064)	ND (0.0027)	ND (0.0067)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0028)	ND (0.0068)	ND (0.0028)	ND (0.0071)	
Acetone	0.05	1,000	2.2	0.05	0.0679	0.0758	0.0374	0.225	
Benzene	0.06	89	70	0.06	ND (0.00014)	ND (0.00034)	ND (0.00014)	ND (0.00036)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00055)	ND (0.0013)	ND (0.00056)	ND (0.0014)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00024)	ND (0.00058)	ND (0.00024)	ND (0.00060)	
Bromoform	NC	NC	NC	NC	ND (0.00080)	ND (0.0020)	ND (0.00082)	ND (0.0020)	
Bromomethane	NC	NC	NC	NC	ND (0.00042)	ND (0.0010)	ND (0.00043)	ND (0.0011)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00021)	ND (0.00051)	0.00085	0.006	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00037)	ND (0.00090)	ND (0.00037)	ND (0.00093)	
Chlorobenzene	1	1,000	40	1	ND (0.00034)	ND (0.00083)	ND (0.00035)	ND (0.00087)	
Chloroethane	NC	NC	NC	1.9	ND (0.00043)	ND (0.0011)	ND (0.00044)	ND (0.0011)	
Chloroform	0.37	700	12	0.37	ND (0.00051)	ND (0.0013)	ND (0.00052)	ND (0.0013)	
Chloromethane	NC	NC	NC	NC	ND (0.00066)	ND (0.0016)	ND (0.00067)	ND (0.0017)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00034)	ND (0.00083)	ND (0.00035)	ND (0.00087)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00016)	ND (0.00039)	ND (0.00016)	ND (0.00041)	
Cyclohexane	NC	NC	NC	NC	ND (0.00040)	ND (0.00098)	ND (0.00041)	ND (0.0010)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00018)	ND (0.00044)	ND (0.00018)	ND (0.00045)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00034)	ND (0.00083)	ND (0.00035)	ND (0.00087)	
Ethylbenzene	1	780	NC	1	ND (0.00016)	ND (0.00038)	ND (0.00016)	ND (0.00040)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00076)	ND (0.0019)	ND (0.00078)	ND (0.0019)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)	ND (0.00035)	ND (0.00015)	ND (0.00037)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00033)	ND (0.00081)	ND (0.00034)	ND (0.00085)	
Methyl acetate	NC	NC	NC	NC	ND (0.00024)	ND (0.00058)	ND (0.00024)	ND (0.00060)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00026)	ND (0.00063)	ND (0.00027)	ND (0.00066)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00024)	ND (0.00060)	ND (0.00025)	ND (0.00062)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00019)	ND (0.00046)	ND (0.00019)	ND (0.00048)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00020)	ND (0.00048)	ND (0.00020)	ND (0.00050)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00020)	ND (0.00048)	ND (0.00020)	ND (0.00050)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00020)	ND (0.00049)	ND (0.00021)	ND (0.00052)	
Toluene	0.7	1,000	36	0.7	ND (0.00040)	ND (0.00098)	ND (0.00041)	ND (0.0010)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00045)	ND (0.0011)	ND (0.00046)	ND (0.0011)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00036)	ND (0.00087)	ND (0.00036)	ND (0.00091)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00026)	ND (0.00064)	ND (0.00027)	ND (0.00067)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00051)	ND (0.0012)	ND (0.00052)	ND (0.0013)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00049)	ND (0.0012)	ND (0.00050)	ND (0.0012)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00020)	ND (0.00048)	ND (0.00020)	ND (0.00050)	
Total VOCs	NC	NC	NC	NC	0.09	0.08	0.0459	0.231	

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-6-ENV-5W/2	RCH-6-ENV-5W/6
					Lab Sample ID	JA81299-3	JA81299-4
					Sampling Date	7/19/2011	7/19/2011
					Matrix	Soil	Soil
					Units	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00027)		ND (0.00071)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)		ND (0.00052)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00049)		ND (0.0013)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00024)		ND (0.00064)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00069)		ND (0.0018)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00049)		ND (0.0013)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00038)		ND (0.0010)
1,2,4-Trimethylbenzene	4	380	NC	4	NA		NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)		ND (0.0044)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00027)		ND (0.00070)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)		ND (0.00081)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00020)		ND (0.00053)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00030)		ND (0.00078)
1,3,5-Trimethylbenzene	8	380	NC	8	NA		NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)		ND (0.00056)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)		ND (0.00050)
1,4-Dioxane	0.1	250	1	0.1	ND (0.065)		ND (0.17)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0049)		ND (0.013)
2-Hexanone	NC	NC	NC	NC	ND (0.0028)		ND (0.0073)
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0029)		ND (0.0077)
Acetone	0.05	1,000	2.2	0.05	0.0748		0.231
Benzene	0.06	89	70	0.06	ND (0.00015)		ND (0.00039)
Bromochloromethane	NC	NC	NC	NC	ND (0.00058)		ND (0.0015)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)		ND (0.00066)
Bromoform	NC	NC	NC	NC	ND (0.00085)		ND (0.0022)
Bromomethane	NC	NC	NC	NC	ND (0.00044)		ND (0.0012)
Carbon disulfide	NC	NC	NC	2.7	0.00056	J	0.0131
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00039)		ND (0.0010)
Chlorobenzene	1	1,000	40	1	ND (0.00036)		ND (0.00094)
Chloroethane	NC	NC	NC	1.9	ND (0.00046)		ND (0.0012)
Chloroform	0.37	700	12	0.37	ND (0.00054)		ND (0.0014)
Chloromethane	NC	NC	NC	NC	ND (0.00070)		ND (0.0018)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)		ND (0.00094)
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)		ND (0.00045)
Cyclohexane	NC	NC	NC	NC	ND (0.00042)		ND (0.0011)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)		ND (0.00049)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00036)		ND (0.00094)
Ethylbenzene	1	780	NC	1	ND (0.00017)		ND (0.00043)
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00080)		ND (0.0021)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)		ND (0.00040)
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00047)		ND (0.00092)
Methyl acetate	NC	NC	NC	NC	ND (0.00025)		ND (0.00065)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00027)		0.00092
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00026)		ND (0.00067)
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00027)		0.0019
n-Butylbenzene	12	1,000	NC	12	NA		NA
n-Propylbenzene	3.9	1,000	NC	4	NA		NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)		ND (0.00054)
p-Isopropyltoluene	NC	NC	NC	NC	NA		NA
sec-Butylbenzene	11	1,000	NC	11	NA		NA
Styrene	NC	NC	300	NC	ND (0.00021)		ND (0.00054)
tert-Butylbenzene	5.9	1,000	NC	6	NA		NA
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00021)		ND (0.00056)
Toluene	0.7	1,000	36	0.7	ND (0.00042)		ND (0.0011)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00048)		ND (0.0012)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)		ND (0.00098)
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00037)		ND (0.00072)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00054)		ND (0.0014)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00052)		ND (0.0014)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00027)		ND (0.00021)
Total VOCs	NC	NC	NC	NC	0.08		0.23

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT-2 WC	RCH-6-ARC/MT-3 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC
Sample ID/Depth									
Lab Sample ID					JB1690-1	JB1510-3	JB1510-2	JB1510-4/4B	JB1768-1
Sampling Date					3/14/2012	03/13/12	03/13/12	3/13/2012	3/15/2012
Matrix					Soil	Soil	Soil	Soil	Soil
GENERAL CHEMISTRY					Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	347	NA	NA	352	NA
Solids, Percent (%)	NC	NC	NC	NC	85.3	80.6	54.8	6.89	NA
pH (su)	NC	NC	NC	NC	6.19	NA	NA	NA	320
Percent Sulfur %	NC	NC	NC	NC	<0.13	NA	NA	NA	87.1
Sulfide Screen	NC	NC	NC	NC	NA	NA	NA	NA	NA
Total Organic Halides (mg/kg)	NC	NC	NC	NC	<24	NA	NA	NA	6.6

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-6-ARC-/MT-7 WC	RCH-6-ARC-/MT-9 WC	RCH-6-ARC/MT(7+9) COMP WC	RCH-6-ARC-/MT-11 WC	RCH-6-ARC-/MT-12WC
Sample ID/Depth									
Lab Sample ID					JB1319-1	JB1190-1	JB1510-1	JB1033-1	JB1033-2
Sampling Date					3/9/2012	3/8/2012	3/7/2012	3/7/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil	Soil
					Result	Result	Result	Result	Result
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO					
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	NA	NA	354	NA	NA
Solids, Percent (%)	NC	NC	NC	NC	NA	NA	NA	NA	NA
pH (su)	NC	NC	NC	NC	<0.17	<0.13	8	0.13	0.23
Percent Sulfur %	NC	NC	NC	NC	73.1	87.3	NA	83	67.2
Sulfide Screen	NC	NC	NC	NC	NA	NA	354	NA	NA
Total Organic Halides (mg/kg)	NC	NC	NC	NC	<27	<23	NA	<24	<30

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					RCH-6-ARC-MT (11+12) COMP WC
Sample ID/Depth					
Lab Sample ID					JB1319-2/2RT
Sampling Date					3/9/2012
Matrix					Soil
GENERAL CHEMISTRY	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Redox Potential Vs H2 (mv)	NC	NC	NC	NC	274
Solids, Percent (%)	NC	NC	NC	NC	7.57
pH (su)	NC	NC	NC	NC	49100
Percent Sulfur %	NC	NC	NC	NC	0.99
Sulfide Screen	NC	NC	NC	NC	NEGATIVE
Total Organic Halides (mg/kg)	NC	NC	NC	NC	145000

Notes:
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP METALS AND CYANIDE

	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT(7+9)	RCH-6- ARC/MT(11+12)
TRC Sample No.:	COMP WC	COMP WC	COMP WC
Date Sampled:	03/13/12	03/12/12	03/09/12
Lab Sample No.:	JB1510-4A	JB1510-1B	JB1319-2A
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

Metals	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result
Arsenic	5.0	<0.50	<0.50	<0.50
Barium	100.0	1.1	<1.0	1.5
Cadmium	1.0	0.006	0.014	0.013
Chromium	5.0	<0.010	<0.010	<0.010
Copper	NC	0.3	0.2	0.26
Lead	5.0	1.6	<0.50	4.6
Mercury	0.2	<0.00020	<0.00020	<0.00020
Nickel	NC	0.053	0.046	0.089
Selenium	1.0	<0.50	<0.50	<0.50
Silver	5.0	<0.010	<0.010	<0.010
Zinc	NC	3.1	1.9	4.9

TCLP: Toxicity Characteristic Leaching Procedure
 NC - No criterion

**RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE**

Sample ID/Depth					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC	RCH-6-ARC/MT(7+9) COMP WC
Lab Sample ID					JB1690-1	JB1510-4	JB1690-1/1R	JB1510-1
Sampling Date					3/14/2012	3/13/2012	3/15/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	5870	5860	4870	9480
Antimony	NC	NC	12	NC	<2.5	<2.7	<2.3	<2.2
Arsenic	13	16	13	16	4.7	15.3	10.5	7.6
Barium	350	10,000	433	820	36	304	110	170
Beryllium	7.2	2,700	10	47	0.5	0.42	0.63	0.99
Cadmium	2.5	60	4	7.5	<0.63	0.93	0.65	1.5
Calcium	NC	NC	10000	NC	781	2780	9060	2030
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	10.7	19.3	16.2	33.1
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47(<0.47)	<0.53 (<0.53)	<0.28	0.65 (0.49)
Chromium (Trivalent)	30	6800	41	NC	10.7	18.9	<0.46(<0.46)	32.5
Cobalt	NC	NC	20	NC	<6.3	6.8	16	8
Copper	50	10,000	50	1,720	20.5	138	6.4	148
Cyanide (Total)	27	10,000	NC	40	<0.26	0.99	63	<0.27
Iron	NC	NC	NC	NC	14700	22300	45400	24500
Lead	63	3,900	63	450	13.2	810	240	327
Magnesium	NC	NC	NC	NC	1280	1570	4660	1980
Manganese	1,600	10,000	1600	2,000	150	259	355	200
Mercury (Total)	0.18	5.7	0.18	0.73	0.094	1.2	0.23	0.23
Nickel	30	10,000	30	130	7.7	20.2	19.9	37.1
Potassium	NC	NC	NC	NC	<1300	<1400	<1100	1420
Selenium	3.9	6,800	3.9	4	<2.5	<2.7	<2.3	<2.2
Silver	2	6,800	2	8.3	<0.63	<0.68	NA	<0.54
Sodium	NC	NC	NC	NC	<1300	<1400	<1100	<1100
Thallium	NC	NC	5	NC	<1.3	<1.4	<1.1	<1.1
Vanadium	NC	NC	39	NC	16.3	20.4	22.5	39
Zinc	109	10,000	109	2,480	36.6	608	261	627

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

a - Calculated as: (Chromium) - (Chromium, Hexavalent)

**RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE**

					RCH-6-ARC-MT (11+12) COMP WC
Sample ID/Depth					
Lab Sample ID					JB1319-2
Sampling Date					3/9/2012
Matrix					Soil
Units					mg/kg
METALS AND CYANIDE	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
Aluminum	NC	NC	10000	NC	7760
Antimony	NC	NC	12	NC	<2.5
Arsenic	13	16	13	16	9.3
Barium	350	10,000	433	820	192
Beryllium	7.2	2,700	10	47	0.76
Cadmium	2.5	60	4	7.5	0.8
Calcium	NC	NC	10000	NC	8290
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	24.9
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.48
Chromium (Trivalent)	30	6800	41	NC	24.9 a
Cobalt	NC	NC	20	NC	8.6
Copper	50	10,000	50	1,720	201
Cyanide (Total)	27	10,000	NC	40	0.34
Iron	NC	NC	NC	NC	21000
Lead	63	3,900	63	450	423
Magnesium	NC	NC	NC	NC	4120
Manganese	1,600	10,000	1600	2,000	293
Mercury (Total)	0.18	5.7	0.18	0.73	0.87
Nickel	30	10,000	30	130	26.7
Potassium	NC	NC	NC	NC	1820
Selenium	3.9	6,800	3.9	4	<2.5
Silver	2	6,800	2	8.3	<0.62
Sodium	NC	NC	NC	NC	<1200
Thallium	NC	NC	5	NC	<1.2
Vanadium	NC	NC	39	NC	54.3
Zinc	109	10,000	109	2,480	660

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

NC - No Criterion

<2.2 - Less than the Method Detection Limit

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

a - Calculated as: (Chromium) - (Chromium, Hexavalent)

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC	RCH-6-ARC/MT-7 WC
Lab Sample ID					JB1690-1	JB1510-4	JB1768-1	JB1319-1R
Sampling Date					3/14/2012	3/13/2012	3/15/2012	3/9/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0099)	ND (0.0085)	ND (0.011)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.023)	ND (0.020)	ND (0.025)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.019)	ND (0.017)	ND (0.021)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.013)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.0099)	ND (0.012)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.018)	ND (0.015)	ND (0.019)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.011)	0.684
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.0096)	ND (0.012)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.013)
Total PCBs	0.1	25	1	3.2	ND	ND	ND	0.684

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

ND (0.0089) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

RCH-6 TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

Sample ID/Depth					RCH-6-ARC/MT-9 WC	RCH-6-ARC/MT(7+9) COMP WC	RCH-6-ARC-MT (11+12) COMP WC
Lab Sample ID					JB1190-1R	JB1510-1	JB1319-2
Sampling Date					3/8/2012	3/7/2012	3/9/2012
Matrix					Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0090)	ND (0.0087)	ND (0.0091)
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.020)	ND (0.021)
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	2.23	ND (0.011)
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.0099)	ND (0.010)
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)
Total PCBs	0.1	25	1	3.2	ND	2.23	ND

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 ND (0.0089) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP PESTICIDES AND HERBICIDES

	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT(7+9)	RCH-6- ARC/MT(11+12)
TRC Sample No.:	COMP WC	COMP WC	COMP WC
Date Sampled:	03/13/12	03/12/12	03/09/12
Lab Sample No.:	JB1510-4B	JB1510-1B	JB1319-2B
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

Pesticides and Herbicides	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result
gamma-BHC (Lindane)	0.40	ND (0.000041)	ND (0.000041)	ND (0.000041)
Chlordane	0.03	ND (0.0024)	ND (0.0024)	ND (0.0024)
Endrin	0.02	ND (0.000064)	ND (0.000064)	ND (0.000064)
Heptachlor	0.01	ND (0.000084)	ND (0.000084)	ND (0.000084)
Heptachlor epoxide	0.01	ND (0.000038)	ND (0.000038)	ND (0.000038)
Methoxychlor	10	ND (0.000082)	ND (0.000082)	ND (0.000082)
Toxaphene	0.5	ND (0.0015)	ND (0.0015)	ND (0.0015)
2,4-D	NC	ND (0.0013)	ND (0.0013)	ND (0.0013)
2,4,5-TP (Silvex)	NC	ND (0.00018)	ND (0.00018)	ND (0.00018)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-6-ARC/MT-1	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT-5 WC	RCH-6-ARC/MT(7+9)
Lab Sample ID					WC	COMP WC		COMP WC
Sampling Date					JB1690-1	JB1510-4	JB1768-1	JB1510-1
					3/14/2012	3/13/2012	3/15/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	0.0063	0.0612	ND (0.00034)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	0.0039 a	0.0301	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	0.0011 a	0.0016	ND (0.00049)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00038)	ND (0.00033)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00057)	ND (0.00049)	ND (0.00050)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00050)	ND (0.00042)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00054)	ND (0.00046)	ND (0.00047)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00039)	ND (0.00033)	ND (0.00034)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00045)	ND (0.00038)	ND (0.00039)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00059)	ND (0.00050)	ND (0.00052)
Endosulfan-I	2.4	920	NC	102	ND (0.00033)	ND (0.00037)	ND (0.0032)	ND (0.00033)
Endosulfan-II	2.4	920	NC	102	ND (0.00045)	ND (0.00050)	ND (0.0043)	ND (0.00044)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00069)	ND (0.00059)	ND (0.00061)
Endrin	0.014	410	0.014	0.060	ND (0.00035)	ND (0.00039)	ND (0.00033)	ND (0.00034)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00072)	ND (0.00062)	ND (0.00064)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00050)	ND (0.00042)	ND (0.00044)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00031)	ND (0.00035)	ND (0.00030)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00047)	ND (0.00040)	ND (0.00041)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00038)	ND (0.00032)	ND (0.00033)
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00054)	ND (0.00046)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.0086)	ND (0.0096)	ND (0.0082)	ND (0.0085)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0055)	ND (0.0047)	ND (0.0047)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00066)	ND (0.00057)	ND (0.00056)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0017)	ND (0.0014)	ND (0.0014)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0013)	ND (0.0011)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00077)	ND (0.00067)	ND (0.00066)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0045)	ND (0.0039)	ND (0.0038)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0036)	ND (0.0031)	ND (0.0030)
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.60)	ND (0.52)	ND (0.51)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.31)	ND (0.27)	ND (0.26)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0013)	ND (0.0011)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.013)	ND (0.011)	ND (0.011)

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

ND (0.00039) - Not Detected (Method Detection Limit)

b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for confirmation only.

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

Sample ID/Depth					RCH-6-ARC-MT
Lab Sample ID					(11+12) COMP WC
Sampling Date					JB1319-2
Matrix					3/9/2012
Units					Soil
Units					mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result
4,4'-DDD	0.0033	0.18	0.0033	14	0.004
4,4'-DDE	0.0033	120	0.0033	17	0.0022
4,4'-DDT	0.0033	94	0.0033	136	0.0024
Aldrin	0.005	1.4	0.14	0.19	ND (0.00035)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00052)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00046)
beta-BHC	0.036	14	0.6	0.09	ND (0.00049)
Chlordane	NC	NC	NC	NC	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00041)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00054)
Endosulfan-I	2.4	920	NC	102	ND (0.00034)
Endosulfan-II	2.4	920	NC	102	ND (0.00046)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00063)
Endrin	0.014	410	0.014	0.060	ND (0.00036)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00066)
Endrin ketone	NC	NC	NC	NC	ND (0.00045)
gamma-BHC (Lindane)	0.1	23	6	0.1	ND (0.00032)
Heptachlor	0.042	29	0.14	0.38	ND (0.00043)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00049)
Toxaphene	NC	NC	NC	NC	ND (0.0088)
2,4-D	NC	NC	NC	0.5	ND (0.0050)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00060)
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0012)
Dicamba	NC	NC	NC	NC	ND (0.00070)
Dichloroprop	NC	NC	NC	NC	ND (0.0040)
Dinoseb	NC	NC	NC	NC	ND (0.0032)
MCPA	NC	NC	NC	NC	ND (0.54)
MCPP	NC	NC	NC	NC	ND (0.28)
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)
2,4-DB	NC	NC	NC	NC	ND (0.012)

Notes:

mg/kg - milligrams per kilogram

NC - No Criterion

NA - Not Analyzed

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

ND (0.00039) - Not Detected (Method Detection Limit)

b = Reported from 2nd signal. %D of end check (ECC) on 1st signal excess method criteria (20 %) so using for c

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR RCRA CHARACTERISTICS

	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT(7+9)	RCH-6-ARC/MT(11+12)
TRC Sample ID/Depth	COMP WC	COMP WC	COMP WC
Date Sampled	03/13/12	03/12/12	03/09/12
Lab Sample No.	JB1510-4/4B	JB1510-1B	JB1319-2/2A
Matrix	Accutest	Accutest	Accutest
Depth Interval	COMPOSITE	COMPOSITE	COMPOSITE

RCRA CHARACTERISTICS	Regulatory Level*	RESULT	RESULT	RESULT
Cyanide Reactivity (mg/kg)	250	<13	<11	<12
Sulfide Reactivity (mg/kg)	500	<130	<110	<120
Corrosivity as pH (su)	<2 or >12.5	6.72 NC	8.02 NC	7.40 NC
Ignitability - Flashpoint (Deg.*F)	>140	>200	>200	>200
Paint Filter (ml/100g)	NC	<0.50	<0.50	<0.50
Moisture, Percent (%)	NC	24.7	12.6	16.4
Total Organic Halides (mg/kg)	NC	<26	<22	<24
Total Sulfur (mg/kg)	NC	<0.17	<0.15	<0.16

* United States Environmental Protection Agency (USEPA) Maximum Concentration of Contaminants for Toxicity Characteristics
 NC - No criterion
 NA - Not Analyzed
 ND (11) = Not Detected above (Method Detection Limit)
 b - No free liquids.

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP SEMIVOLATILE ORGANIC COMPOUNDS

	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT(7+9)	RCH-6- ARC/MT(11+12)
TRC Sample No.:	COMP WC	COMP WC	COMP WC
Date Sampled:	03/13/12	03/12/12	03/09/12
Lab Sample No.:	JB1510-4B	JB1510-1B	JB1319-2B
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

SVOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result
2-Methylphenol	200	ND (0.010)	ND (0.010)	ND (0.010)
3&4-Methylphenol	200	ND (0.0093)	ND (0.0093)	ND (0.0093)
Pentachlorophenol	100	ND (0.014)	ND (0.014)	ND (0.014)
2,4,5-Trichlorophenol	400	ND (0.016)	ND (0.016)	ND (0.016)
2,4,6-Trichlorophenol	2	ND (0.013)	ND (0.013)	ND (0.013)
1,4-Dichlorobenzene	7.5	ND (0.0036)	ND (0.0036)	ND (0.0036)
2,4-Dinitrotoluene	0.13	ND (0.0043)	ND (0.0043)	ND (0.0043)
Hexachlorobenzene	0.13	ND (0.0034)	ND (0.0034)	ND (0.0034)
Hexachlorobutadiene	0.5	ND (0.0051)	ND (0.0051)	ND (0.0051)
Hexachloroethane	3	ND (0.0055)	ND (0.0055)	ND (0.0055)
Nitrobenzene	2	ND (0.0042)	ND (0.0042)	ND (0.0042)
Pyridine	5	ND (0.0032)	ND (0.0032)	ND (0.0032)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion

RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

Sample ID/Depth Lab Sample ID Sampling Date Matrix Units					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC	RCH-6-ARC/MT(7+9) COMP WC	RCH-6-ARC-MT (11+12) COMP WC
					JB1690-1B 3/14/2012 Soil mg/kg	JB1510-4 3/13/2012 Soil mg/kg	JB1768-1 3/15/2012 Soil mg/kg	JB1510-1 3/7/2012 Soil mg/kg	JB1319-2 3/9/2012 Soil mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
	1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.00027)	ND (0.012)	ND (0.010)	ND (0.010)
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	ND (0.00020)	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.00049)	ND (0.039)	ND (0.034)	ND (0.033)	ND (0.035)
2,4,6-Trichlorophenol	NC	NC	4	0.1	ND (0.00025)	ND (0.044)	ND (0.038)	ND (0.038)	ND (0.040)
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.00069)	ND (0.035)	ND (0.031)	ND (0.030)	ND (0.032)
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.00049)	ND (0.060)	ND (0.053)	ND (0.052)	ND (0.055)
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.00038)	ND (0.063)	ND (0.055)	ND (0.054)	ND (0.057)
2,4-Dinitrophenol	NC	NC	20	0.2	NA	ND (0.046)	ND (0.040)	ND (0.040)	ND (0.042)
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.0017)	ND (0.016)	ND (0.014)	ND (0.014)	ND (0.015)
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.00027)	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.013)
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.00031)	ND (0.012)	ND (0.010)	ND (0.010)	ND (0.011)
2-Chlorophenol	NC	NC	0.8	NC	ND (0.00021)	ND (0.038)	ND (0.033)	ND (0.033)	ND (0.035)
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.00030)	ND (0.021)	ND (0.018)	ND (0.018)	ND (0.019)
2-Methylphenol	0.33	1,000	NC	0.33	NA	ND (0.043)	ND (0.037)	ND (0.037)	NA
2-Nitroaniline	NC	NC	NC	0.4	ND (0.00022)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.015)
2-Nitrophenol	NC	NC	7	0.3	ND (0.00019)	ND (0.040)	ND (0.035)	ND (0.034)	ND (0.036)
3&4-Methylphenol	NC	NC	NC	NC	ND (0.066)	ND (0.048)	ND (0.042)	ND (0.041)	NA
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0049)	ND (0.0095)	ND (0.0083)	ND (0.0082)	ND (0.0087)
3-Nitroaniline	NC	NC	NC	0.5	ND (0.0028)	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.014)
4,6-Dinitro-o-cresol	NC	NC	NC	NC	ND (0.0030)	ND (0.046)	ND (0.040)	ND (0.040)	NA
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.0075)	ND (0.014)	ND (0.012)	ND (0.012)	ND (0.012)
4-Chloro-3-methyl phenol	NC	NC	NC	NC	ND (0.017)	ND (0.038)	ND (0.033)	ND (0.032)	NA
4-Chloroaniline	NC	NC	NC	0.22	ND (0.00075)	ND (0.012)	ND (0.010)	ND (0.010)	ND (0.011)
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.00015)	ND (0.011)	ND (0.0099)	ND (0.0098)	ND (0.010)
4-Methylphenol	NC	NC	NC	NC	ND (0.00059)	NA	NA	NA	NA
4-Nitroaniline	NC	NC	NC	NC	ND (0.00025)	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.013)
4-Nitrophenol	NC	NC	7	0.3	ND (0.00085)	ND (0.063)	ND (0.055)	ND (0.055)	ND (0.058)
Acenaphthene	20	1,000	20	98	ND (0.00044)	0.0189	ND (0.0095)	ND (0.0094)	ND (0.0099)
Acenaphthylene	100	1,000	NC	107	ND (0.00022)	ND (0.012)	0.0198	0.0285	J ND (0.011)
Acetophenone	NC	NC	NC	NC	ND (0.00039)	ND (0.0066)	ND (0.0058)	ND (0.0057)	ND (0.0060)
Anthracene	100	1,000	NC	1,000	ND (0.00036)	0.0568	0.0344	0.0392	0.0299
Atrazine	NC	NC	NC	NC	ND (0.00046)	ND (0.0074)	ND (0.0065)	ND (0.0064)	ND (0.0067)
Benzaldehyde	NC	NC	NC	NC	ND (0.00054)	ND (0.0086)	ND (0.0075)	ND (0.0075)	0.0292
Benz[a]anthracene	1	11	NC	1	ND (0.00070)	0.184	0.159	0.1560	0.1330
Benz[a]pyrene	1	1	2.6	22	ND (0.00036)	0.175	0.156	0.1510	0.1520
Benz[b]fluoranthene	1	11	NC	2	ND (0.00017)	0.157	0.2	0.1830	0.1550
Benz[g,h,i]perylene	100	1,000	NC	1,000	ND (0.00043)	0.129	0.114	0.1250	0.1090
Benz[k]fluoranthene	1	110	NC	2	ND (0.00019)	0.0927	0.0822	0.1020	0.1020
Benidine	NC	NC	NC	NC	ND (0.00036)	ND (0.14)	ND (0.12)	ND (0.12)	0.0292
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.00017)	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.014)
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.00081)	ND (0.011)	ND (0.0099)	ND (0.0098)	ND (0.010)
bis(2-Chloroisopropyl)ether	NC	NC	NC	NC	ND (0.00015)	ND (0.011)	ND (0.0097)	ND (0.0096)	NA
bis(2-Ethylhexyl)phthalate	NC	NC	239	435	ND (0.00035)	ND (0.033)	ND (0.029)	ND (0.029)	NA
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.00025)	ND (0.022)	ND (0.019)	ND (0.019)	ND (0.020)
Benzyl Alcohol	NC	NC	NC	NC	ND (0.00028)	ND (0.016)	ND (0.014)	ND (0.013)	NA
Caprolactam	NC	NC	NC	NC	ND (0.00026)	ND (0.012)	ND (0.010)	ND (0.010)	ND (0.011)
Carbazole	NC	NC	NC	NC	ND (0.00020)	ND (0.017)	0.017	0.0202	J ND (0.016)
Chrysene	1	110	NC	1	NA	0.205	0.193	0.1890	0.1430
Dibenzo(a,h)anthracene	0.33	1.1	NC	1,000	NA	0.0439	ND (0.011)	0.0437	NA
Dibenzofuran	7	1,000	NC	210	ND (0.00021)	ND (0.011)	ND (0.0097)	ND (0.0096)	ND (0.010)
Diethyl phthalate	NC	NC	100	7	NA	ND (0.013)	ND (0.011)	ND (0.011)	ND (0.012)
Dimethyl phthalate	NC	NC	200	27	NA	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.012)
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.00021)	ND (0.0083)	ND (0.0073)	ND (0.0072)	ND (0.0076)
Di-n-octyl phthalate	NC	NC	NC	120	NA	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.017)
1,2-Diphenylhydrazine	NC	NC	NC	NC	ND (0.00022)	ND (0.015)	NA	ND (0.013)	NA
1,1'-Bi(phenyl)	NC	NC	60	NC	ND (0.00043)	ND (0.044)	ND (0.038)	ND (0.038)	NA
Fluoranthene	100	1,000	NC	1,000	ND (0.00048)	0.290	0.324	0.2570	0.2320
Fluorene	30	1,000	30	386	ND (0.00038)	0.018	J ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobenzene	0	12	NC	3	ND (0.00028)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.00054)	ND (0.010)	ND (0.0091)	ND (0.0090)	ND (0.0095)
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.00052)	ND (0.038)	ND (0.033)	ND (0.033)	ND (0.035)
Hexachloroethane	NC	NC	NC	NC	ND (0.00021)	ND (0.010)	ND (0.0091)	ND (0.0090)	ND (0.0095)
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND	0.1030	0.131	0.1150	0.0849
Isophorone	NC	NC	NC	4	ND (0.010)	ND (0.010)	ND (0.0088)	ND (0.0087)	ND (0.0092)
Naphthalene	12	1,000	NC	12	0.0359	J 0.0359	J 0.0169	ND (0.0088)	0.0183
Nitrobenzene	NC	140	40	0.17	ND (0.011)	ND (0.011)	ND (0.0095)	ND (0.0094)	ND (0.0099)
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	ND (0.0092)	ND (0.0092)	ND (0.0080)	ND (0.0079)	NA
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.019)	ND (0.020)
n-Nitrosodimethylamine	NC	NC	NC	NC	ND (0.033)	ND (0.033)	ND (0.029)	ND (0.029)	NA
Pentachlorophenol	1	55	0.8	1	ND (0.064)	ND (0.064)	ND (0.056)	ND (0.055)	ND (0.0012)
Phenanthrene	100	1,000	NC	1,000	0.2170	0.2170	0.171	0.1470	0.1190
Phenol	0.33	1,000	30	0.33	ND (0.039)	ND (0.039)	ND (0.034)	ND (0.034)	ND (0.036)
Pyrene	100	1,000	NC	1,000	0.424	0.424	0.297	0.3090	0.2390
Total SVOCs	NC	NC	NC	NC	0.68	2.15	1.92	1.87	1.58

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective
* - Recovery or RPD exceeds control limits

**RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS**

	Sample ID/Depth			
	Lab Sample ID			
	Sampling Date			
	Matrix			
	Units			
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC
2,4,5-Trichlorophenol	NC	NC	4	0.1
2,4,6-Trichlorophenol	NC	NC	10	NC
2,4-Dichlorophenol	NC	NC	20	0.4
2,4-Dimethylphenol	NC	NC	NC	NC
2,4-Dinitrophenol	NC	NC	20	0.2
2,4-Dinitrotoluene	NC	NC	NC	NC
2,6-Dinitrotoluene	NC	NC	NC	1
2-Chloronaphthalene	NC	NC	NC	NC
2-Chlorophenol	NC	NC	0.8	NC
2-Methylnaphthalene	NC	NC	NC	36.4
2-Methylphenol	0.33	1,000	NC	0.33
2-Nitroaniline	NC	NC	NC	0.4
2-Nitrophenol	NC	NC	7	0.3
3&4-Methylphenol	NC	NC	NC	NC
3,3'-Dichlorobenzidine	NC	NC	NC	NC
3-Nitroaniline	NC	NC	NC	0.5
4,6-Dinitro-o-cresol	NC	NC	NC	NC
4-Bromophenyl phenyl ether	NC	NC	NC	NC
4-Chloro-3-methyl phenol	NC	NC	NC	NC
4-Chloroaniline	NC	NC	NC	0.22
4-Chlorophenyl phenyl ether	NC	NC	NC	NC
4-Methylphenol	NC	NC	NC	NC
4-Nitroaniline	NC	NC	NC	NC
4-Nitrophenol	NC	NC	7	0.3
Acenaphthene	20	1,000	20	98
Acenaphthylene	100	1,000	NC	107
Acetophenone	NC	NC	NC	NC
Anthracene	100	1,000	NC	1,000
Atrazine	NC	NC	NC	NC
Benzaldehyde	NC	NC	NC	NC
Benzo[a]anthracene	1	11	NC	1
Benzo[a]pyrene	1	1	2.6	22
Benzo[b]fluoranthene	1	11	NC	2
Benzo[g,h,i]perylene	100	1,000	NC	1,000
Benzo[k]fluoranthene	1	110	NC	2
Benzidine	NC	NC	NC	NC
Bis(2-chloroethoxy)methane	NC	NC	NC	NC
Bis(2-chloroethyl)ether	NC	NC	NC	NC
bis(2-Chloroisopropyl)ether	NC	NC	NC	NC
bis(2-Ethylhexyl)phthalate	NC	NC	239	435
Butyl benzyl phthalate	NC	NC	NC	122
Benzyl Alcohol	NC	NC	NC	NC
Caprolactam	NC	NC	NC	NC
Carbazole	NC	NC	NC	NC
Chrysene	1	110	NC	1
Dibenzo[a,h]anthracene	0.33	1.1	NC	1,000
Dibenzofuran	7	1,000	NC	210
Diethyl phthalate	NC	NC	100	7
Dimethyl phthalate	NC	NC	200	27
Di-n-butyl phthalate	NC	NC	0.014	8.1
Di-n-octyl phthalate	NC	NC	NC	120
1,2-Diphenylhydrazine	NC	NC	NC	NC
1,1'-Biphenyl	NC	NC	60	NC
Fluoranthene	100	1,000	NC	1,000
Fluorene	30	1,000	30	386
Hexachlorobenzene	0	12	NC	3
Hexachlorobutadiene	NC	NC	NC	NC
Hexachlorocyclopentadiene	NC	NC	10	NC
Hexachloroethane	NC	NC	NC	NC
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2
Isophorone	NC	NC	NC	4
Naphthalene	12	1,000	NC	12
Nitrobenzene	NC	140	40	0.17
N-Nitroso-di-n-propylamine	NC	NC	NC	NC
N-Nitrosodiphenylamine	NC	NC	20	NC
n-Nitrosodimethylamine	NC	NC	NC	NC
Pentachlorophenol	1	55	0.8	1
Phenanthrene	100	1,000	NC	1,000
Phenol	0.33	1,000	30	0.33
Pyrene	100	1,000	NC	1,000
Total SVOCs	NC	NC	NC	NC

Notes:

mg/kg - milligrams per kilogram

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an app

NC - No Criterion

NA - Not Analyzed

ND (0.010) - Not Detected (Method Detection Limit)

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown i

SCO - Soil Cleanup Objective

* - Recovery or RPD exceeds control limits

**RCH-6 WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS**

					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT-2 WC	RCH-6-ARC/MT-3 WC	RCH-6-ARC/MT(2+3) COMP WC	RCH-6-ARC/MT-5 WC
Sample ID/Depth									
Lab Sample ID					JB1690-1	JB1510-3	JB1510-2	JB1510-4	JB1768-1
Sampling Date					3/14/2012	3/13/2012	03/13/12	3/13/2012	03/15/12
Matrix					Soil	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	15.2	21.4	205	76.9	54

Notes:

NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

**RCH-6 WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS**

Sample ID/Depth					RCH-6-ARC-/MT-7 WC	RCH-6-ARC-/MT-7 WC	RCH-6-ARC/MT(7+9) COMP WC	RCH-6-ARC-/MT-11 WC
Lab Sample ID					JB1319-1	JB1190-1	JB1510-1	JB1033-1
Sampling Date					03/09/12	03/08/12	3/7/2012	3/7/2012
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPHC	NC	NC	NC	NC	2470	112	60.2	68.5

Notes:

NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-6 WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

					RCH-6-ARC-/MT-12WC	RCH-6-ARC-MT (11+12) COMP WC
Sample ID/Depth						
Lab Sample ID					JB1033-2	JB1319-2
Sampling Date					3/7/2012	3/9/2012
Matrix					Soil	Soil
Units					mg/kg	mg/kg
Equivalent Carbon Range	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
TPHC	NC	NC	NC	NC	149	66.4

Notes:

NC - No Criterion
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 TPHC - Total Petroleum Hydrocarbons

RCH-6 TRACT WASTE CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TCLP VOLATILE ORGANIC COMPOUNDS

	RCH-6-ARC/MT(2+3)	RCH-6-ARC/MT(7+9)	RCH-6-ARC/MT(11+12)
TRC Sample No.:	COMP WC	COMP WC	COMP WC
Date Sampled:	03/13/12	03/12/12	03/09/12
Lab Sample No.:	JB1510-4B	JB1510-1B	JB1319-2B
Laboratory:	Accutest	Accutest	Accutest
Matrix:	Soil	Soil	Soil

VOCs	EPA TCLP Regulatory Level (mg/L)	Result	Result	Result
Benzene	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)
2-Butanone (MEK)	200.0	ND (0.015)	ND (0.015)	ND (0.015)
Carbon tetrachloride	0.5	ND (0.00097)	ND (0.00097)	ND (0.00097)
Chlorobenzene	100.0	ND (0.0011)	ND (0.0011)	ND (0.0011)
Chloroform	6.0	ND (0.0010)	ND (0.0010)	ND (0.0010)
1,4-Dichlorobenzene	7.5	ND (0.0013)	ND (0.0013)	ND (0.0013)
1,2-Dichloroethane	0.5	ND (0.00090)	ND (0.00090)	ND (0.00090)
1,1-Dichloroethene	0.7	ND (0.0014)	ND (0.0014)	ND (0.0014)
Tetrachloroethene	0.7	ND (0.0016)	ND (0.0016)	ND (0.0016)
Trichloroethene	0.5	ND (0.0011)	ND (0.0011)	ND (0.0011)
Vinyl chloride	0.2	ND (0.0013)	ND (0.0013)	ND (0.0013)

TCLP: Toxicity Characteristic Leaching Procedure
 All concentrations given in parts per million (ppm)
 NC - No criterion
 J - Value is estimated

**RCH-6 TRACT WASTE CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS**

					RCH-6-ARC/MT-1 WC	RCH-6-ARC/MT-2 WC
Sample ID/Depth					JB1690-1B	40981
Lab Sample ID					3/14/2012	JB1510-3
Sampling Date					Soil	Accutest
Matrix					mg/kg	mg/kg
Units						
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result
1,1,1-Trichloroethane	0.68	1,000	NC	0.68	ND (0.00027)	ND (0.0087)
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)	ND (0.020)
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00049)	ND (0.0088)
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00018)
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00069)	ND (0.00069)
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00049)	ND (0.00030)
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00038)	ND (0.0010)
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.00052)
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00027)	ND (0.0057)
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00031)	ND (0.00026)
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00046)
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00030)	ND (0.00043)
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00054)
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)	ND (0.00064)
1,4-Dioxane	0.1	250	1	0.1	ND (0.066)	ND (0.00082)
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0049)	ND (0.00050)
2-Hexanone	NC	NC	NC	NC	ND (0.0028)	ND (0.0020)
4-Methyl-2-pentanone (MIBK)	NC	NC	NC	1	ND (0.0030)	ND (0.00022)
Acetone	0.05	1,000	2.2	0.05	ND (0.0075)	ND (0.00031)
Acrolein	NC	NC	NC	NC	ND (0.017)	ND (0.00037)
Acrylonitrile	NC	NC	NC	NC	ND (0.0075)	ND (0.00025)
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00022)
Bromochloromethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00042)
Bromodichloromethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00029)
Bromoform	NC	NC	NC	NC	ND (0.00085)	ND (0.00024)
Bromomethane	NC	NC	NC	NC	ND (0.00044)	ND (0.00081)
Carbon disulfide	NC	NC	NC	2.7	ND (0.00022)	ND (0.00043)
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00039)	ND (0.00056)
Chlorobenzene	1	1,000	40	1	ND (0.00036)	ND (0.00035)
Chloroethane	NC	NC	NC	1.9	ND (0.00046)	ND (0.00020)
Chloroform	0.37	700	12	0.37	ND (0.00054)	ND (0.00044)
Chloromethane	NC	NC	NC	NC	ND (0.00070)	ND (0.077)
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00036)	0.00084
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00095)
Cyclohexane	NC	NC	NC	NC	ND (0.00043)	ND (0.00033)
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00018)
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00036)	ND (0.00029)
Ethylbenzene	1	780	NC	1	ND (0.00017)	ND (0.00032)
Freon 113	NC	NC	NC	6	ND (0.00081)	ND (0.00024)
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00015)	ND (0.00035)
m,p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00035)	ND (0.00030)
Methyl acetate	NC	NC	NC	NC	ND (0.0025)	ND (0.00024)
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.0076)
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00026)	ND (0.00024)
Methyl tert butyl ether	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00024)
n-Butylbenzene	12	1,000	NC	12	NA	NA
n-Propylbenzene	3.9	1,000	NC	4	NA	NA
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00025)
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA
sec-Butylbenzene	11	1,000	NC	11	NA	NA
Styrene	NC	NC	300	NC	ND (0.00021)	0.0011
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA
Tetrachloroethene	1.3	300	2	1.3	ND (0.00022)	ND (0.00058)
Toluene	0.7	1,000	36	0.7	ND (0.00043)	ND (0.00045)
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00048)	ND (0.00032)
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)	ND (0.00057)
Trichloroethene	0.47	400	2	0.47	ND (0.00028)	ND (0.00033)
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00064)
Vinyl chloride	0.02	27	NC	0.02	ND (0.00052)	ND (0.00061)
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00021)	0.0016
Total VOCs	NC	NC	NC	NC	ND	0.00092

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

NC - No Criterion

NA - Not Analyzed

ND (0.00027) - Not Detected (Method Detection Limit)

SCO - Soil Cleanup Objective

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown

* - Recovery or RPD exceeds control limits

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	501	445	401	447	
Solids, Percent	NC	NC	NC	NC	67.5	78.5	89.8	76.8	
pH	NC	NC	NC	NC	6.79	7.8	6.97	7.33	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
					Lab Sample ID	JA93504-1	JA93504-2	JA93382-3	JA93382-4
					Sampling Date	12/2/2011	12/2/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	254	251	449	446	
Solids, Percent	NC	NC	NC	NC	84.4	82.2	86	84.3	
pH	NC	NC	NC	NC	7.16	8.41	7.53	8.42	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	449	443	450	452	
Solids, Percent	NC	NC	NC	NC	87.5	87.3	84.6	81.1	
pH	NC	NC	NC	NC	8	8	8.3	8.32	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
					Lab Sample ID	JA93382-1	JA93382-2	JA93246-1	JA93246-2
					Sampling Date	12/1/2011	12/1/2011	11/30/2011	11/30/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	496	452	342	334	
Solids, Percent	NC	NC	NC	NC	86.9	87.9	83.6	86.4	
pH	NC	NC	NC	NC	7.98	8.45	8.07	8.48	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1	JA93099-2	JA93099-5	JA93099-3
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	429	385	388	406	
Solids, Percent	NC	NC	NC	NC	85.8	84.9	85	93.2	
pH	NC	NC	NC	NC	8.25	8.45	8.61	7.53	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

		Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5		
		Lab Sample ID	JA93099-4	JA93029-5	JA93029-6	JA93029-3		
		Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011		
		Matrix	Soil	Soil	Soil	Soil		
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Redox Potential Vs H2	NC	NC	NC	NC	388	243	240	243
Solids, Percent	NC	NC	NC	NC	85	78.9	83.3	86.3
pH	NC	NC	NC	NC	8.52	6.06	6.66	6.01

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
					Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1
					Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	244	245	244	358	
Solids, Percent	NC	NC	NC	NC	82.6	88.3	79.4	82.3	
pH	NC	NC	NC	NC	6.94	7.93	6.9	7.11	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
					Lab Sample ID	JA92420-2	JA92420-7	JA92264-1	JA92264-2
					Sampling Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	370	370	387	383	
Solids, Percent	NC	NC	NC	NC	79.5	83.1	82.5	84.1	
pH	NC	NC	NC	NC	7.06	7.24	6.95	7.08	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR GENERAL CHEMISTRY

					Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
					Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6
					Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
General Chemistry	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Redox Potential Vs H2	NC	NC	NC	NC	414	350	373	359	
Solids, Percent	NC	NC	NC	NC	91.6	88.6	81.6	84.3	
pH	NC	NC	NC	NC	5.86	8.38	6.89	8.12	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	7200	3630	6120	5140	
Antimony	NC	NC	12	NC	2	<2.0	<2.3	<2.0	
Arsenic	13	16	13	16	28.5	3.3	7	5.4	
Barium	350	10,000	433	820	527	<20	48.2	<20	
Beryllium	7.2	2,700	10	47	0.72	0.38	0.47	0.54	
Cadmium	2.5	60	4	7.5	0.65	<0.50	<0.57	<0.50	
Calcium	NC	NC	10000	NC	2460	<500	682	<500	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	33.7	9.3	17.2	12.4	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.63	<0.51	0.62	0.74	
Cobalt	NC	NC	20	NC	5.8	<5.0	<5.7	<5.0	
Copper	50	10,000	50	1,720	182	4.9	34.1	7.3	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	16900	10300	14000	15800	
Lead	63	3,900	63	450	209	3.1	24.6	3.9	
Magnesium	NC	NC	NC	NC	1020	665	903	1090	
Manganese	1,600	10,000	1,600	2,000	271	27	87.6	61.2	
Mercury (Total)	0.18	5.7	0.18	0.73	0.76	<0.041	0.15	<0.043	
Nickel	30	10,000	30	130	24.9	<4.0	10.8	6.3	
Potassium	NC	NC	NC	NC	<1000	1180	<1100	1610	
Selenium	3.9	6,800	3.9	4	2.2	<2.0	<2.3	<2.0	
Silver	2	6,800	2	8.3	0.89	<0.50	<0.57	<0.50	
Sodium	NC	NC	NC	NC	<1000	<1000	<1100	<990	
Thallium	NC	NC	5	NC	1.5	<1.0	<1.1	<0.99	
Vanadium	NC	NC	39	NC	51.5	16	22.5	18.7	
Zinc	109	10,000	109	2,480	107	17	61.9	26.6	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID					RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
Lab Sample ID					JA93504-1	JA93504-2	JA93382-3	JA93382-4
Sampling Date					12/2/2011	12/2/2011	12/1/2011	12/1/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	4950	15900	9190	16000
Antimony	NC	NC	12	NC	<2.4	<2.3	<2.2	<2.3
Arsenic	13	16	13	16	11.6	4	6	3.7
Barium	350	10,000	433	820	<24	180	65.6	215
Beryllium	7.2	2,700	10	47	0.8	1	0.76	1.1
Cadmium	2.5	60	4	7.5	<0.60	<0.58	<0.56	<0.57
Calcium	NC	NC	10000	NC	<600	15000	1210	17200
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	14.3	25.8	18.8	26.7
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	<0.49	<0.47	<0.47
Cobalt	NC	NC	20	NC	7.9	11.3	8.2	11.6
Copper	50	10,000	50	1,720	6.2	18.9	14.7	19.4
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	21100	25400	21000	26000
Lead	63	3,900	63	450	4.4	13.5	14.3	13.7
Magnesium	NC	NC	NC	NC	980	6830	2620	7120
Manganese	1,600	10,000	1,600	2,000	153	535	266	641
Mercury (Total)	0.18	5.7	0.18	0.73	<0.039	<0.040	<0.038	<0.038
Nickel	30	10,000	30	130	5.7	24.9	14.3	30
Potassium	NC	NC	NC	NC	1760	4280	2110	4120
Selenium	3.9	6,800	3.9	4	<2.4	<2.3	<2.2	<2.3
Silver	2	6,800	2	8.3	<0.60	<0.58	<0.56	<0.57
Sodium	NC	NC	NC	NC	<1200	<1200	<1100	<1100
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.1	<1.1
Vanadium	NC	NC	39	NC	26.2	33.2	30.1	36
Zinc	109	10,000	109	2,480	34.6	59.1	50.6	64

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	14000	13300	12000	15800	
Antimony	NC	NC	12	NC	<2.2	<2.3	<2.4	<2.4	
Arsenic	13	16	13	16	5.5	<2.3	5.5	4	
Barium	350	10,000	433	820	93.2	115	141	179	
Beryllium	7.2	2,700	10	47	0.92	1	0.89	1.1	
Cadmium	2.5	60	4	7.5	<0.56	<0.58	<0.59	<0.60	
Calcium	NC	NC	10000	NC	1940	2110	2200	20900	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	27.9	28.2	28.4	25.5	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46	<0.46	<0.47	<0.49	
Cobalt	NC	NC	20	NC	13.9	12.3	9.2	11.6	
Copper	50	10,000	50	1,720	20.7	15.8	39.8	18.3	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	25100	26600	22300	26300	
Lead	63	3,900	63	450	22.4	14.2	39.6	14	
Magnesium	NC	NC	NC	NC	4160	6180	4360	8090	
Manganese	1,600	10,000	1,600	2,000	611	759	431	632	
Mercury (Total)	0.18	5.7	0.18	0.73	0.043	<0.036	0.077	<0.035	
Nickel	30	10,000	30	130	22.1	32.7	25.3	29.5	
Potassium	NC	NC	NC	NC	2720	3160	2640	4320	
Selenium	3.9	6,800	3.9	4	<2.2	<2.3	<2.4	<2.4	
Silver	2	6,800	2	8.3	<0.56	<0.58	<0.59	<0.60	
Sodium	NC	NC	NC	NC	<1100	<1200	<1200	<1200	
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.2	<1.2	
Vanadium	NC	NC	39	NC	38.5	33.5	34.6	36.5	
Zinc	109	10,000	109	2,480	66.6	64.1	101	64.3	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5		
		Lab Sample ID	JA93382-1	JA93382-2	JA93246-1	JA93246-2		
		Sampling Date	12/1/2011	12/1/2011	11/30/2011	11/30/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	13000	15300	8810	11800
Antimony	NC	NC	12	NC	<2.2	<2.3	<2.4	<2.3
Arsenic	13	16	13	16	2.4	3.3	4	2.9
Barium	350	10,000	433	820	94.4	153	109	140
Beryllium	7.2	2,700	10	47	1	1.1	0.91	1.1
Cadmium	2.5	60	4	7.5	<0.55	<0.59	<0.59	<0.57
Calcium	NC	NC	10000	NC	2510	19600	6580	17300
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	28.5	25.7	19.4	20.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.46	<0.46	0.49	<0.46
Cobalt	NC	NC	20	NC	12	11.7	7.3	8.6
Copper	50	10,000	50	1,720	20.8	15.9	26	18.9
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	26700	26100	20100	21900
Lead	63	3,900	63	450	19.8	13.8	35.3	11.6
Magnesium	NC	NC	NC	NC	6310	7150	3940	6720
Manganese	1,600	10,000	1,600	2,000	643	595	425	495
Mercury (Total)	0.18	5.7	0.18	0.73	<0.034	<0.037	0.053	<0.035
Nickel	30	10,000	30	130	31.5	28.7	18.7	22.9
Potassium	NC	NC	NC	NC	3040	4370	1940	3090
Selenium	3.9	6,800	3.9	4	<2.2	<2.3	<2.4	<2.3
Silver	2	6,800	2	8.3	<0.55	<0.59	<0.59	<0.57
Sodium	NC	NC	NC	NC	<1100	<1200	<1200	<1100
Thallium	NC	NC	5	NC	<1.1	<1.2	<1.2	<1.1
Vanadium	NC	NC	39	NC	33.1	37.7	26	26.6
Zinc	109	10,000	109	2,480	69.5	62	122	48.7

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

					Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aluminum	NC	NC	10000	NC	11900	13600	12200	3380	
Antimony	NC	NC	12	NC	<2.4	<2.4	<2.3	<2.1	
Arsenic	13	16	13	16	2.5	3.1	3	6.2	
Barium	350	10,000	433	820	176	185	120	24.8	
Beryllium	7.2	2,700	10	47	1.3	1.4	1.2	0.61	
Cadmium	2.5	60	4	7.5	<0.59	<0.61	<0.57	<0.53	
Calcium	NC	NC	10000	NC	2790	7360	18400	747	
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	132	28.7	22	11.7	
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	<0.47	<0.47	<0.43	
Cobalt	NC	NC	20	NC	10.9	11.2	9.1	5.9	
Copper	50	10,000	50	1,720	15	15.8	15.8	8.4	
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA	
Iron	NC	NC	NC	NC	27300	29600	24200	14300	
Lead	63	3,900	63	450	12.9	14.1	11.6	13	
Magnesium	NC	NC	NC	NC	6680	7580	5850	845	
Manganese	1,600	10,000	1,600	2,000	653	527	588	233	
Mercury (Total)	0.18	5.7	0.18	0.73	<0.036	<0.038	<0.037	0.26	
Nickel	30	10,000	30	130	45.3	30.4	23.4	5.3	
Potassium	NC	NC	NC	NC	2990	3320	3340	1220	
Selenium	3.9	6,800	3.9	4	<2.4	<2.4	<2.3	<2.1	
Silver	2	6,800	2	8.3	0.68	0.81	0.66	<0.53	
Sodium	NC	NC	NC	NC	<1200	<1200	<1100	<1100	
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.1	<1.1	
Vanadium	NC	NC	39	NC	28.8	31.2	28.7	16.9	
Zinc	109	10,000	109	2,480	58.7	65.3	50.4	42.7	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5		
		Lab Sample ID	JA93099-4A	JA93029-5	JA93029-6	JA93029-3		
		Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	14000	5380	13600	8890
Antimony	NC	NC	12	NC	<2.4	<2.0	<2.3	<2.4
Arsenic	13	16	13	16	2.4	8.1	2.8	6.2
Barium	350	10,000	433	820	89.6	<20	183	<24
Beryllium	7.2	2,700	10	47	1.4	0.69	1.4	0.67
Cadmium	2.5	60	4	7.5	<0.59	<0.50	<0.58	<0.60
Calcium	NC	NC	10000	NC	18000	<500	2280	<600
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	26.2	14.4	28.1	17.4
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.47	<0.51	1.4	0.68
Cobalt	NC	NC	20	NC	11.4	<5.0	12.1	<6.0
Copper	50	10,000	50	1,720	16.1	6.8	16.7	9.1
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	28500	18900	28300	15600
Lead	63	3,900	63	450	14	4.8	13.6	11.9
Magnesium	NC	NC	NC	NC	7700	1040	6710	1170
Manganese	1,600	10,000	1,600	2,000	634	111	842	89.1
Mercury (Total)	0.18	5.7	0.18	0.73	<0.036	<0.040	<0.038	<0.038
Nickel	30	10,000	30	130	29.7	4.7	30.6	6.4
Potassium	NC	NC	NC	NC	4030	1610	3440	1440
Selenium	3.9	6,800	3.9	4	<2.4	<2.0	<2.3	<2.4
Silver	2	6,800	2	8.3	0.76	<0.50	<0.58	<0.60
Sodium	NC	NC	NC	NC	<1200	<990	<1200	<1200
Thallium	NC	NC	5	NC	<1.2	<0.99	<1.2	<1.2
Vanadium	NC	NC	39	NC	28.8	23.8	29.3	28.7
Zinc	109	10,000	109	2,480	66	34	65.1	44.2

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3		
		Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1		
		Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	3620	7200	4330	3440
Antimony	NC	NC	12	NC	<2.4	<2.3	<2.0	<2.5
Arsenic	13	16	13	16	5.1	4.2	5.9	9.2
Barium	350	10,000	433	820	<24	41.2	<20	<25
Beryllium	7.2	2,700	10	47	0.67	0.53	0.72	0.47
Cadmium	2.5	60	4	7.5	<0.61	<0.58	<0.50	<0.61
Calcium	NC	NC	10000	NC	<610	1150	<500	<610
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	11.1	12.2	57.9	9.5
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.48	<0.45	<0.50	<0.49
Cobalt	NC	NC	20	NC	<6.1	<5.8	10.6	<6.1
Copper	50	10,000	50	1,720	4.5	12.9	5.5	7
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	14200	11100	15900	12500
Lead	63	3,900	63	450	2.9	19.3	3.5	5.6
Magnesium	NC	NC	NC	NC	748	1340	995	641
Manganese	1,600	10,000	1,600	2,000	356	110	415	42.7
Mercury (Total)	0.18	5.7	0.18	0.73	<0.040	0.043	<0.041	<0.039
Nickel	30	10,000	30	130	<4.8	7.8	45.1	<4.9
Potassium	NC	NC	NC	NC	<1200	<1200	1460	<1200
Selenium	3.9	6,800	3.9	4	<2.4	<2.3	<2.0	<2.5
Silver	2	6,800	2	8.3	<0.61	<0.58	<0.50	<0.61
Sodium	NC	NC	NC	NC	<1200	<1200	<1000	<1200
Thallium	NC	NC	5	NC	<1.2	<1.2	<1.0	<1.2
Vanadium	NC	NC	39	NC	17	18.3	18.4	18.8
Zinc	109	10,000	109	2,480	44.8	41.5	49.6	22.3

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

Sample ID					RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
Lab Sample ID					JA92420-2	JA92420-7	JA92264-1	JA92264-2
Sampling Date					11/17/2011	11/17/2011	11/16/2011	11/16/2011
Matrix					Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	3890	3330	4980	7200
Antimony	NC	NC	12	NC	<2.0	<2.4	<2.3	<2.4
Arsenic	13	16	13	16	5.7	5	4.9	4.3
Barium	350	10,000	433	820	<20	<24	38.5	46.2
Beryllium	7.2	2,700	10	47	0.43	0.4	0.48	0.55
Cadmium	2.5	60	4	7.5	<0.50	<0.60	<0.58	<0.61
Calcium	NC	NC	10000	NC	<500	<600	608	690
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	9.5	9	10.2	14.8
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	0.5	<0.48	<0.48	<0.48
Cobalt	NC	NC	20	NC	<5.0	<6.0	<5.8	7
Copper	50	10,000	50	1,720	10.1	7.5	13.3	14.7
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	12700	11400	15400	17600
Lead	63	3,900	63	450	10.1	6.1	21.4	14.2
Magnesium	NC	NC	NC	NC	718	641	1450	2450
Manganese	1,600	10,000	1,600	2,000	52.4	49.5	197	356
Mercury (Total)	0.18	5.7	0.18	0.73	<0.041	<0.038	<0.037	<0.037
Nickel	30	10,000	30	130	5.7	<4.8	7.9	12.2
Potassium	NC	NC	NC	NC	<1000	<1200	<1200	1580
Selenium	3.9	6,800	3.9	4	<2.0	<2.4	<2.3	<2.4
Silver	2	6,800	2	8.3	<0.50	<0.60	<0.58	<0.61
Sodium	NC	NC	NC	NC	<1000	<1200	<1200	<1200
Thallium	NC	NC	5	NC	<1.0	<1.2	<1.2	<1.2
Vanadium	NC	NC	39	NC	18.2	16	16.4	21.7
Zinc	109	10,000	109	2,480	26.8	20.8	63.7	44

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6		
		Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6		
		Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011		
		Matrix	Soil	Soil	Soil	Soil		
		Units	mg/kg	mg/kg	mg/kg	mg/kg		
METALS	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
Aluminum	NC	NC	10000	NC	4070	13300	4990	11700
Antimony	NC	NC	12	NC	<2.1	<2.2	<2.5	<2.5
Arsenic	13	16	13	16	5.3	2.7	6.1	3.6
Barium	350	10,000	433	820	32.3	115	25.2	103
Beryllium	7.2	2,700	10	47	0.46	1.1	0.59	0.99
Cadmium	2.5	60	4	7.5	<0.52	<0.54	<0.62	<0.62
Calcium	NC	NC	10000	NC	<520	4640	<620	3280
Chromium (Total)	1 ⁽¹⁾	800 ⁽¹⁾	NC	19 ⁽¹⁾	9.3	25.9	11.9	25.3
Chromium (Hexavalent)	1 ⁽¹⁾	800 ⁽¹⁾	1	19 ⁽¹⁾	<0.44	<0.45	<0.49	<0.47
Cobalt	NC	NC	20	NC	5.9	12.4	<6.2	11
Copper	50	10,000	50	1,720	21.7	16.7	7.7	15.3
Cyanide (Total)	27	10,000	NC	40	NA	NA	NA	NA
Iron	NC	NC	NC	NC	13200	27000	13700	26100
Lead	63	3,900	63	450	16	13.7	4	12.9
Magnesium	NC	NC	NC	NC	973	7490	1020	5750
Manganese	1,600	10,000	1,600	2,000	228	580	86.3	612
Mercury (Total)	0.18	5.7	0.18	0.73	0.04	<0.034	<0.041	<0.037
Nickel	30	10,000	30	130	7.9	27.4	6.3	24.6
Potassium	NC	NC	NC	NC	<1000	3350	1310	2860
Selenium	3.9	6,800	3.9	4	<2.1	<2.2	<2.5	<2.5
Silver	2	6,800	2	8.3	<0.52	<0.54	<0.62	<0.62
Sodium	NC	NC	NC	NC	<1000	<1100	<1200	<1200
Thallium	NC	NC	5	NC	<1.0	<1.1	<1.2	<1.2
Vanadium	NC	NC	39	NC	14.6	27.2	17.6	27.6
Zinc	109	10,000	109	2,480	52.5	63.8	30.1	57.9

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - Hexavalent chromium SCO

U - Analyte was not detected.

NC - No Criterion

Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.

SCO - Soil Cleanup Objective

NA - Not analyzed

<0.47 - Less than the Method Detection Limit

Hexavalent chromium was re-analyzed due to matrix spike failure of the recovery criteria.

The value of the re-analyzed sample is identified by the parenthesis.

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.011)	ND (0.0097)	ND (0.0085)	ND (0.010)	
Aroclor 1221	NC	NC	NC	NC	ND (0.026)	ND (0.023)	ND (0.020)	ND (0.023)	
Aroclor 1232	NC	NC	NC	NC	ND (0.022)	ND (0.019)	ND (0.017)	ND (0.019)	
Aroclor 1242	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.010)	ND (0.012)	
Aroclor 1248	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.010)	ND (0.012)	
Aroclor 1254	NC	NC	NC	NC	ND (0.020)	ND (0.018)	ND (0.015)	ND (0.018)	
Aroclor 1260	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.011)	ND (0.013)	
Aroclor 1262	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.0096)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.014)	ND (0.012)	ND (0.010)	ND (0.012)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
					Lab Sample ID	JA93504-1	JA93504-2	JA93382-3	JA93382-4
					Sampling Date	12/2/2011	12/2/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0091)	ND (0.0087)	ND (0.0091)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.020)	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.017)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0085)	ND (0.0087)	ND (0.0090)	ND (0.0094)	
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.022)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.012)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.017)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.0097)	ND (0.0098)	ND (0.011)	ND (0.012)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
					Lab Sample ID	JA93382-1	JA93382-2	JA93246-1	JA93246-2
					Sampling Date	12/1/2011	12/1/2011	11/30/2011	11/30/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0087)	ND (0.0086)	ND (0.0091)	ND (0.0089)	
Aroclor 1221	NC	NC	NC	NC	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.020)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.018)	ND (0.017)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.010)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.0099)	ND (0.0098)	ND (0.011)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	Result
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0090)	ND (0.0090)	ND (0.0082)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.019)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.018)	ND (0.018)	ND (0.016)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.0096)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	0.0547	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0093)	
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	0.05	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5
					Lab Sample ID	JA93099-4A	JA93029-5	JA93029-6	JA93029-3
					Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0089)	ND (0.0097)	ND (0.0092)	ND (0.0089)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.017)	ND (0.019)	ND (0.018)	ND (0.017)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)	
Aroclor 1254	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.017)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.010)	ND (0.012)	ND (0.011)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
					Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1
					Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0093)	ND (0.0087)	ND (0.0096)	ND (0.0093)	
Aroclor 1221	NC	NC	NC	NC	ND (0.021)	ND (0.020)	ND (0.022)	ND (0.022)	
Aroclor 1232	NC	NC	NC	NC	ND (0.018)	ND (0.017)	ND (0.019)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.016)	ND (0.017)	ND (0.017)	
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)	
Aroclor 1262	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.0098)	ND (0.011)	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
					Lab Sample ID	JA92420-2	JA92420-7	JA92264-1	JA92264-2
					Sampling Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0096)	ND (0.0092)	ND (0.0093)	ND (0.0091)	
Aroclor 1221	NC	NC	NC	NC	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.019)	ND (0.018)	ND (0.018)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.010)	ND (0.010)	
Aroclor 1268	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR POLYCHLORINATED BIPHENYLS

					Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
					Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6
					Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
Aroclor 1016	NC	NC	NC	NC	ND (0.0083)	ND (0.0086)	ND (0.0094)	ND (0.0091)	
Aroclor 1221	NC	NC	NC	NC	ND (0.019)	ND (0.020)	ND (0.022)	ND (0.021)	
Aroclor 1232	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.018)	ND (0.018)	
Aroclor 1242	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	
Aroclor 1248	NC	NC	NC	NC	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.011)	
Aroclor 1254	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.017)	ND (0.016)	
Aroclor 1260	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Aroclor 1262	NC	NC	NC	NC	ND (0.0094)	ND (0.0098)	ND (0.011)	ND (0.010)	
Aroclor 1268	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	
Total PCBs	0.1	25	1	3.2	ND	ND	ND	ND	

Notes:
 mg/kg - milligrams per kilogram
 NC - No Criterion
 SCO - Soil Cleanup Objective
 ND (0.0089) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0047	ND (0.00038)	0.0021	ND (0.00039)	
4,4'-DDE	0.0033	120	0.0033	17	0.007	ND (0.00044)	0.0018	ND (0.00045)	
4,4'-DDT	0.0033	94	0.0033	136	0.0107	ND (0.00055)	0.0034	ND (0.00056)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00043)	ND (0.00037)	ND (0.00033)	ND (0.00038)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00065)	ND (0.00056)	ND (0.00049)	ND (0.00057)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00057)	ND (0.00049)	ND (0.00043)	ND (0.00050)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00061)	ND (0.00053)	ND (0.00046)	ND (0.00054)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00045)	ND (0.00038)	ND (0.00033)	ND (0.00039)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00051)	ND (0.00044)	ND (0.00038)	ND (0.00045)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00067)	ND (0.00058)	ND (0.00051)	ND (0.00059)	
Endosulfan I	2.4	920	NC	102	ND (0.00042)	ND (0.00036)	ND (0.00032)	ND (0.00037)	
Endosulfan II	2.4	920	NC	102	ND (0.00057)	ND (0.00049)	ND (0.00043)	ND (0.00050)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00079)	ND (0.00068)	ND (0.00059)	ND (0.00069)	
Endrin	0.014	410	0.014	0.06	ND (0.00045)	ND (0.00038)	ND (0.00033)	ND (0.00039)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00083)	ND (0.00071)	ND (0.00062)	ND (0.00073)	
Endrin ketone	NC	NC	NC	NC	ND (0.00057)	ND (0.00049)	ND (0.00043)	ND (0.00050)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00040)	ND (0.00034)	ND (0.00030)	ND (0.00035)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00053)	ND (0.00046)	ND (0.00040)	ND (0.00047)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00043)	ND (0.00037)	ND (0.00032)	ND (0.00038)	
Methoxychlor	NC	NC	1.2	900	ND (0.00062)	ND (0.00053)	ND (0.00046)	ND (0.00054)	
Toxaphene	NC	NC	NC	NC	ND (0.011)	ND (0.0094)	ND (0.0083)	ND (0.0097)	
2,4-D	NC	NC	NC	0.5	ND (0.0061)	ND (0.0053)	ND (0.0046)	ND (0.0054)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00074)	ND (0.00064)	ND (0.00056)	ND (0.00065)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0019)	ND (0.0016)	ND (0.0014)	ND (0.0016)	
Dalapon	NC	NC	NC	NC	ND (0.0015)	ND (0.0013)	ND (0.0011)	ND (0.0013)	
Dicamba	NC	NC	NC	NC	ND (0.00086)	ND (0.00074)	ND (0.00065)	ND (0.00076)	
Dichloroprop	NC	NC	NC	NC	ND (0.0050)	ND (0.0043)	ND (0.0038)	ND (0.0044)	
Dinoseb	NC	NC	NC	NC	ND (0.0040)	ND (0.0034)	ND (0.0030)	ND (0.0035)	
MCPA	NC	NC	NC	NC	ND (0.67)	ND (0.58)	ND (0.50)	ND (0.59)	
MCPP	NC	NC	NC	NC	ND (0.35)	ND (0.30)	ND (0.26)	ND (0.30)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.072)	ND (0.062)	ND (0.051)	ND (0.061)	
2,4-DB	NC	NC	NC	NC	0.02	ND	ND (0.011)	ND (0.013)	

Notes:
mg/kg - milligrams per kilogram
NC - No Criterion
NA - Not Analyzed
ND (0.00034) - Not Detected (Method Detection Limit)
Shading indicates result above SCO. Color representing least stringent SCO exceeded is shown unless otherwise noted.
SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
					Lab Sample ID	JA93504-1	JA93504-2	JA93382-3	JA93382-4
					Sampling Date	12/2/2011	12/2/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00036)	ND (0.00034)	ND (0.00036)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	ND (0.00041)	ND (0.00040)	ND (0.00041)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	ND (0.00051)	0.0041	ND (0.00051)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00035)	ND (0.00034)	ND (0.00035)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00052)	ND (0.00050)	ND (0.00052)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00046)	ND (0.00044)	ND (0.00045)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00049)	ND (0.00047)	ND (0.00049)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00036)	ND (0.00034)	ND (0.00036)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00041)	ND (0.00039)	ND (0.00041)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00054)	ND (0.00052)	ND (0.00054)	
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00034)	ND (0.00033)	ND (0.00034)	
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00046)	ND (0.00044)	ND (0.00046)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00063)	ND (0.00061)	ND (0.00063)	
Endrin	0.014	410	0.014	0.06	ND (0.00035)	ND (0.00036)	ND (0.00034)	ND (0.00036)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00066)	ND (0.00064)	ND (0.00066)	
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00045)	ND (0.00044)	ND (0.00045)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00031)	ND (0.00032)	ND (0.00031)	ND (0.00032)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00043)	ND (0.00041)	ND (0.00043)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00034)	ND (0.00033)	ND (0.00034)	
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00049)	ND (0.00047)	ND (0.00049)	
Toxaphene	NC	NC	NC	NC	ND (0.00086)	ND (0.00088)	ND (0.00085)	ND (0.00088)	
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0050)	ND (0.0048)	ND (0.0049)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00061)	ND (0.00058)	ND (0.00059)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0015)	
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0011)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00071)	ND (0.00068)	ND (0.00069)	
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0041)	ND (0.0039)	ND (0.0040)	
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0033)	ND (0.0031)	ND (0.0032)	
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.55)	ND (0.52)	ND (0.54)	
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.28)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0012)	ND (0.0011)	ND (0.0011)	
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	

Notes:
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SCO - Soil Cleanup Objective

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	0.0023	ND (0.00034)	0.0023	ND (0.00037)	
4,4'-DDE	0.0033	120	0.0033	17	0.0042	ND (0.00039)	0.0029	ND (0.00043)	
4,4'-DDT	0.0033	94	0.0033	136	0.0047	ND (0.00049)	0.0025	ND (0.00053)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00033)	ND (0.00033)	ND (0.00035)	ND (0.00036)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00049)	ND (0.00050)	ND (0.00052)	ND (0.00054)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00043)	ND (0.00043)	ND (0.00045)	ND (0.00047)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00046)	ND (0.00047)	ND (0.00049)	ND (0.00051)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00034)	ND (0.00036)	ND (0.00037)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00038)	ND (0.00039)	ND (0.00041)	ND (0.00042)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00051)	ND (0.00052)	ND (0.00054)	ND (0.00056)	
Endosulfan I	2.4	920	NC	102	ND (0.00032)	ND (0.00032)	ND (0.00034)	ND (0.00035)	
Endosulfan II	2.4	920	NC	102	ND (0.00043)	ND (0.00044)	ND (0.00046)	ND (0.00048)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00059)	ND (0.00060)	ND (0.00063)	ND (0.00066)	
Endrin	0.014	410	0.014	0.06	ND (0.00034)	ND (0.00034)	ND (0.00036)	ND (0.00037)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00062)	ND (0.00063)	ND (0.00066)	ND (0.00069)	
Endrin ketone	NC	NC	NC	NC	ND (0.00043)	ND (0.00043)	ND (0.00045)	ND (0.00047)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00030)	ND (0.00030)	ND (0.00032)	ND (0.00033)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00040)	ND (0.00041)	ND (0.00043)	ND (0.00044)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00032)	ND (0.00033)	ND (0.00034)	ND (0.00036)	
Methoxychlor	NC	NC	1.2	900	ND (0.00046)	ND (0.00047)	ND (0.00049)	ND (0.00051)	
Toxaphene	NC	NC	NC	NC	ND (0.0083)	ND (0.0084)	ND (0.0088)	ND (0.0091)	
2,4-D	NC	NC	NC	0.5	ND (0.0047)	ND (0.0047)	ND (0.0049)	ND (0.0051)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00057)	ND (0.00057)	ND (0.00059)	ND (0.00062)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)	ND (0.0015)	ND (0.0016)	
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.00067)	ND (0.00067)	ND (0.00069)	ND (0.00072)	
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0039)	ND (0.0040)	ND (0.0042)	
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0031)	ND (0.0032)	ND (0.0033)	
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.52)	ND (0.53)	ND (0.56)	
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.29)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0012)	
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	

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STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

	Sample ID				RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
PESTICIDES								
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00034)	ND (0.00034)	0.0023	ND (0.00035)
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	ND (0.00039)	ND (0.00042)	ND (0.00040)
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00049)	ND (0.00049)	ND (0.00052)	ND (0.00050)
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00033)	ND (0.00035)	ND (0.00034)
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00050)	ND (0.00050)	ND (0.00053)	ND (0.00051)
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00044)	ND (0.00043)	ND (0.00046)	ND (0.00044)
beta-BHC	0.036	14	0.6	0.09	ND (0.00047)	ND (0.00047)	ND (0.00049)	ND (0.00048)
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA
gamma-Chlordane	NC	NC	NC	14	ND (0.00034)	ND (0.00034)	ND (0.00036)	ND (0.00035)
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00039)	ND (0.00039)	ND (0.00041)	ND (0.00040)
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00052)	ND (0.00051)	ND (0.00054)	ND (0.00053)
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00032)	ND (0.00034)	ND (0.00033)
Endosulfan II	2.4	920	NC	102	ND (0.00044)	ND (0.00044)	ND (0.00046)	ND (0.00045)
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00061)	ND (0.00060)	ND (0.00064)	ND (0.00062)
Endrin	0.014	410	0.014	0.06	ND (0.00034)	ND (0.00034)	ND (0.00036)	ND (0.00035)
Endrin aldehyde	NC	NC	NC	NC	ND (0.00064)	ND (0.00063)	ND (0.00067)	ND (0.00065)
Endrin ketone	NC	NC	NC	NC	ND (0.00044)	ND (0.00043)	ND (0.00046)	ND (0.00044)
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00031)	ND (0.00030)	ND (0.00032)	ND (0.00031)
Heptachlor	0.042	29	0.14	0.38	ND (0.00041)	ND (0.00041)	ND (0.00043)	ND (0.00042)
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00033)	ND (0.00033)	ND (0.00035)	ND (0.00034)
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00047)	ND (0.00050)	ND (0.00048)
Toxaphene	NC	NC	NC	NC	ND (0.00085)	ND (0.00084)	ND (0.00089)	ND (0.00086)
2,4-D	NC	NC	NC	0.5	ND (0.0048)	ND (0.0047)	ND (0.0050)	ND (0.0048)
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00057)	ND (0.00060)	ND (0.00058)
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)	ND (0.0015)	ND (0.0015)
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0011)
Dicamba	NC	NC	NC	NC	ND (0.00067)	ND (0.00066)	ND (0.00070)	ND (0.00067)
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0038)	ND (0.0040)	ND (0.0039)
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0031)	ND (0.0032)	ND (0.0031)
MCPA	NC	NC	NC	NC	ND (0.52)	ND (0.51)	ND (0.54)	ND (0.52)
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)
Pentachlorophenol	0.8	55	0.8	0.8	0.0044	ND (0.0011)	ND (0.0012)	ND (0.0011)
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)

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STATEN ISLAND, NEW YORK
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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00032)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	ND (0.00041)	ND (0.00041)	ND (0.00037)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	ND (0.00051)	ND (0.00051)	ND (0.00046)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00035)	ND (0.00035)	ND (0.00031)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00052)	ND (0.00052)	ND (0.00047)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00045)	ND (0.00045)	ND (0.00041)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00044)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00032)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00040)	ND (0.00040)	ND (0.00037)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00054)	ND (0.00054)	ND (0.00049)	
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00034)	ND (0.00033)	ND (0.00031)	
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00046)	ND (0.00046)	ND (0.00042)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00063)	ND (0.00063)	ND (0.00057)	
Endrin	0.014	410	0.014	0.06	ND (0.00035)	ND (0.00035)	ND (0.00035)	ND (0.00032)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00066)	ND (0.00066)	ND (0.00060)	
Endrin ketone	NC	NC	NC	NC	ND (0.00045)	ND (0.00045)	ND (0.00045)	ND (0.00041)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00031)	ND (0.00032)	ND (0.00032)	ND (0.00029)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00042)	ND (0.00042)	ND (0.00039)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00034)	ND (0.00034)	ND (0.00031)	
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00045)	
Toxaphene	NC	NC	NC	NC	ND (0.00086)	ND (0.00087)	ND (0.00087)	ND (0.00080)	
2,4-D	NC	NC	NC	0.5	ND (0.00048)	ND (0.00049)	ND (0.00049)	ND (0.00044)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00058)	ND (0.00059)	ND (0.00059)	ND (0.00054)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.0013)	
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0012)	ND (0.0012)	ND (0.0011)	
Dicamba	NC	NC	NC	NC	ND (0.00068)	ND (0.00069)	ND (0.00069)	ND (0.00063)	
Dichloroprop	NC	NC	NC	NC	ND (0.0039)	ND (0.0040)	ND (0.0040)	ND (0.0036)	
Dinoseb	NC	NC	NC	NC	ND (0.0031)	ND (0.0032)	ND (0.0032)	ND (0.0029)	
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.48)	
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.25)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0011)	ND (0.0010)	
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.010)	

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STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5
					Lab Sample ID	JA93099-4A	JA93029-5	JA93029-6	JA93029-3
					Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00035)	ND (0.00038)	ND (0.00036)	ND (0.00035)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00040)	ND (0.00044)	ND (0.00042)	ND (0.00040)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00050)	ND (0.00055)	ND (0.00052)	ND (0.00050)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00034)	ND (0.00037)	ND (0.00035)	ND (0.00034)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00051)	ND (0.00056)	ND (0.00053)	ND (0.00051)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00045)	ND (0.00049)	ND (0.00046)	ND (0.00044)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00048)	ND (0.00052)	ND (0.00050)	ND (0.00048)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00035)	ND (0.00038)	ND (0.00036)	ND (0.00035)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00040)	ND (0.00044)	ND (0.00041)	ND (0.00040)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00053)	ND (0.00058)	ND (0.00055)	ND (0.00053)	
Endosulfan I	2.4	920	NC	102	ND (0.00033)	ND (0.00036)	ND (0.00034)	ND (0.00033)	
Endosulfan II	2.4	920	NC	102	ND (0.00045)	ND (0.00049)	ND (0.00047)	ND (0.00045)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00062)	ND (0.00067)	ND (0.00064)	ND (0.00062)	
Endrin	0.014	410	0.014	0.06	ND (0.00035)	ND (0.00038)	ND (0.00036)	ND (0.00035)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00065)	ND (0.00071)	ND (0.00067)	ND (0.00065)	
Endrin ketone	NC	NC	NC	NC	ND (0.00044)	ND (0.00048)	ND (0.00046)	ND (0.00044)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00031)	ND (0.00034)	ND (0.00032)	ND (0.00031)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00042)	ND (0.00046)	ND (0.00043)	ND (0.00042)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00034)	ND (0.00037)	ND (0.00035)	ND (0.00034)	
Methoxychlor	NC	NC	1.2	900	ND (0.00048)	ND (0.00053)	ND (0.00050)	ND (0.00048)	
Toxaphene	NC	NC	NC	NC	ND (0.00086)	ND (0.00094)	ND (0.00089)	ND (0.00086)	
2,4-D	NC	NC	NC	0.5	ND (0.0049)	ND (0.0053)	ND (0.0050)	ND (0.0048)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00059)	ND (0.00063)	ND (0.00060)	ND (0.00058)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0016)	ND (0.0015)	ND (0.0015)	
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0011)	
Dicamba	NC	NC	NC	NC	ND (0.00069)	ND (0.00074)	ND (0.00070)	ND (0.00068)	
Dichloroprop	NC	NC	NC	NC	ND (0.0040)	ND (0.0043)	ND (0.0040)	ND (0.0039)	
Dinoseb	NC	NC	NC	NC	ND (0.0032)	ND (0.0034)	ND (0.0032)	ND (0.0031)	
MCPA	NC	NC	NC	NC	ND (0.53)	ND (0.57)	ND (0.54)	ND (0.52)	
MCPP	NC	NC	NC	NC	ND (0.27)	ND (0.30)	ND (0.28)	ND (0.27)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0012)	ND (0.0012)	ND (0.0011)	
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	

Notes:
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RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR PESTICIDES AND HERBICIDES

					Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
					Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1
					Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00036)	ND (0.00034)	ND (0.00038)	ND (0.00037)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00042)	ND (0.00039)	ND (0.00044)	ND (0.00042)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00052)	ND (0.00049)	ND (0.00054)	ND (0.00052)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00036)	ND (0.00033)	ND (0.00037)	ND (0.00036)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00053)	ND (0.00050)	ND (0.00055)	ND (0.00054)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00046)	ND (0.00043)	ND (0.00048)	ND (0.00047)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00050)	ND (0.00047)	ND (0.00052)	ND (0.00050)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00036)	ND (0.00034)	ND (0.00038)	ND (0.00037)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00042)	ND (0.00039)	ND (0.00043)	ND (0.00042)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00055)	ND (0.00052)	ND (0.00057)	ND (0.00055)	
Endosulfan I	2.4	920	NC	102	ND (0.00034)	ND (0.00032)	ND (0.00036)	ND (0.00035)	
Endosulfan II	2.4	920	NC	102	ND (0.00047)	ND (0.00044)	ND (0.00049)	ND (0.00047)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00064)	ND (0.00060)	ND (0.00067)	ND (0.00065)	
Endrin	0.014	410	0.014	0.06	ND (0.00036)	ND (0.00034)	ND (0.00038)	ND (0.00037)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00068)	ND (0.00063)	ND (0.00070)	ND (0.00068)	
Endrin ketone	NC	NC	NC	NC	ND (0.00046)	ND (0.00043)	ND (0.00048)	ND (0.00046)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00032)	ND (0.00030)	ND (0.00034)	ND (0.00033)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00044)	ND (0.00041)	ND (0.00045)	ND (0.00044)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00035)	ND (0.00033)	ND (0.00037)	ND (0.00035)	
Methoxychlor	NC	NC	1.2	900	ND (0.00050)	ND (0.00047)	ND (0.00052)	ND (0.00050)	
Toxaphene	NC	NC	NC	NC	ND (0.00090)	ND (0.00084)	ND (0.00093)	ND (0.00090)	
2,4-D	NC	NC	NC	0.5	ND (0.00050)	ND (0.00047)	ND (0.00052)	ND (0.00050)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00061)	ND (0.00057)	ND (0.00063)	ND (0.00061)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0015)	ND (0.0014)	ND (0.0016)	ND (0.0015)	
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.00071)	ND (0.00066)	ND (0.00073)	ND (0.00071)	
Dichloroprop	NC	NC	NC	NC	ND (0.0041)	ND (0.0038)	ND (0.0042)	ND (0.0041)	
Dinoseb	NC	NC	NC	NC	ND (0.0033)	ND (0.0030)	ND (0.0034)	ND (0.0033)	
MCPA	NC	NC	NC	NC	ND (0.55)	ND (0.51)	ND (0.57)	ND (0.55)	
MCPP	NC	NC	NC	NC	ND (0.28)	ND (0.26)	ND (0.29)	ND (0.28)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0012)	
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.012)	

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STATEN ISLAND, NEW YORK
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					Sample ID	RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
					Lab Sample ID	JA92420-2	JA92420-7	JA92264-1	JA92264-2
					Sampling Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00038)	ND (0.00036)	0.0035	ND (0.00036)	
4,4'-DDE	0.0033	120	0.0033	17	0.0047	ND (0.00042)	0.002	ND (0.00041)	
4,4'-DDT	0.0033	94	0.0033	136	0.0024	ND (0.00052)	ND (0.00052)	ND (0.00051)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00037)	ND (0.00035)	ND (0.00036)	ND (0.00035)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00055)	ND (0.00053)	ND (0.00053)	ND (0.00052)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00048)	ND (0.00052)	ND (0.00046)	ND (0.00046)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00052)	ND (0.00050)	ND (0.00050)	ND (0.00049)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00038)	ND (0.00036)	ND (0.00036)	ND (0.00036)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00043)	ND (0.00041)	ND (0.00042)	ND (0.00041)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00057)	ND (0.00055)	ND (0.00055)	ND (0.00054)	
Endosulfan I	2.4	920	NC	102	ND (0.00036)	ND (0.00034)	ND (0.00035)	ND (0.00034)	
Endosulfan II	2.4	920	NC	102	ND (0.00049)	ND (0.00047)	ND (0.00047)	ND (0.00046)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00067)	ND (0.00064)	ND (0.00065)	ND (0.00063)	
Endrin	0.014	410	0.014	0.06	ND (0.00038)	ND (0.00036)	ND (0.00036)	ND (0.00036)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00070)	ND (0.00067)	ND (0.00068)	ND (0.00066)	
Endrin ketone	NC	NC	NC	NC	ND (0.00048)	ND (0.00046)	ND (0.00046)	ND (0.00045)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00034)	ND (0.00032)	ND (0.00033)	ND (0.00032)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00045)	ND (0.00043)	ND (0.00044)	ND (0.00043)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00036)	ND (0.00035)	ND (0.00035)	ND (0.00034)	
Methoxychlor	NC	NC	1.2	900	ND (0.00052)	ND (0.00050)	ND (0.00050)	ND (0.00049)	
Toxaphene	NC	NC	NC	NC	ND (0.00093)	ND (0.00089)	ND (0.00090)	ND (0.00088)	
2,4-D	NC	NC	NC	0.5	ND (0.00052)	ND (0.00050)	ND (0.00050)	ND (0.00049)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00063)	ND (0.00060)	ND (0.00061)	ND (0.00059)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0016)	ND (0.0015)	ND (0.0015)	ND (0.0015)	
Dalapon	NC	NC	NC	NC	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.00073)	ND (0.00070)	ND (0.00071)	ND (0.00069)	
Dichloroprop	NC	NC	NC	NC	ND (0.0042)	ND (0.0041)	ND (0.0041)	ND (0.0040)	
Dinoseb	NC	NC	NC	NC	ND (0.0034)	ND (0.0032)	ND (0.0033)	ND (0.0032)	
MCPA	NC	NC	NC	NC	ND (0.57)	ND (0.54)	ND (0.55)	ND (0.54)	
MCPP	NC	NC	NC	NC	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0012)	ND (0.0012)	ND (0.0012)	ND (0.0011)	
2,4-DB	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	

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STATEN ISLAND, NEW YORK
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					Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
					Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6
					Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
PESTICIDES	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
4,4'-DDD	0.0033	0.18	0.0033	14	ND (0.00033)	ND (0.00034)	ND (0.00037)	ND (0.00036)	
4,4'-DDE	0.0033	120	0.0033	17	ND (0.00038)	ND (0.00039)	ND (0.00043)	ND (0.00041)	
4,4'-DDT	0.0033	94	0.0033	136	ND (0.00047)	ND (0.00049)	ND (0.00053)	ND (0.00051)	
Aldrin	0.005	1.4	0.14	0.19	ND (0.00032)	ND (0.00033)	ND (0.00036)	ND (0.00035)	
alpha-BHC	0.02	6.8	0.04	0.02	ND (0.00048)	ND (0.00050)	ND (0.00054)	ND (0.00052)	
alpha-Chlordane	0.094	47	1.3	2.9	ND (0.00042)	ND (0.00043)	ND (0.00047)	ND (0.00045)	
beta-BHC	0.036	14	0.6	0.09	ND (0.00045)	ND (0.00047)	ND (0.00051)	ND (0.00049)	
Chlordane	NC	NC	NC	NC	NA	NA	NA	NA	
gamma-Chlordane	NC	NC	NC	14	ND (0.00033)	ND (0.00034)	ND (0.00037)	ND (0.00036)	
delta-BHC	0.04	1,000	0.04	0.25	ND (0.00038)	ND (0.00039)	ND (0.00042)	ND (0.00041)	
Dieldrin	0.005	2.8	0.006	0.1	ND (0.00050)	ND (0.00051)	ND (0.00056)	ND (0.00054)	
Endosulfan I	2.4	920	NC	102	ND (0.00031)	ND (0.00032)	ND (0.00035)	ND (0.00034)	
Endosulfan II	2.4	920	NC	102	ND (0.00042)	ND (0.00044)	ND (0.00048)	ND (0.00046)	
Endosulfan sulfate	2.4	920	NC	1,000	ND (0.00058)	ND (0.00060)	ND (0.00065)	ND (0.00063)	
Endrin	0.014	410	0.014	0.06	ND (0.00033)	ND (0.00034)	ND (0.00037)	ND (0.00036)	
Endrin aldehyde	NC	NC	NC	NC	ND (0.00061)	ND (0.00063)	ND (0.00068)	ND (0.00066)	
Endrin ketone	NC	NC	NC	NC	ND (0.00042)	ND (0.00043)	ND (0.00047)	ND (0.00045)	
gamma-BHC (Lindane)	0.100	23	6	0.1	ND (0.00029)	ND (0.00030)	ND (0.00033)	ND (0.00032)	
Heptachlor	0.042	29	0.14	0.38	ND (0.00039)	ND (0.00041)	ND (0.00044)	ND (0.00043)	
Heptachlor epoxide	NC	NC	NC	0.02	ND (0.00032)	ND (0.00033)	ND (0.00036)	ND (0.00034)	
Methoxychlor	NC	NC	1.2	900	ND (0.00045)	ND (0.00047)	ND (0.00051)	ND (0.00049)	
Toxaphene	NC	NC	NC	NC	ND (0.00081)	ND (0.00084)	ND (0.00091)	ND (0.00088)	
2,4-D	NC	NC	NC	0.5	ND (0.0045)	ND (0.0047)	ND (0.0051)	ND (0.0049)	
2,4,5-TP (Silvex)	3.8	1,000	NC	3.8	ND (0.00055)	ND (0.00056)	ND (0.00061)	ND (0.00059)	
2,4,5-T	NC	NC	NC	1.9	ND (0.0014)	ND (0.0014)	ND (0.0015)	ND (0.0015)	
Dalapon	NC	NC	NC	NC	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0012)	
Dicamba	NC	NC	NC	NC	ND (0.00064)	ND (0.00066)	ND (0.00071)	ND (0.00069)	
Dichloroprop	NC	NC	NC	NC	ND (0.0037)	ND (0.0038)	ND (0.0041)	ND (0.0040)	
Dinoseb	NC	NC	NC	NC	ND (0.0029)	ND (0.0030)	ND (0.0033)	ND (0.0032)	
MCPA	NC	NC	NC	NC	ND (0.49)	ND (0.51)	ND (0.55)	ND (0.54)	
MCPP	NC	NC	NC	NC	ND (0.25)	ND (0.26)	ND (0.29)	ND (0.28)	
Pentachlorophenol	0.8	55	0.8	0.8	ND (0.0011)	ND (0.0011)	ND (0.0012)	ND (0.0011)	
2,4-DB	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	

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STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
Result					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.0098)	ND (0.011)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.044)	ND (0.037)	ND (0.033)	ND (0.038)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.049)	ND (0.042)	ND (0.037)	ND (0.043)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.040)	ND (0.034)	ND (0.030)	ND (0.035)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.068)	ND (0.059)	ND (0.051)	ND (0.060)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.071)	ND (0.061)	ND (0.053)	ND (0.063)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.052)	ND (0.044)	ND (0.039)	ND (0.045)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.018)	ND (0.016)	ND (0.014)	ND (0.016)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.016)	ND (0.014)	ND (0.012)	ND (0.014)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.0099)	ND (0.012)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.043)	ND (0.037)	ND (0.032)	ND (0.038)	
2-Methylnaphthalene	NC	NC	36.4	NC	ND (0.024)	0.0518	J 0.0550	J 0.0585	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.048)	ND (0.041)	ND (0.036)	ND (0.042)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.019)	ND (0.016)	ND (0.014)	ND (0.016)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.045)	ND (0.039)	ND (0.034)	ND (0.039)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.054)	ND (0.046)	ND (0.040)	ND (0.047)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.011)	ND (0.0092)	ND (0.0081)	ND (0.0094)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.017)	ND (0.015)	ND (0.013)	ND (0.015)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.052)	ND (0.044)	ND (0.039)	ND (0.045)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.015)	ND (0.013)	ND (0.012)	ND (0.014)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.036)	ND (0.032)	ND (0.037)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.014)	ND (0.012)	ND (0.010)	ND (0.012)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.0096)	ND (0.011)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.017)	ND (0.014)	ND (0.012)	ND (0.015)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.072)	ND (0.062)	ND (0.054)	ND (0.063)	
Acenaphthene	20	1,000	20	98	ND (0.012)	ND (0.011)	ND (0.0092)	ND (0.011)	
Acenaphthylene	100	1,000	NC	107	0.0343	J ND (0.012)	ND (0.010)	ND (0.012)	
Acetophenone	NC	NC	NC	NC	ND (0.0074)	ND (0.0064)	ND (0.0056)	ND (0.0065)	
Anthracene	100	1,000	NC	1,000	0.0416	J ND (0.013)	ND (0.011)	ND (0.013)	
Atrazine	NC	NC	NC	NC	ND (0.0083)	ND (0.0072)	ND (0.0063)	ND (0.0073)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0097)	ND (0.0084)	ND (0.0073)	ND (0.0086)	
Benzo[a]anthracene	1	11	NC	1	0.4720	ND (0.012)	0.0785	ND (0.012)	
Benzo[a]pyrene	1	1	2.6	22	0.3760	ND (0.011)	0.0621	ND (0.011)	
Benzo[b]fluoranthene	1	11	NC	2	0.6010	ND (0.012)	0.1060	ND (0.012)	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.2130	ND (0.014)	0.0403	ND (0.014)	
Benzo[k]fluoranthene	1	110	NC	2	0.2350	ND (0.014)	0.0429	ND (0.014)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.017)	ND (0.015)	ND (0.013)	ND (0.015)	
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.0096)	ND (0.011)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.037)	ND (0.032)	ND (0.028)	ND (0.033)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.025)	ND (0.021)	ND (0.018)	ND (0.022)	
Caprolactam	NC	NC	NC	NC	ND (0.013)	ND (0.011)	ND (0.010)	ND (0.012)	
Carbazole	NC	NC	NC	NC	0.0432	J ND (0.017)	ND (0.015)	ND (0.017)	
Chrysene	1	110	NC	1	0.5220	ND (0.012)	0.0880	ND (0.013)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	0.1120	ND (0.012)	0.0216	J ND (0.013)	
Dibenzofuran	7	1,000	NC	210	ND (0.013)	ND (0.011)	ND (0.0094)	ND (0.011)	
Diethyl phthalate	NC	NC	100	7	ND (0.014)	ND (0.012)	ND (0.011)	ND (0.013)	
Dimethyl phthalate	NC	NC	200	27	ND (0.015)	0.0901	0.1710	0.0388	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0094)	ND (0.0081)	ND (0.0071)	ND (0.0083)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.021)	ND (0.018)	ND (0.015)	ND (0.018)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0049)	ND (0.0042)	ND (0.0037)	ND (0.0043)	
Fluoranthene	100	1,000	NC	1,000	0.8460	ND (0.016)	0.1250	ND (0.016)	
Fluorene	30	1,000	30	386	ND (0.014)	ND (0.012)	ND (0.010)	ND (0.012)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.014)	ND (0.012)	ND (0.010)	ND (0.012)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.0088)	ND (0.010)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.043)	ND (0.037)	ND (0.032)	ND (0.038)	
Hexachloroethane	NC	NC	NC	NC	ND (0.012)	ND (0.010)	ND (0.0088)	ND (0.010)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.2230	ND (0.013)	0.0407	ND (0.013)	
Isophorone	NC	NC	NC	4	ND (0.011)	ND (0.0098)	ND (0.0086)	ND (0.010)	
Naphthalene	12	1,000	NC	12	ND (0.012)	0.0539	0.0582	0.0623	
Nitrobenzene	NC	140	40	0.17	ND (0.012)	ND (0.011)	ND (0.0092)	ND (0.011)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.010)	ND (0.0089)	ND (0.0078)	ND (0.0091)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.025)	ND (0.022)	ND (0.019)	ND (0.022)	
Pentachlorophenol	1	55	0.8	1	ND (0.072)	ND (0.062)	ND (0.054)	ND (0.064)	
Phenanthrene	100	1,000	NC	1,000	0.1940	ND (0.017)	0.0324	ND (0.017)	
Phenol	0.33	1,000	30	0.33	ND (0.044)	ND (0.038)	ND (0.033)	ND (0.039)	
Pyrene	100	1,000	NC	1,000	0.6840	ND (0.014)	0.1110	ND (0.014)	
Total SVOCs	NC	NC	NC	NC	4.60	0.20	1.03	0.16	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
					Lab Sample ID	JA93504-1	JA93504-2	JA93382-3	JA93382-4
					Sampling Date	12/2/2011	12/2/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.036)	ND (0.034)	ND (0.035)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.040)	ND (0.039)	ND (0.039)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.033)	ND (0.031)	ND (0.032)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.055)	ND (0.056)	ND (0.053)	ND (0.055)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.057)	ND (0.058)	ND (0.056)	ND (0.057)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.042)	ND (0.041)	ND (0.041)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.011)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.039)	ND (0.040)	ND (0.038)	ND (0.039)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.037)	ND (0.035)	ND (0.036)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.043)	ND (0.044)	ND (0.042)	ND (0.043)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0086)	ND (0.0088)	ND (0.0084)	ND (0.0086)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.042)	ND (0.041)	ND (0.041)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)	ND (0.035)	ND (0.033)	ND (0.034)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.057)	ND (0.059)	ND (0.056)	ND (0.057)	
Acenaphthene	20	1,000	20	98	ND (0.0098)	ND (0.010)	ND (0.0096)	ND (0.0098)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.0060)	ND (0.0061)	ND (0.0058)	ND (0.0060)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.0067)	ND (0.0068)	ND (0.0065)	ND (0.0067)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0078)	ND (0.0080)	ND (0.0076)	ND (0.0078)	
Benzofluoranthene	1	11	NC	1	ND (0.011)	ND (0.011)	0.0317	J ND (0.011)	
Benzofluorene	1	1	2.6	22	ND (0.010)	ND (0.011)	0.0272	J ND (0.010)	
Benzofluoranthene	1	11	NC	2	ND (0.011)	ND (0.012)	0.0251	J ND (0.011)	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	0.0144	J ND (0.013)	
Benzofluoranthene	1	110	NC	2	ND (0.013)	ND (0.013)	0.0267	J ND (0.013)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.013)	ND (0.014)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.030)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.020)	ND (0.019)	ND (0.020)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.015)	ND (0.016)	
Chrysene	1	110	NC	1	ND (0.011)	ND (0.012)	0.0364	ND (0.011)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.010)	ND (0.0099)	ND (0.010)	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	0.1050	0.0338	J ND (0.012)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0075)	ND (0.0077)	ND (0.0074)	ND (0.0075)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.017)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0040)	ND (0.0039)	ND (0.0039)	
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	0.0524	ND (0.015)	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0094)	ND (0.0097)	ND (0.0092)	ND (0.0094)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.035)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0094)	ND (0.0097)	ND (0.0092)	ND (0.0094)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	ND (0.012)	0.0154	J ND (0.012)	
Isophorone	NC	NC	NC	4	ND (0.0091)	ND (0.0094)	ND (0.0089)	ND (0.0091)	
Naphthalene	12	1,000	NC	12	ND (0.0092)	ND (0.0095)	ND (0.0091)	ND (0.0093)	
Nitrobenzene	NC	140	40	0.17	ND (0.0098)	ND (0.010)	ND (0.0096)	ND (0.0098)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0083)	ND (0.0085)	ND (0.0081)	ND (0.0083)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.021)	ND (0.020)	ND (0.020)	
Pentachlorophenol	1	55	0.8	1	ND (0.058)	ND (0.059)	ND (0.057)	ND (0.058)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.036)	ND (0.035)	ND (0.036)	
Pyrene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	0.0450	ND (0.013)	
Total SVOCs	NC	NC	NC	NC	ND	0.11	0.31	ND	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5	
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8	
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011	
					Matrix	Soil	Soil	Soil	Soil	
Units	mg/kg	mg/kg	mg/kg	mg/kg						
Result	Result	Result	Result							
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	NA	ND (0.0099)	ND (0.010)	ND (0.011)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.033)	ND (0.035)	ND (0.036)	ND (0.036)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.037)	ND (0.039)	ND (0.041)	ND (0.041)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.030)	ND (0.032)	ND (0.033)	ND (0.033)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.052)	ND (0.054)	ND (0.057)	ND (0.057)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.054)	ND (0.057)	ND (0.059)	ND (0.059)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.039)	ND (0.041)	ND (0.043)	ND (0.043)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	ND (0.015)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.033)	ND (0.034)	ND (0.036)	ND (0.036)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.020)	ND (0.020)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.037)	ND (0.039)	ND (0.040)	ND (0.040)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.016)	ND (0.016)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.034)	ND (0.036)	ND (0.037)	ND (0.037)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.041)	ND (0.043)	ND (0.045)	ND (0.045)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0083)	ND (0.0082)	ND (0.0086)	ND (0.0089)	ND (0.0089)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.039)	ND (0.041)	ND (0.043)	ND (0.043)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.032)	ND (0.034)	ND (0.035)	ND (0.035)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0097)	ND (0.010)	ND (0.011)	ND (0.011)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.014)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.055)	ND (0.057)	ND (0.060)	ND (0.060)	
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.0094)	ND (0.0098)	ND (0.010)	ND (0.010)	
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0057)	ND (0.0059)	ND (0.0062)	ND (0.0062)	
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0064)	ND (0.0067)	ND (0.0069)	ND (0.0069)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0074)	ND (0.0078)	ND (0.0081)	ND (0.0081)	
Benzo[a]anthracene	1	11	NC	1	0.0264	J	0.0221	J	ND (0.011)	
Benzo[a]pyrene	1	1	2.6	22	0.0246	J	0.0231	J	ND (0.011)	
Benzo[b]fluoranthene	1	11	NC	2	0.0253	J	0.0224	J	ND (0.012)	
Benzo[g,h,i]perylene	100	1,000	NC	1,000	0.0165	J	0.0139	J	ND (0.013)	
Benzo[k]fluoranthene	1	110	NC	2	0.0230	J	0.0182	J	ND (0.013)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.014)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0097)	ND (0.010)	ND (0.011)	ND (0.011)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.028)	ND (0.030)	ND (0.031)	ND (0.031)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.020)	ND (0.020)	
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.016)	
Chrysene	1	110	NC	1	0.0332	ND (0.011)	0.0285	J	ND (0.012)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)	
Dibenzofuran	7	1,000	NC	210	ND (0.0097)	ND (0.0096)	ND (0.010)	ND (0.010)	ND (0.010)	
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	0.0359	J	ND (0.012)	0.0550	J
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0072)	ND (0.0075)	ND (0.0078)	ND (0.0078)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.017)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0038)	ND (0.0037)	ND (0.0039)	ND (0.0041)	ND (0.0041)	
Fluoranthene	100	1,000	NC	1,000	0.0465	ND (0.014)	0.0392	ND (0.016)	ND (0.016)	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0091)	ND (0.0090)	ND (0.0094)	ND (0.0098)	ND (0.0098)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.033)	ND (0.034)	ND (0.036)	ND (0.036)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0091)	ND (0.0090)	ND (0.0094)	ND (0.0098)	ND (0.0098)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	0.0129	J	0.0134	J	ND (0.012)	
Isophorone	NC	NC	NC	4	ND (0.0088)	ND (0.0087)	ND (0.0091)	ND (0.0095)	ND (0.0095)	
Naphthalene	12	1,000	NC	12	ND (0.0089)	ND (0.0088)	ND (0.0092)	ND (0.0096)	ND (0.0096)	
Nitrobenzene	NC	140	40	0.17	ND (0.0094)	ND (0.0093)	ND (0.0098)	ND (0.010)	ND (0.010)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0079)	ND (0.0082)	ND (0.0086)	ND (0.0086)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.021)	ND (0.021)	
Pentachlorophenol	1	55	0.8	1	ND (0.056)	ND (0.055)	ND (0.058)	ND (0.060)	ND (0.060)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.016)	
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.037)	ND (0.037)	
Pyrene	100	1,000	NC	1,000	0.0378	ND (0.012)	0.0343	ND (0.014)	ND (0.014)	
Total SVOCs	NC	NC	NC	NC	0.25	0.04	0.22	0.06	0.06	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
					Lab Sample ID	JA93382-1	JA93382-2	JA93246-1	JA93246-2
					Sampling Date	12/1/2011	12/1/2011	11/30/2011	11/30/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.033)	ND (0.033)	ND (0.035)	ND (0.034)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.038)	ND (0.038)	ND (0.040)	ND (0.038)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.030)	ND (0.032)	ND (0.031)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.052)	ND (0.052)	ND (0.055)	ND (0.053)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.055)	ND (0.054)	ND (0.057)	ND (0.056)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.040)	ND (0.040)	ND (0.042)	ND (0.040)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.014)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.010)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.033)	ND (0.033)	ND (0.035)	ND (0.033)	
2-Methylnaphthalene	NC	NC	36.4	NC	ND (0.018)	ND (0.018)	ND (0.019)	ND (0.018)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.037)	ND (0.037)	ND (0.039)	ND (0.038)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.015)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.034)	ND (0.034)	ND (0.036)	ND (0.035)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.041)	ND (0.041)	ND (0.043)	ND (0.042)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0083)	ND (0.0082)	ND (0.0087)	ND (0.0084)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.013)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.040)	ND (0.040)	ND (0.042)	ND (0.040)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.032)	ND (0.034)	ND (0.033)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0098)	ND (0.010)	ND (0.010)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.055)	ND (0.055)	ND (0.058)	ND (0.056)	
Acenaphthene	20	1,000	20	98	ND (0.0094)	ND (0.0094)	ND (0.0099)	ND (0.0096)	
Acenaphthylene	100	1,000	NC	107	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.0057)	ND (0.0057)	ND (0.0060)	ND (0.0058)	
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.0064)	ND (0.0064)	ND (0.0067)	ND (0.0065)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0075)	ND (0.0075)	0.0700	ND (0.0076)	
Benzofuran	1	11	NC	1	0.0145	J	0.0311	J	
Benzofluoranthene	1	11	NC	2	ND (0.011)	ND (0.011)	0.0287	J	
Benzofluoranthene	1	11	NC	2	ND (0.011)	ND (0.011)	0.0363	J	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.012)	ND (0.012)	0.0233	J	
Benzofluoranthene	1	110	NC	2	ND (0.012)	ND (0.012)	0.0266	J	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.013)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0098)	ND (0.0098)	ND (0.010)	ND (0.010)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.029)	ND (0.030)	ND (0.029)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.019)	
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.011)	ND (0.010)	
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.016)	ND (0.015)	
Chrysene	1	110	NC	1	0.0159	J	0.0350	J	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Dibenzofuran	7	1,000	NC	210	ND (0.0097)	ND (0.0096)	ND (0.010)	ND (0.0098)	
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.011)	
Dimethyl phthalate	NC	NC	200	27	0.0365	J	0.0382	J	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0072)	ND (0.0072)	ND (0.0076)	ND (0.0073)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.017)	ND (0.016)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0038)	ND (0.0038)	ND (0.0040)	ND (0.0038)	
Fluoranthene	100	1,000	NC	1,000	0.0198	J	0.0465	J	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0090)	ND (0.0090)	ND (0.0095)	ND (0.0092)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.033)	ND (0.033)	ND (0.035)	ND (0.034)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0090)	ND (0.0090)	ND (0.0095)	ND (0.0092)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.011)	ND (0.011)	0.0226	J	
Isophorone	NC	NC	NC	4	ND (0.0087)	ND (0.0087)	ND (0.0092)	ND (0.0089)	
Naphthalene	12	1,000	NC	12	ND (0.0089)	ND (0.0088)	ND (0.0093)	ND (0.0090)	
Nitrobenzene	NC	140	40	0.17	ND (0.0094)	ND (0.0094)	ND (0.0099)	ND (0.0096)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0079)	ND (0.0079)	ND (0.0083)	ND (0.0081)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.019)	ND (0.019)	ND (0.020)	ND (0.020)	
Pentachlorophenol	1	55	0.8	1	ND (0.056)	ND (0.055)	ND (0.058)	ND (0.057)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	0.0217	J	
Phenol	0.33	1,000	30	0.33	ND (0.034)	ND (0.034)	ND (0.036)	ND (0.035)	
Pyrene	100	1,000	NC	1,000	0.0173	J	0.0489	J	
Total SVOCs	NC	NC	NC	NC	0.10	0.04	0.49	0.05	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0094)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.032)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.039)	ND (0.039)	ND (0.036)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.031)	ND (0.032)	ND (0.032)	ND (0.029)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.054)	ND (0.054)	ND (0.049)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.057)	ND (0.056)	ND (0.052)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.041)	ND (0.041)	ND (0.037)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.013)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0095)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.031)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.017)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.035)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.013)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.035)	ND (0.036)	ND (0.036)	ND (0.032)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.042)	ND (0.043)	ND (0.043)	ND (0.039)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0085)	ND (0.0085)	ND (0.0078)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.041)	ND (0.041)	ND (0.037)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.033)	ND (0.034)	ND (0.034)	ND (0.031)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0098)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0092)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.056)	ND (0.057)	ND (0.057)	ND (0.052)	
Acenaphthene	20	1,000	20	98	ND (0.0097)	ND (0.0098)	ND (0.0097)	ND (0.0089)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.0098)	
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0059)	ND (0.0059)	ND (0.0054)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0066)	ND (0.0066)	ND (0.0060)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0071)	
Benzof[anthracene]	1	11	NC	1	ND (0.011)	ND (0.011)	ND (0.011)	0.0392	
Benzof[a]pyrene	1	1	2.6	22	ND (0.010)	ND (0.010)	ND (0.010)	0.0411	
Benzof[b]fluoranthene	1	11	NC	2	ND (0.011)	ND (0.011)	ND (0.011)	0.0565	
Benzof[g,h,i]perylene	100	1,000	NC	1,000	ND (0.012)	ND (0.013)	ND (0.013)	0.0280	
Benzof[k]fluoranthene	1	110	NC	2	ND (0.013)	ND (0.013)	ND (0.013)	0.0249	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.012)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.0092)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.029)	ND (0.030)	ND (0.030)	ND (0.027)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.018)	
Caprolactam	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.0097)	
Carbazole	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.014)	
Chrysene	1	110	NC	1	ND (0.011)	ND (0.011)	ND (0.011)	0.0385	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.011)	ND (0.011)	0.0144	
Dibenzofuran	7	1,000	NC	210	ND (0.0099)	ND (0.010)	ND (0.010)	ND (0.0091)	
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.011)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0074)	ND (0.0075)	ND (0.0075)	ND (0.0068)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.015)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0039)	ND (0.0039)	ND (0.0036)	
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	ND (0.015)	0.0612	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.0094)	ND (0.0093)	ND (0.0085)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.031)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.0094)	ND (0.0093)	ND (0.0085)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	ND (0.012)	ND (0.012)	0.0286	
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0091)	ND (0.0090)	ND (0.0082)	
Naphthalene	12	1,000	NC	12	ND (0.0091)	ND (0.0092)	ND (0.0092)	ND (0.0084)	
Nitrobenzene	NC	140	40	0.17	ND (0.0096)	ND (0.0097)	ND (0.0097)	ND (0.0089)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0081)	ND (0.0082)	ND (0.0082)	ND (0.0075)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.018)	
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.058)	ND (0.057)	ND (0.052)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.015)	ND (0.015)	0.0152	
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.032)	
Pyrene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	ND (0.013)	0.0528	
Total SVOCs	NC	NC	NC	NC	ND	ND	ND	0.40	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5
					Lab Sample ID	JA93099-4A	JA93029-5	JA93029-6	JA93029-3
					Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.035)	ND (0.037)	ND (0.035)	ND (0.034)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.039)	ND (0.042)	ND (0.040)	ND (0.038)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.032)	ND (0.034)	ND (0.032)	ND (0.031)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.054)	ND (0.058)	ND (0.055)	ND (0.053)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.056)	ND (0.061)	ND (0.058)	ND (0.056)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.041)	ND (0.044)	ND (0.042)	ND (0.040)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.014)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.010)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.034)	ND (0.037)	ND (0.035)	ND (0.033)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.020)	ND (0.019)	ND (0.018)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.038)	ND (0.041)	ND (0.039)	ND (0.038)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.036)	ND (0.038)	ND (0.036)	ND (0.035)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.043)	ND (0.046)	ND (0.044)	ND (0.042)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0085)	ND (0.0092)	ND (0.0087)	ND (0.0084)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.013)	ND (0.014)	ND (0.014)	ND (0.013)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.041)	ND (0.044)	ND (0.042)	ND (0.040)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.034)	ND (0.036)	ND (0.034)	ND (0.033)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.057)	ND (0.061)	ND (0.058)	ND (0.056)	
Acenaphthene	20	1,000	20	98	ND (0.0097)	ND (0.011)	ND (0.0099)	ND (0.0096)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.0059)	ND (0.0064)	ND (0.0060)	ND (0.0058)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.0066)	ND (0.0071)	ND (0.0068)	ND (0.0065)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0077)	ND (0.0083)	ND (0.0079)	ND (0.0076)	
Benzofuran	1	11	NC	1	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Benzofluoranthene	1	1	2.6	22	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	
Benzofluoranthene	1	11	NC	2	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.012)	
Benzofluoranthene	1	110	NC	2	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.012)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.014)	ND (0.013)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.010)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.030)	ND (0.032)	ND (0.030)	ND (0.029)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.019)	ND (0.021)	ND (0.020)	ND (0.019)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.017)	ND (0.016)	ND (0.015)	
Chrysene	1	110	NC	1	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.011)	ND (0.010)	ND (0.0098)	
Diethyl phthalate	NC	NC	100	7	ND (0.011)	ND (0.012)	ND (0.012)	ND (0.011)	
Dimethyl phthalate	NC	NC	200	27	ND (0.012)	0.0898	0.1	0.0548	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0075)	0.0702	J	ND (0.0076)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.016)	ND (0.018)	ND (0.017)	ND (0.016)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0039)	ND (0.0042)	ND (0.0040)	ND (0.0038)	
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	
Fluorene	30	1,000	30	386	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0093)	ND (0.010)	ND (0.0095)	ND (0.0092)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.034)	ND (0.037)	ND (0.035)	ND (0.034)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0093)	ND (0.010)	ND (0.0095)	ND (0.0092)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	
Isophorone	NC	NC	NC	4	ND (0.0090)	ND (0.0097)	ND (0.0092)	ND (0.0089)	
Naphthalene	12	1,000	NC	12	ND (0.0092)	ND (0.0099)	ND (0.0094)	ND (0.0090)	
Nitrobenzene	NC	140	40	0.17	ND (0.0097)	ND (0.010)	ND (0.0099)	ND (0.0096)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0082)	ND (0.0088)	ND (0.0084)	ND (0.0081)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.020)	NC	ND (0.020)	ND (0.020)	
Pentachlorophenol	1	55	0.8	1	ND (0.057)	ND (0.062)	ND (0.059)	ND (0.057)	
Phenanthrene	100	1,000	NC	1,000	ND (0.015)	ND (0.016)	ND (0.016)	ND (0.015)	
Phenol	0.33	1,000	30	0.33	ND (0.035)	ND (0.038)	ND (0.036)	ND (0.035)	
Pyrene	100	1,000	NC	1,000	ND (0.013)	ND (0.014)	ND (0.013)	ND (0.013)	
Total SVOCs	NC	NC	NC	NC	ND	0.16	0.10	0.05	

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
					Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1
					Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
Result					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.0099)	ND (0.011)	ND (0.022)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.033)	ND (0.037)	ND (0.073)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.040)	ND (0.038)	ND (0.042)	ND (0.082)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.033)	ND (0.030)	ND (0.034)	ND (0.066)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.056)	ND (0.052)	ND (0.058)	ND (0.11)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.058)	ND (0.054)	ND (0.060)	ND (0.12)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.042)	ND (0.039)	ND (0.044)	ND (0.086)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.014)	ND (0.016)	ND (0.031)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.012)	ND (0.014)	ND (0.027)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.022)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.035)	ND (0.033)	ND (0.036)	ND (0.071)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.019)	ND (0.018)	ND (0.020)	ND (0.039)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.039)	ND (0.037)	ND (0.041)	ND (0.081)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.015)	ND (0.014)	ND (0.016)	ND (0.031)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.037)	ND (0.034)	ND (0.038)	ND (0.075)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.044)	ND (0.041)	ND (0.046)	ND (0.090)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0088)	ND (0.0082)	ND (0.0091)	ND (0.018)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.013)	ND (0.014)	ND (0.028)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.042)	ND (0.039)	ND (0.044)	ND (0.086)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.013)	ND (0.026)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.035)	ND (0.032)	ND (0.036)	ND (0.071)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.010)	ND (0.012)	ND (0.023)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.011)	ND (0.021)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.013)	ND (0.013)	ND (0.014)	ND (0.028)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.058)	ND (0.055)	ND (0.061)	ND (0.12)	
Acenaphthene	20	1,000	20	98	ND (0.010)	0.0591	ND (0.010)	ND (0.020)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.010)	ND (0.012)	ND (0.023)	
Acetophenone	NC	NC	NC	NC	ND (0.0061)	ND (0.0057)	ND (0.0063)	ND (0.012)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	0.1680	ND (0.013)	ND (0.025)	
Atrazine	NC	NC	NC	NC	ND (0.0068)	ND (0.0064)	ND (0.0071)	ND (0.014)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0080)	ND (0.0074)	ND (0.0083)	ND (0.016)	
Benzofluoranthene	1	11	NC	1	ND (0.011)	0.397	ND (0.012)	ND (0.023)	
Benzofluorene	1	1	2.6	22	ND (0.011)	0.281	ND (0.011)	ND (0.022)	
Benzofluoranthene	1	11	NC	2	ND (0.012)	0.231	ND (0.012)	ND (0.024)	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.013)	0.134	ND (0.013)	ND (0.026)	
Benzofluoranthene	1	110	NC	2	ND (0.013)	0.297	ND (0.014)	ND (0.027)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.015)	ND (0.029)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.010)	ND (0.0097)	ND (0.011)	ND (0.021)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.031)	ND (0.029)	ND (0.032)	ND (0.062)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.019)	ND (0.021)	ND (0.041)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.022)	
Carbazole	NC	NC	NC	NC	ND (0.016)	0.0323	ND (0.017)	ND (0.033)	
Chrysene	1	110	NC	1	ND (0.012)	0.354	ND (0.012)	ND (0.024)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	0.0648	ND (0.012)	ND (0.024)	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	0.0254	ND (0.011)	ND (0.021)	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.024)	
Dimethyl phthalate	NC	NC	200	27	0.0577	ND (0.011)	ND (0.013)	ND (0.025)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0077)	ND (0.0072)	ND (0.0080)	ND (0.016)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.016)	ND (0.018)	ND (0.034)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0040)	ND (0.0038)	ND (0.0042)	ND (0.0082)	
Fluoranthene	100	1,000	NC	1,000	ND (0.015)	0.978	ND (0.016)	ND (0.031)	
Fluorene	30	1,000	30	386	ND (0.011)	0.0653	ND (0.012)	ND (0.023)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.023)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0096)	ND (0.0090)	ND (0.010)	ND (0.020)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.035)	ND (0.033)	ND (0.037)	ND (0.072)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0096)	ND (0.0090)	ND (0.010)	ND (0.020)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	0.1450	ND (0.012)	ND (0.025)	
Isophorone	NC	NC	NC	4	ND (0.0093)	ND (0.0087)	ND (0.0097)	ND (0.019)	
Naphthalene	12	1,000	NC	12	ND (0.0094)	ND (0.0088)	ND (0.0098)	ND (0.019)	
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.0094)	ND (0.010)	ND (0.020)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0084)	ND (0.0079)	ND (0.0088)	ND (0.017)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.019)	ND (0.021)	ND (0.042)	
Pentachlorophenol	1	55	0.8	1	ND (0.059)	ND (0.055)	ND (0.062)	ND (0.12)	
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	0.678	ND (0.016)	ND (0.032)	
Phenol	0.33	1,000	30	0.33	ND (0.036)	ND (0.034)	ND (0.038)	ND (0.074)	
Pyrene	100	1,000	NC	1,000	ND (0.013)	0.725	ND (0.014)	ND (0.027)	
Total SVOCs	NC	NC	NC	NC	0.06	4.63	ND	ND	

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)

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SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
					Lab Sample ID	JA92420-2	JA92420-7	JA92264-1	JA92264-2
					Sampling Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.036)	ND (0.035)	ND (0.035)	ND (0.035)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.041)	ND (0.039)	ND (0.040)	ND (0.039)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.033)	ND (0.032)	ND (0.032)	ND (0.032)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.057)	ND (0.055)	ND (0.055)	ND (0.054)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.059)	ND (0.057)	ND (0.057)	ND (0.057)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.043)	ND (0.041)	ND (0.042)	ND (0.041)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.015)	ND (0.015)	ND (0.015)	ND (0.015)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.010)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.036)	ND (0.034)	ND (0.034)	ND (0.034)	
2-Methylnaphthalene	NC	NC	36.4	NC	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.040)	ND (0.039)	ND (0.039)	ND (0.039)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.037)	ND (0.036)	ND (0.036)	ND (0.036)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.045)	ND (0.043)	ND (0.043)	ND (0.043)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0089)	ND (0.0086)	ND (0.0087)	ND (0.0086)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.043)	ND (0.041)	ND (0.042)	ND (0.041)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.012)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.060)	ND (0.057)	ND (0.058)	ND (0.057)	
Acenaphthene	20	1,000	20	98	ND (0.010)	ND (0.0098)	ND (0.0099)	ND (0.0098)	
Acenaphthylene	100	1,000	NC	107	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Acetophenone	NC	NC	NC	NC	ND (0.0062)	ND (0.0060)	ND (0.0060)	ND (0.0059)	
Anthracene	100	1,000	NC	1,000	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Atrazine	NC	NC	NC	NC	ND (0.0069)	ND (0.0067)	ND (0.0067)	ND (0.0067)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0081)	ND (0.0078)	ND (0.0079)	ND (0.0078)	
Benzofuran	1	11	NC	1	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Benzofluoranthene	1	1	2.6	22	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	
Benzofluoranthene	1	11	NC	2	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
Benzofluoranthene	1	110	NC	2	ND (0.013)	ND (0.013)	ND (0.013)	ND (0.013)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	
Bis(2-chloroethoxy)ether	NC	NC	NC	NC	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.010)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.031)	ND (0.030)	ND (0.030)	ND (0.030)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	
Caprolactam	NC	NC	NC	NC	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Carbazole	NC	NC	NC	NC	ND (0.016)	ND (0.016)	ND (0.016)	ND (0.016)	
Chrysene	1	110	NC	1	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Dibenzofuran	7	1,000	NC	210	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
Diethyl phthalate	NC	NC	100	7	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Dimethyl phthalate	NC	NC	200	27	0.0391	0.0344	ND (0.012)	ND (0.012)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0078)	ND (0.0075)	ND (0.0076)	ND (0.0075)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.017)	ND (0.017)	ND (0.017)	ND (0.016)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0041)	ND (0.0039)	ND (0.0040)	ND (0.0039)	
Fluoranthene	100	1,000	NC	1,000	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.015)	
Fluorene	30	1,000	30	386	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0098)	ND (0.0094)	ND (0.0095)	ND (0.0094)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.036)	ND (0.035)	ND (0.035)	ND (0.034)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0098)	ND (0.0094)	ND (0.0095)	ND (0.0094)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.012)	ND (0.012)	ND (0.012)	ND (0.012)	
Isophorone	NC	NC	NC	4	ND (0.0095)	ND (0.0091)	ND (0.0092)	ND (0.0091)	
Naphthalene	12	1,000	NC	12	ND (0.0096)	ND (0.0093)	ND (0.0093)	ND (0.0092)	
Nitrobenzene	NC	140	40	0.17	ND (0.010)	ND (0.0098)	ND (0.0099)	ND (0.0098)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0086)	ND (0.0083)	ND (0.0083)	ND (0.0082)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.021)	ND (0.020)	ND (0.020)	ND (0.020)	
Pentachlorophenol	1	55	0.8	1	ND (0.060)	ND (0.058)	ND (0.058)	ND (0.058)	
Phenanthrene	100	1,000	NC	1,000	ND (0.016)	ND (0.015)	ND (0.016)	ND (0.015)	
Phenol	0.33	1,000	30	0.33	ND (0.037)	ND (0.036)	ND (0.036)	ND (0.035)	
Pyrene	100	1,000	NC	1,000	ND (0.014)	ND (0.013)	ND (0.013)	ND (0.013)	
Total SVOCs	NC	NC	NC	NC	0.04	0.03	ND	ND	

Notes:

mg/kg - milligrams per kilogram
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 NC - No Criterion
 SCO - Soil Cleanup Objective
 NA - Not Analyzed
 ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILE ORGANIC COMPOUNDS

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
					Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6
					Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
Units					mg/kg	mg/kg	mg/kg	mg/kg	
Result					Result	Result	Result	Result	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	ND (0.0094)	ND (0.0099)	ND (0.011)	ND (0.021)	
2,2'-oxybis[1-chloropropane]	NC	NC	NC	NC	NA	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	ND (0.032)	ND (0.033)	ND (0.036)	ND (0.070)	
2,4,5-Trichlorophenol	NC	NC	4	0.1	ND (0.036)	ND (0.037)	ND (0.041)	ND (0.079)	
2,4,6-Trichlorophenol	NC	NC	10	NC	ND (0.029)	ND (0.030)	ND (0.033)	ND (0.064)	
2,4-Dichlorophenol	NC	NC	20	0.4	ND (0.050)	ND (0.052)	ND (0.056)	ND (0.11)	
2,4-Dimethylphenol	NC	NC	NC	NC	ND (0.052)	ND (0.054)	ND (0.059)	ND (0.11)	
2,4-Dinitrophenol	NC	NC	20	0.2	ND (0.038)	ND (0.039)	ND (0.043)	ND (0.083)	
2,4-Dinitrotoluene	NC	NC	NC	NC	ND (0.013)	ND (0.014)	ND (0.015)	ND (0.030)	
2,6-Dinitrotoluene	NC	NC	NC	1	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.026)	
2-Chloronaphthalene	NC	NC	NC	NC	ND (0.0095)	ND (0.010)	ND (0.011)	ND (0.021)	
2-Chlorophenol	NC	NC	0.8	NC	ND (0.031)	ND (0.033)	ND (0.035)	ND (0.069)	
2-Methylnaphthalene	NC	NC	NC	36.4	ND (0.017)	ND (0.018)	ND (0.020)	ND (0.038)	
2-Methylphenol (o-cresol)	0.33	1,000	NC	0.33	ND (0.035)	ND (0.037)	ND (0.040)	ND (0.078)	
2-Nitroaniline	NC	NC	NC	0.4	ND (0.014)	ND (0.014)	ND (0.015)	ND (0.030)	
2-Nitrophenol	NC	NC	7	0.3	ND (0.033)	ND (0.034)	ND (0.037)	ND (0.072)	
3 & 4 Methylphenol (m&p-cresol)	NC	NC	NC	NC	ND (0.039)	ND (0.041)	ND (0.044)	ND (0.087)	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	ND (0.0078)	ND (0.0082)	ND (0.0089)	ND (0.017)	
3-Nitroaniline	NC	NC	NC	0.5	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.027)	
4,6-Dinitro-2-methylphenol	NC	NC	NC	NC	ND (0.038)	ND (0.039)	ND (0.043)	ND (0.083)	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.025)	
4-Chloro-3-methylphenol	NC	NC	NC	NC	ND (0.031)	ND (0.032)	ND (0.035)	ND (0.068)	
4-Chloroaniline	NC	NC	NC	0.22	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.022)	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	ND (0.0093)	ND (0.0097)	ND (0.011)	ND (0.021)	
4-Methylphenol	NC	NC	NC	NC	NA	NA	NA	NA	
4-Nitroaniline	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.027)	
4-Nitrophenol	NC	NC	7	0.3	ND (0.052)	ND (0.054)	ND (0.059)	ND (0.12)	
Acenaphthene	20	1,000	20	98	ND (0.0089)	ND (0.0094)	ND (0.010)	ND (0.020)	
Acenaphthylene	100	1,000	NC	107	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.022)	
Acetophenone	NC	NC	NC	NC	ND (0.0054)	ND (0.0057)	ND (0.0062)	ND (0.012)	
Anthracene	100	1,000	NC	1,000	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.024)	
Atrazine	NC	NC	NC	NC	ND (0.0061)	ND (0.0064)	ND (0.0069)	ND (0.013)	
Benzaldehyde	NC	NC	NC	NC	ND (0.0071)	ND (0.0074)	ND (0.0081)	ND (0.016)	
Benzofuran	1	11	NC	1	0.147	ND (0.011)	ND (0.011)	ND (0.022)	
Benzofluoranthene	1	1	2.6	22	ND (0.0094)	ND (0.0098)	ND (0.011)	ND (0.021)	
Benzofluoranthene	1	11	NC	2	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.023)	
Benzofluoranthene	100	1,000	NC	1,000	ND (0.011)	ND (0.012)	ND (0.013)	ND (0.025)	
Benzofluoranthene	1	110	NC	2	ND (0.012)	ND (0.012)	ND (0.013)	ND (0.026)	
Bis(2-chloroethoxy)methane	NC	NC	NC	NC	ND (0.012)	ND (0.013)	ND (0.014)	ND (0.028)	
Bis(2-chloroethyl)ether	NC	NC	NC	NC	ND (0.0093)	ND (0.0097)	ND (0.011)	ND (0.021)	
Bis(2-ethylhexyl) phthalate	NC	NC	239	435	ND (0.027)	ND (0.028)	ND (0.031)	ND (0.060)	
Butyl benzyl phthalate	NC	NC	NC	122	ND (0.018)	ND (0.019)	ND (0.020)	ND (0.039)	
Caprolactam	NC	NC	NC	NC	ND (0.0097)	ND (0.010)	ND (0.011)	ND (0.021)	
Carbazole	NC	NC	NC	NC	ND (0.014)	ND (0.015)	ND (0.016)	ND (0.032)	
Chrysene	1	110	NC	1	0.179	ND (0.011)	ND (0.012)	ND (0.023)	
Dibenz(a,h)anthracene	0.33	1.1	NC	1,000	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.023)	
Dibenzofuran	7	1,000	NC	210	ND (0.0091)	ND (0.0096)	ND (0.010)	ND (0.020)	
Diethyl phthalate	NC	NC	100	7	ND (0.010)	ND (0.011)	ND (0.012)	ND (0.023)	
Dimethyl phthalate	NC	NC	200	27	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.024)	
Di-n-butyl phthalate	NC	NC	0.014	8.1	ND (0.0068)	ND (0.0072)	ND (0.0078)	ND (0.015)	
Di-n-octyl phthalate	NC	NC	NC	120	ND (0.015)	ND (0.016)	ND (0.017)	ND (0.033)	
Diphenyl (1,1'-Biphenyl)	NC	NC	60	NC	ND (0.0036)	ND (0.0037)	ND (0.0041)	ND (0.0079)	
Fluoranthene	100	1,000	NC	1,000	0.0251	ND (0.014)	ND (0.015)	ND (0.030)	
Fluorene	30	1,000	30	386	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.022)	
Hexachlorobenzene	0.33	12	NC	3	ND (0.010)	ND (0.011)	ND (0.011)	ND (0.022)	
Hexachlorobutadiene	NC	NC	NC	NC	ND (0.0085)	ND (0.0090)	ND (0.0097)	ND (0.019)	
Hexachlorocyclopentadiene	NC	NC	10	NC	ND (0.031)	ND (0.033)	ND (0.036)	ND (0.070)	
Hexachloroethane	NC	NC	NC	NC	ND (0.0085)	ND (0.0090)	ND (0.0097)	ND (0.019)	
Indeno[1,2,3-cd]pyrene	0.5	11	NC	8.2	ND (0.011)	ND (0.011)	ND (0.012)	ND (0.024)	
Isophorone	NC	NC	NC	4	ND (0.0083)	ND (0.0087)	ND (0.0094)	ND (0.018)	
Naphthalene	12	1,000	NC	12	ND (0.0084)	ND (0.0088)	ND (0.0096)	ND (0.019)	
Nitrobenzene	NC	140	40	0.17	ND (0.0089)	ND (0.0093)	ND (0.010)	ND (0.020)	
N-Nitrosodi-n-propylamine	NC	NC	NC	NC	ND (0.0075)	ND (0.0079)	ND (0.0085)	ND (0.017)	
N-Nitrosodiphenylamine	NC	NC	20	NC	ND (0.018)	ND (0.019)	ND (0.021)	ND (0.041)	
Pentachlorophenol	1	55	0.8	1	ND (0.053)	ND (0.055)	ND (0.060)	ND (0.12)	
Phenanthrene	100	1,000	NC	1,000	ND (0.014)	ND (0.015)	ND (0.016)	ND (0.031)	
Phenol	0.33	1,000	30	0.33	ND (0.032)	ND (0.034)	ND (0.037)	ND (0.072)	
Pyrene	100	1,000	NC	1,000	0.0208	ND (0.012)	ND (0.013)	ND (0.026)	
Total SVOCs	NC	NC	NC	NC	0.08	ND	ND	ND	

Notes:
mg/kg - milligrams per kilogram
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
NA - Not Analyzed
ND (0.010) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
Lab Sample ID						JA93685-1	JA93685-2	JA93685-3	JA93685-4
Sampling Date						12/5/2011	12/5/2011	12/5/2011	12/5/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (3.5)	ND (2.8)	ND (2.2)	ND (2.8)
TPH-DRO (C10-C44)		NC	NC	NC	NC	40.4	ND (13)	ND (11)	ND (13)

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
Lab Sample ID						JA93504-1	JA93504-2	JA93382-3	JA93382-4
Sampling Date						12/2/2011	12/2/2011	12/1/2011	12/1/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range						Result	Result	Result	Result
		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO				
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.4)	ND (2.5)	ND (2.3)	ND (2.4)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (12)	ND (12)	28.7	22.6

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
Lab Sample ID						JA93382-5	JA93382-6	JA93382-7	JA93382-8
Sampling Date						12/1/2011	12/1/2011	12/1/2011	12/1/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.3)	ND (2.3)	ND (2.4)	ND (2.6)
TPH-DRO (C10-C44)		NC	NC	NC	NC	21.5	19.2	23.4	18.8

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
Lab Sample ID						JA93382-1	JA93382-2	JA93246-1	JA93246-2
Sampling Date						12/1/2011	12/1/2011	11/30/2011	11/30/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2,3)	ND (2,3)	36.1	ND (2,3)
TPH-DRO (C10-C44)		NC	NC	NC	NC	46.7	29	166	ND (12)

Notes:
 ND (2,4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
Lab Sample ID						JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
Sampling Date						11/29/2011	11/29/2011	11/29/2011	11/29/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.3)	ND (2.4)	ND (2.4)	ND (2.0)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (12)	ND (12)	ND (12)	33.3

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5
Lab Sample ID						JA93099-4A	JA93029-5	JA93029-6	JA93029-3
Sampling Date						11/29/2011	11/28/2011	11/28/2011	11/28/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.4)	ND (2.7)	ND (2.5)	ND (2.4)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (12)	ND (13)	ND (12)	ND (12)

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
Lab Sample ID						JA93029-4	JA93029-1	JA93029-2	JA92420-1
Sampling Date						11/28/2011	11/28/2011	11/28/2011	11/17/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.5)	ND (2.2)	ND (2.7)	ND (2.5)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (12)	ND (11)	ND (13)	ND (12)

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
 SPECTRA ENERGY NJ-NY EXPANSION PROJECT
 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
Lab Sample ID						JA92420-2	JA92420-7	JA92264-1	JA92264-2
Sampling Date						11/17/2011	11/17/2011	11/16/2011	11/16/2011
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.7)	ND (2.5)	ND (2.5)	ND (2.3)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (13)	ND (12)	38.2	21.9

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
 STATEN ISLAND, NEW YORK
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 SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS

Sample ID						RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
Lab Sample ID						JA92420-3	JA92420-4	JA92420-5	JA92420-6
Sampling Date						11/17/2011	11/17/2011	11/17/2011	40864
Matrix						Soil	Soil	Soil	Soil
Units						mg/kg	mg/kg	mg/kg	mg/kg
Equivalent Carbon Range		Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result
TPH-GRO (C6-C10)		NC	NC	NC	NC	ND (2.1)	ND (2.3)	ND (2.6)	ND (2.5)
TPH-DRO (C10-C44)		NC	NC	NC	NC	ND (11)	ND (11)	ND (12)	ND (12)

Notes:
 ND (2.4) - Not Detected (Method Detection Limit)
 SCO - Soil Cleanup Objective
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-1W/2	RCH-MM-ENV-1W/5	RCH-MM-ENV-2/0.5	RCH-MM-ENV-2/5
					Lab Sample ID	JA93685-1	JA93685-2	JA93685-3	JA93685-4
					Sampling Date	12/5/2011	12/5/2011	12/5/2011	12/5/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00037)	ND (0.00031)	ND (0.00028)	ND (0.00033)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00028)	ND (0.00023)	ND (0.00021)	ND (0.00025)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00067)	ND (0.00055)	ND (0.00050)	ND (0.00060)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00034)	ND (0.00028)	ND (0.00025)	ND (0.00030)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00095)	ND (0.00078)	ND (0.00071)	ND (0.00085)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00068)	ND (0.00056)	ND (0.00051)	ND (0.00061)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00053)	ND (0.00043)	ND (0.00040)	ND (0.00047)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0023)	ND (0.0019)	ND (0.0018)	ND (0.0021)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00030)	ND (0.00028)	ND (0.00033)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00043)	ND (0.00035)	ND (0.00032)	ND (0.00038)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00028)	ND (0.00023)	ND (0.00021)	ND (0.00025)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00041)	ND (0.00034)	ND (0.00031)	ND (0.00037)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00030)	ND (0.00024)	ND (0.00022)	ND (0.00027)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00026)	ND (0.00022)	ND (0.00020)	ND (0.00024)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.090)	ND (0.074)	ND (0.068)	ND (0.081)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0067)	ND (0.0055)	ND (0.0050)	ND (0.0060)	
2-Hexanone	NC	NC	NC	NC	ND (0.0038)	ND (0.0032)	ND (0.0029)	ND (0.0034)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0041)	ND (0.0034)	ND (0.0031)	ND (0.0036)	
Acetone	0.05	1,000	2.2	0.05	ND (0.010)	ND (0.0084)	ND (0.0077)	ND (0.0092)	
Benzene	0.06	89	70	0.06	0.00063	J ND (0.00017)	ND (0.00015)	ND (0.00018)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00080)	ND (0.00066)	ND (0.00060)	ND (0.00072)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00035)	ND (0.00029)	ND (0.00026)	ND (0.00031)	
Bromoform	NC	NC	NC	NC	ND (0.0012)	ND (0.00096)	ND (0.00088)	ND (0.0010)	
Bromomethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00050)	ND (0.00046)	ND (0.00055)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00030)	ND (0.00025)	ND (0.00023)	ND (0.00027)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00053)	ND (0.00044)	ND (0.00040)	ND (0.00048)	
Chlorobenzene	1	1,000	40	1	0.00059	J ND (0.00041)	0.00058	J ND (0.00045)	
Chloroethane	NC	NC	NC	1.9	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00057)	
Chloroform	0.37	700	12	0.37	ND (0.00075)	ND (0.00062)	ND (0.00056)	ND (0.00067)	
Chloromethane	NC	NC	NC	NC	ND (0.00096)	ND (0.00079)	ND (0.00072)	ND (0.00086)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00050)	ND (0.00041)	ND (0.00037)	ND (0.00045)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00023)	ND (0.00019)	ND (0.00018)	ND (0.00021)	
Cyclohexane	NC	NC	NC	NC	ND (0.00058)	ND (0.00048)	ND (0.00044)	ND (0.00052)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00026)	ND (0.00021)	ND (0.00019)	ND (0.00023)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00041)	ND (0.00037)	ND (0.00044)	
Ethylbenzene	1	780	NC	1	0.00069	J ND (0.00019)	0.0005	J ND (0.00021)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.0011)	ND (0.00091)	ND (0.00083)	ND (0.00099)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00021)	ND (0.00017)	ND (0.00016)	ND (0.00019)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.002		0.0006	J 0.0016	
Methyl acetate	NC	NC	NC	NC	ND (0.0034)	ND (0.0028)	ND (0.0026)	ND (0.0031)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00038)	ND (0.00031)	ND (0.00028)	ND (0.00034)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00035)	ND (0.00029)	ND (0.00027)	ND (0.00032)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00028)	ND (0.00023)	ND (0.00021)	ND (0.00025)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00069	J ND (0.00023)	0.00058	J ND (0.00025)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00029)	ND (0.00024)	ND (0.00021)	ND (0.00026)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00029)	ND (0.00024)	ND (0.00022)	ND (0.00026)	
Toluene	0.7	1,000	36	0.7	0.002	ND (0.00048)	0.0011	J ND (0.00052)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00065)	ND (0.00054)	ND (0.00049)	ND (0.00059)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00052)	ND (0.00043)	ND (0.00039)	ND (0.00047)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00038)	ND (0.00031)	ND (0.00029)	ND (0.00034)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00074)	ND (0.00061)	ND (0.00056)	ND (0.00067)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00071)	ND (0.00059)	ND (0.00053)	ND (0.00064)	
Xylene (total)	0.26	1,000	0.26	1.6	0.0027		J 0.0022	0.00056	
Total VOCs	NC	NC	NC	NC	0.007		0.001	0.004	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-3/3.5	RCH-MM-ENV-3/6	RCH-MM-ENV-4W/3.5	RCH-MM-ENV-4W/7.5
					Lab Sample ID	JA93504-1	JA93504-2	JA93382-3	JA93382-4
					Sampling Date	12/2/2011	12/2/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00032)	ND (0.00036)	ND (0.00028)	ND (0.00029)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00024)	ND (0.00027)	ND (0.00021)	ND (0.00021)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00057)	ND (0.00064)	ND (0.00050)	ND (0.00051)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00029)	ND (0.00032)	ND (0.00025)	ND (0.00026)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00081)	ND (0.00091)	ND (0.00071)	ND (0.00073)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00058)	ND (0.00065)	ND (0.00051)	ND (0.00052)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00045)	ND (0.00051)	ND (0.00040)	ND (0.00040)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0020)	ND (0.0022)	ND (0.0018)	ND (0.0018)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00035)	ND (0.00028)	ND (0.00028)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00036)	ND (0.00041)	ND (0.00032)	ND (0.00033)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00024)	ND (0.00027)	ND (0.00021)	ND (0.00022)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00035)	ND (0.00039)	ND (0.00031)	ND (0.00032)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)	ND (0.00028)	ND (0.00022)	ND (0.00023)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00022)	ND (0.00025)	ND (0.00020)	ND (0.00020)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.077)	ND (0.086)	ND (0.068)	ND (0.069)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0057)	ND (0.0064)	ND (0.0050)	ND (0.0051)	
2-Hexanone	NC	NC	NC	NC	ND (0.0033)	ND (0.0037)	ND (0.0029)	ND (0.0029)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0035)	ND (0.0039)	ND (0.0031)	ND (0.0031)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0087)	ND (0.0098)	ND (0.0077)	ND (0.0079)	
Benzene	0.06	89	70	0.06	ND (0.00018)	ND (0.00020)	ND (0.00015)	ND (0.00016)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00068)	ND (0.00077)	ND (0.00060)	ND (0.00062)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00033)	ND (0.00026)	ND (0.00027)	
Bromoform	NC	NC	NC	NC	ND (0.00099)	ND (0.0011)	ND (0.00088)	ND (0.00090)	
Bromomethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00058)	ND (0.00046)	ND (0.00047)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00026)	ND (0.00029)	ND (0.00023)	ND (0.00023)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00046)	ND (0.00051)	ND (0.00040)	ND (0.00041)	
Chlorobenzene	1	1,000	40	1	ND (0.00042)	ND (0.00048)	ND (0.00037)	ND (0.00038)	
Chloroethane	NC	NC	NC	1.9	ND (0.00054)	ND (0.00061)	ND (0.00047)	ND (0.00048)	
Chloroform	0.37	700	12	0.37	ND (0.00064)	ND (0.00072)	ND (0.00056)	ND (0.00057)	
Chloromethane	NC	NC	NC	NC	ND (0.00082)	ND (0.00093)	ND (0.00073)	ND (0.00074)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00042)	ND (0.00048)	ND (0.00037)	ND (0.00038)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00020)	ND (0.00023)	ND (0.00018)	ND (0.00018)	
Cyclohexane	NC	NC	NC	NC	ND (0.00050)	ND (0.00056)	ND (0.00044)	ND (0.00045)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00022)	ND (0.00025)	ND (0.00020)	ND (0.00020)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00042)	ND (0.00048)	ND (0.00037)	ND (0.00038)	
Ethylbenzene	1	780	NC	1	ND (0.00019)	ND (0.00022)	ND (0.00017)	ND (0.00018)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00094)	ND (0.0011)	ND (0.00083)	ND (0.00085)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00018)	ND (0.00020)	ND (0.00016)	ND (0.00016)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00041)	ND (0.00047)	ND (0.00037)	ND (0.00037)	
Methyl acetate	NC	NC	NC	NC	ND (0.00029)	ND (0.00033)	ND (0.00026)	ND (0.00026)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00032)	ND (0.00036)	ND (0.00028)	ND (0.00029)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00030)	ND (0.00034)	ND (0.00027)	ND (0.00027)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00024)	ND (0.00027)	ND (0.00021)	ND (0.00021)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)	ND (0.00027)	ND (0.00021)	ND (0.00022)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00024)	ND (0.00027)	ND (0.00022)	ND (0.00022)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00025)	ND (0.00028)	ND (0.00022)	ND (0.00023)	
Toluene	0.7	1,000	36	0.7	ND (0.00050)	ND (0.00056)	ND (0.00044)	ND (0.00045)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00056)	ND (0.00063)	ND (0.00049)	ND (0.00050)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00044)	ND (0.00050)	ND (0.00039)	ND (0.00040)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00033)	ND (0.00037)	ND (0.00029)	ND (0.00029)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00063)	ND (0.00072)	ND (0.00056)	ND (0.00057)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00061)	ND (0.00068)	ND (0.00054)	ND (0.00055)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00024)	ND (0.00027)	ND (0.00021)	ND (0.00022)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-5/3	RCH-MM-ENV-5/6	RCH-MM-ENV-6/3	RCH-MM-ENV-6/6.5
					Lab Sample ID	JA93382-5	JA93382-6	JA93382-7	JA93382-8
					Sampling Date	12/1/2011	12/1/2011	12/1/2011	12/1/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00028)	ND (0.00028)	ND (0.00028)	ND (0.00030)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00020)	ND (0.00021)	ND (0.00021)	ND (0.00022)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00049)	ND (0.00050)	ND (0.00051)	ND (0.00053)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00025)	ND (0.00025)	ND (0.00026)	ND (0.00027)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00070)	ND (0.00070)	ND (0.00072)	ND (0.00076)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00050)	ND (0.00050)	ND (0.00052)	ND (0.00054)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00039)	ND (0.00039)	ND (0.00040)	ND (0.00042)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0017)	ND (0.0017)	ND (0.0018)	ND (0.0019)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00027)	ND (0.00028)	ND (0.00029)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00032)	ND (0.00032)	ND (0.00033)	ND (0.00034)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00021)	ND (0.00021)	ND (0.00022)	ND (0.00022)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00030)	ND (0.00030)	ND (0.00031)	ND (0.00033)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00022)	ND (0.00022)	ND (0.00023)	ND (0.00024)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00019)	ND (0.00019)	ND (0.00020)	ND (0.00021)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.067)	ND (0.067)	ND (0.069)	ND (0.072)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0049)	ND (0.0050)	ND (0.0051)	ND (0.0053)	
2-Hexanone	NC	NC	NC	NC	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0031)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0030)	ND (0.0030)	ND (0.0031)	ND (0.0032)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0076)	ND (0.0076)	ND (0.0078)	ND (0.0082)	
Benzene	0.06	89	70	0.06	ND (0.00015)	ND (0.00015)	ND (0.00016)	ND (0.00016)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00059)	ND (0.00059)	ND (0.00061)	ND (0.00064)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00026)	ND (0.00026)	ND (0.00026)	ND (0.00028)	
Bromoform	NC	NC	NC	NC	ND (0.00086)	ND (0.00086)	ND (0.00089)	ND (0.00093)	
Bromomethane	NC	NC	NC	NC	ND (0.00045)	ND (0.00045)	ND (0.00047)	ND (0.00049)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00022)	ND (0.00022)	ND (0.00023)	ND (0.00024)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00040)	ND (0.00040)	ND (0.00041)	ND (0.00043)	
Chlorobenzene	1	1,000	40	1	ND (0.00037)	ND (0.00037)	ND (0.00038)	ND (0.00040)	
Chloroethane	NC	NC	NC	1.9	ND (0.00047)	ND (0.00047)	ND (0.00048)	ND (0.00050)	
Chloroform	0.37	700	12	0.37	ND (0.00055)	ND (0.00055)	ND (0.00057)	ND (0.00060)	
Chloromethane	NC	NC	NC	NC	ND (0.00071)	ND (0.00071)	ND (0.00074)	ND (0.00077)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00037)	ND (0.00037)	ND (0.00038)	ND (0.00040)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00017)	ND (0.00017)	ND (0.00018)	ND (0.00019)	
Cyclohexane	NC	NC	NC	NC	ND (0.00043)	ND (0.00043)	ND (0.00045)	ND (0.00047)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00019)	ND (0.00019)	ND (0.00020)	ND (0.00021)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00037)	ND (0.00037)	ND (0.00038)	ND (0.00040)	
Ethylbenzene	1	780	NC	1	ND (0.00017)	ND (0.00017)	ND (0.00017)	ND (0.00018)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00082)	ND (0.00082)	ND (0.00085)	ND (0.00088)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00016)	ND (0.00016)	ND (0.00016)	ND (0.00017)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00036)	ND (0.00036)	ND (0.00037)	ND (0.00039)	
Methyl acetate	NC	NC	NC	NC	ND (0.00025)	ND (0.00025)	ND (0.00026)	ND (0.00027)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00028)	ND (0.00028)	ND (0.00029)	ND (0.00030)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00026)	ND (0.00026)	ND (0.00027)	ND (0.00028)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00020)	ND (0.00021)	ND (0.00021)	ND (0.00022)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00021)	ND (0.00021)	ND (0.00022)	ND (0.00023)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00021)	ND (0.00021)	ND (0.00022)	ND (0.00023)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00022)	ND (0.00022)	ND (0.00023)	ND (0.00024)	
Toluene	0.7	1,000	36	0.7	ND (0.00043)	ND (0.00043)	ND (0.00045)	ND (0.00047)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00048)	ND (0.00049)	ND (0.00050)	ND (0.00052)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00038)	ND (0.00038)	ND (0.00040)	ND (0.00041)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00028)	ND (0.00028)	ND (0.00029)	ND (0.00030)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00055)	ND (0.00057)	ND (0.00059)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00053)	ND (0.00053)	ND (0.00054)	ND (0.00057)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00021)	ND (0.00021)	ND (0.00022)	ND (0.00023)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND	

Notes:
mg/kg - milligrams per kilogram
(1) - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
(2) - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-7W/3.5	RCH-MM-ENV-7W/7.5	RCH-MM-ENV-8/3	RCH-MM-ENV-8/5
					Lab Sample ID	JA93382-1	JA93382-2	JA93246-1	JA93246-2
					Sampling Date	12/1/2011	12/1/2011	11/30/2011	11/30/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00031)	ND (0.00030)	ND (0.018)	ND (0.00031)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00023)	ND (0.00023)	ND (0.013)	ND (0.00023)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00055)	ND (0.032)	ND (0.00056)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00028)	ND (0.00028)	ND (0.016)	ND (0.00028)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00078)	ND (0.00077)	ND (0.045)	ND (0.00079)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00056)	ND (0.00055)	ND (0.032)	ND (0.00056)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00044)	ND (0.00043)	ND (0.025)	ND (0.00044)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0019)	ND (0.0019)	ND (0.11)	ND (0.0019)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00030)	ND (0.00030)	ND (0.017)	ND (0.00031)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00035)	ND (0.00035)	ND (0.020)	ND (0.00036)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00023)	ND (0.00023)	ND (0.013)	ND (0.00023)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00034)	ND (0.00034)	ND (0.020)	ND (0.00034)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00025)	ND (0.00024)	ND (0.014)	ND (0.00025)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00022)	ND (0.00021)	ND (0.012)	ND (0.00022)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.074)	ND (0.074)	ND (4.3)	ND (0.075)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.00055)	ND (0.00055)	ND (0.32)	ND (0.00056)	
2-Hexanone	NC	NC	NC	NC	ND (0.00032)	ND (0.00031)	ND (0.18)	ND (0.00032)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00034)	ND (0.00033)	ND (0.19)	ND (0.00034)	
Acetone	0.05	1,000	2.2	0.05	ND (0.00085)	ND (0.00084)	ND (0.49)	ND (0.00085)	
Benzene	0.06	89	70	0.06	ND (0.00017)	ND (0.00017)	ND (0.0098)	ND (0.00017)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00066)	ND (0.00066)	ND (0.038)	ND (0.00067)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00028)	ND (0.016)	ND (0.00029)	
Bromoform	NC	NC	NC	NC	ND (0.00097)	ND (0.00095)	ND (0.055)	ND (0.00097)	
Bromomethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00050)	ND (0.029)	ND (0.00051)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00025)	ND (0.00025)	ND (0.014)	ND (0.00025)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00044)	ND (0.00044)	ND (0.025)	ND (0.00044)	
Chlorobenzene	1	1,000	40	1	ND (0.00041)	ND (0.00041)	ND (0.024)	ND (0.00041)	
Chloroethane	NC	NC	NC	1.9	ND (0.00052)	ND (0.00052)	ND (0.030)	ND (0.00052)	
Chloroform	0.37	700	12	0.37	ND (0.00062)	ND (0.00061)	ND (0.035)	ND (0.00062)	
Chloromethane	NC	NC	NC	NC	ND (0.00080)	ND (0.00079)	ND (0.046)	ND (0.00080)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00041)	ND (0.00041)	ND (0.024)	ND (0.00041)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00019)	ND (0.00019)	ND (0.011)	ND (0.00020)	
Cyclohexane	NC	NC	NC	NC	ND (0.00048)	ND (0.00048)	ND (0.028)	ND (0.00049)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00021)	ND (0.00021)	ND (0.012)	ND (0.00022)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00041)	ND (0.024)	ND (0.00041)	
Ethylbenzene	1	780	NC	1	ND (0.00019)	ND (0.00019)	ND (0.011)	ND (0.00019)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00092)	ND (0.00091)	ND (0.053)	ND (0.00092)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00018)	ND (0.00017)	ND (0.010)	ND (0.00018)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00040)	ND (0.00040)	ND (0.023)	ND (0.00040)	
Methyl acetate	NC	NC	NC	NC	ND (0.00028)	ND (0.00028)	ND (0.16)	ND (0.00029)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00031)	ND (0.00031)	ND (0.018)	ND (0.00032)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00029)	ND (0.00029)	ND (0.017)	ND (0.00030)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00023)	ND (0.00023)	ND (0.013)	ND (0.00023)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00024)	ND (0.00023)	ND (0.014)	ND (0.00024)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00024)	ND (0.00023)	ND (0.014)	ND (0.00024)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00024)	ND (0.00024)	ND (0.014)	ND (0.00025)	
Toluene	0.7	1,000	36	0.7	ND (0.00048)	ND (0.00048)	ND (0.028)	ND (0.00049)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00054)	ND (0.00054)	ND (0.031)	ND (0.00055)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00043)	ND (0.00042)	ND (0.025)	ND (0.00043)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00032)	ND (0.00031)	ND (0.018)	ND (0.00032)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00062)	ND (0.00061)	ND (0.035)	ND (0.00062)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00059)	ND (0.00058)	ND (0.034)	ND (0.00059)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00024)	ND (0.00023)	ND (0.014)	ND (0.00024)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND	

Notes:
mg/kg - milligrams per kilogram
(1) - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
(2) - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-9/2	RCH-MM-ENV-9/2A	RCH-MM-ENV-9/6	RCH-MM-ENV-10W/0.5
					Lab Sample ID	JA93099-1A	JA93099-2A	JA93099-5A	JA93099-3A
					Sampling Date	11/29/2011	11/29/2011	11/29/2011	11/29/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00025)	ND (0.00023)	ND (0.00026)	ND (0.00024)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00019)	ND (0.00017)	ND (0.00019)	ND (0.00017)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00045)	ND (0.00042)	ND (0.00047)	ND (0.00042)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00023)	ND (0.00021)	ND (0.00024)	ND (0.00021)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00064)	ND (0.00059)	ND (0.00067)	ND (0.00060)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00046)	ND (0.00042)	ND (0.00048)	ND (0.00043)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00035)	ND (0.00033)	ND (0.00037)	ND (0.00033)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0016)	ND (0.0015)	ND (0.0016)	ND (0.0015)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00025)	ND (0.00023)	ND (0.00026)	ND (0.00023)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00029)	ND (0.00027)	ND (0.00030)	ND (0.00027)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00019)	ND (0.00018)	ND (0.00020)	ND (0.00018)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00028)	ND (0.00026)	ND (0.00029)	ND (0.00026)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00020)	ND (0.00019)	ND (0.00021)	ND (0.00019)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00018)	ND (0.00016)	ND (0.00019)	ND (0.00017)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.061)	ND (0.056)	ND (0.063)	ND (0.057)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0045)	ND (0.0042)	ND (0.0047)	ND (0.0042)	
2-Hexanone	NC	NC	NC	NC	ND (0.00026)	ND (0.00024)	ND (0.00027)	ND (0.00024)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00027)	ND (0.00025)	ND (0.00029)	ND (0.00026)	
Acetone	0.05	1,000	2.2	0.05	ND (0.00069)	ND (0.00064)	ND (0.00072)	ND (0.00065)	
Benzene	0.06	89	70	0.06	ND (0.00014)	ND (0.00013)	ND (0.00014)	ND (0.00013)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00054)	ND (0.00050)	ND (0.00057)	ND (0.00051)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00023)	ND (0.00022)	ND (0.00024)	ND (0.00023)	
Bromoform	NC	NC	NC	NC	ND (0.00079)	ND (0.00073)	ND (0.00082)	ND (0.00074)	
Bromomethane	NC	NC	NC	NC	ND (0.00041)	ND (0.00038)	ND (0.00043)	ND (0.00038)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00020)	ND (0.00019)	ND (0.00021)	ND (0.00019)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00036)	ND (0.00033)	ND (0.00038)	ND (0.00034)	
Chlorobenzene	1	1,000	40	1	ND (0.00034)	ND (0.00031)	ND (0.00035)	ND (0.00031)	
Chloroethane	NC	NC	NC	1.9	ND (0.00042)	ND (0.00039)	ND (0.00044)	ND (0.00040)	
Chloroform	0.37	700	12	0.37	ND (0.00050)	ND (0.00047)	ND (0.00053)	ND (0.00047)	
Chloromethane	NC	NC	NC	NC	ND (0.00065)	ND (0.00060)	ND (0.00068)	ND (0.00061)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00034)	ND (0.00031)	ND (0.00035)	ND (0.00031)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00015)	
Cyclohexane	NC	NC	NC	NC	ND (0.00039)	ND (0.00037)	ND (0.00041)	ND (0.00037)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00017)	ND (0.00016)	ND (0.00018)	ND (0.00016)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00031)	ND (0.00035)	ND (0.00031)	
Ethylbenzene	1	780	NC	1	ND (0.00015)	ND (0.00014)	ND (0.00016)	0.00021 J	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00075)	ND (0.00069)	ND (0.00078)	ND (0.00070)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00014)	ND (0.00013)	ND (0.00015)	ND (0.00013)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00033)	ND (0.00030)	ND (0.00034)	0.00067 J	
Methyl acetate	NC	NC	NC	NC	ND (0.00023)	ND (0.00021)	ND (0.00024)	ND (0.00022)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00025)	ND (0.00024)	ND (0.00027)	ND (0.00024)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00024)	ND (0.00022)	ND (0.00025)	ND (0.00022)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00019)	ND (0.00017)	ND (0.00019)	ND (0.00017)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00019)	ND (0.00018)	ND (0.00020)	0.00023 J	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00019)	ND (0.00018)	ND (0.00020)	ND (0.00018)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00020)	ND (0.00018)	ND (0.00021)	ND (0.00019)	
Toluene	0.7	1,000	36	0.7	ND (0.00039)	ND (0.00036)	ND (0.00041)	ND (0.00037)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00044)	ND (0.00041)	ND (0.00046)	ND (0.00041)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00035)	ND (0.00032)	ND (0.00037)	ND (0.00033)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00026)	ND (0.00024)	ND (0.00027)	ND (0.00024)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00050)	ND (0.00047)	ND (0.00053)	ND (0.00047)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00048)	ND (0.00045)	ND (0.00050)	ND (0.00045)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00019)	ND (0.00018)	ND (0.00020)	0.0009 J	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	0.001	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-10W/7.5	RCH-MM-ENV-11/3	RCH-MM-ENV-11/6	RCH-MM-ENV-12/3.5
					Lab Sample ID	JA93099-4A	JA93029-5	JA93029-6	JA93029-3
					Sampling Date	11/29/2011	11/28/2011	11/28/2011	11/28/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00024)	ND (0.00032)	ND (0.00031)	ND (0.00028)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00018)	ND (0.00024)	ND (0.00023)	ND (0.00021)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00043)	ND (0.00058)	ND (0.00057)	ND (0.00050)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00022)	ND (0.00029)	ND (0.00028)	ND (0.00025)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00061)	ND (0.00083)	ND (0.00080)	ND (0.00071)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00044)	ND (0.00059)	ND (0.00057)	ND (0.00051)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00034)	ND (0.00046)	ND (0.00044)	ND (0.00040)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0015)	ND (0.0020)	ND (0.0020)	ND (0.0017)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00024)	ND (0.00032)	ND (0.00031)	ND (0.00028)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00028)	ND (0.00037)	ND (0.00036)	ND (0.00032)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00018)	ND (0.00025)	ND (0.00024)	ND (0.00021)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00027)	ND (0.00036)	ND (0.00035)	ND (0.00031)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00019)	ND (0.00026)	ND (0.00025)	ND (0.00022)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00017)	ND (0.00023)	ND (0.00022)	ND (0.00020)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.058)	ND (0.078)	ND (0.076)	ND (0.067)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0043)	ND (0.0058)	ND (0.0057)	ND (0.0050)	
2-Hexanone	NC	NC	NC	NC	ND (0.00025)	ND (0.00033)	ND (0.00032)	ND (0.00029)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00026)	ND (0.00035)	ND (0.00034)	ND (0.00030)	
Acetone	0.05	1,000	2.2	0.05	ND (0.00066)	ND (0.00089)	ND (0.00086)	ND (0.00077)	
Benzene	0.06	89	70	0.06	ND (0.00013)	ND (0.00018)	ND (0.00017)	ND (0.00015)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00070)	ND (0.00068)	ND (0.00060)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00022)	ND (0.00030)	ND (0.00029)	ND (0.00026)	
Bromoform	NC	NC	NC	NC	ND (0.00075)	ND (0.0010)	ND (0.00099)	ND (0.00087)	
Bromomethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00053)	ND (0.00051)	ND (0.00046)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00020)	ND (0.00026)	ND (0.00026)	ND (0.00023)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00034)	ND (0.00047)	ND (0.00045)	ND (0.00040)	
Chlorobenzene	1	1,000	40	1	ND (0.00032)	ND (0.00043)	ND (0.00042)	0.00066 J	
Chloroethane	NC	NC	NC	1.9	ND (0.00041)	ND (0.00055)	ND (0.00053)	ND (0.00047)	
Chloroform	0.37	700	12	0.37	ND (0.00048)	ND (0.00065)	ND (0.00063)	ND (0.00056)	
Chloromethane	NC	NC	NC	NC	ND (0.00062)	ND (0.00084)	ND (0.00081)	ND (0.00072)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00032)	ND (0.00043)	ND (0.00042)	ND (0.00037)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00015)	ND (0.00020)	ND (0.00020)	ND (0.00018)	
Cyclohexane	NC	NC	NC	NC	ND (0.00038)	ND (0.00051)	ND (0.00049)	ND (0.00044)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00017)	ND (0.00023)	ND (0.00022)	ND (0.00019)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00032)	ND (0.00043)	ND (0.00042)	ND (0.00037)	
Ethylbenzene	1	780	NC	1	ND (0.00015)	0.00031 J	ND (0.00019)	0.00035 J	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00071)	ND (0.00097)	ND (0.00094)	ND (0.00083)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00014)	ND (0.00018)	ND (0.00018)	ND (0.00016)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00031)	0.00094 J	ND (0.00041)	0.0012	
Methyl acetate	NC	NC	NC	NC	ND (0.00022)	ND (0.00030)	ND (0.00029)	ND (0.00026)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00024)	ND (0.00033)	ND (0.00032)	ND (0.00028)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00023)	ND (0.00031)	ND (0.00030)	ND (0.00027)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00018)	0.00033 J	ND (0.00023)	ND (0.00021)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00018)	0.00036 J	ND (0.00024)	0.00047 J	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00018)	ND (0.00025)	ND (0.00024)	ND (0.00021)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00019)	ND (0.00026)	ND (0.00025)	ND (0.00022)	
Toluene	0.7	1,000	36	0.7	ND (0.00038)	ND (0.00051)	ND (0.00049)	ND (0.00044)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00042)	ND (0.00057)	ND (0.00055)	ND (0.00049)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00033)	ND (0.00045)	ND (0.00044)	ND (0.00039)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00025)	ND (0.00033)	ND (0.00032)	ND (0.00029)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00065)	ND (0.00063)	ND (0.00056)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00046)	ND (0.00062)	ND (0.00060)	ND (0.00053)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00018)	0.0013	ND (0.00024)	0.0017	
Total VOCs	NC	NC	NC	NC	ND	0.002	ND	0.003	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-12/7.5	RCH-MM-ENV-13W/2	RCH-MM-ENV-13W/7.5	RCH-MM-ENV-14/3
					Lab Sample ID	JA93029-4	JA93029-1	JA93029-2	JA92420-1
					Sampling Date	11/28/2011	11/28/2011	11/28/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00029)	ND (0.00028)	ND (0.00031)	ND (0.00029)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00022)	ND (0.00021)	ND (0.00023)	ND (0.00022)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00052)	ND (0.00050)	ND (0.00056)	ND (0.00053)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.00025)	ND (0.00028)	ND (0.00026)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00074)	ND (0.00071)	ND (0.00079)	ND (0.00074)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00053)	ND (0.00051)	ND (0.00056)	ND (0.00053)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00041)	ND (0.00039)	ND (0.00044)	ND (0.00041)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0017)	ND (0.0019)	ND (0.0018)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00028)	ND (0.00031)	ND (0.00029)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00034)	ND (0.00032)	ND (0.00036)	ND (0.00034)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.00021)	ND (0.00023)	ND (0.00022)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00032)	ND (0.00031)	ND (0.00034)	ND (0.00032)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.00022)	ND (0.00025)	ND (0.00023)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00020)	ND (0.00022)	ND (0.00021)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.0070)	ND (0.0067)	ND (0.0075)	ND (0.0071)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0052)	ND (0.0050)	ND (0.0056)	ND (0.0053)	
2-Hexanone	NC	NC	NC	NC	ND (0.00030)	ND (0.00029)	ND (0.00032)	ND (0.00030)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00032)	ND (0.00030)	ND (0.00034)	ND (0.00032)	
Acetone	0.05	1,000	2.2	0.05	ND (0.00080)	ND (0.00077)	ND (0.00085)	ND (0.00080)	
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00015)	ND (0.00017)	ND (0.00016)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00063)	ND (0.00060)	ND (0.00067)	ND (0.00063)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00026)	ND (0.00029)	ND (0.00027)	
Bromoform	NC	NC	NC	NC	ND (0.00091)	ND (0.00087)	ND (0.00097)	ND (0.00092)	
Bromomethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00046)	ND (0.00051)	ND (0.00048)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00024)	ND (0.00023)	ND (0.00025)	ND (0.00024)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00042)	ND (0.00040)	ND (0.00044)	ND (0.00042)	
Chlorobenzene	1	1,000	40	1	0.00051	J 0.00059	J ND (0.00041)	ND (0.00039)	
Chloroethane	NC	NC	NC	1.9	ND (0.00049)	ND (0.00047)	ND (0.00052)	ND (0.00050)	
Chloroform	0.37	700	12	0.37	ND (0.00058)	ND (0.00056)	ND (0.00062)	ND (0.00059)	
Chloromethane	NC	NC	NC	NC	ND (0.00076)	ND (0.00072)	ND (0.00080)	ND (0.00076)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00039)	ND (0.00037)	ND (0.00041)	ND (0.00039)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00018)	ND (0.00020)	ND (0.00018)	
Cyclohexane	NC	NC	NC	NC	ND (0.00046)	ND (0.00044)	ND (0.00049)	ND (0.00046)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00019)	ND (0.00022)	ND (0.00020)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00037)	ND (0.00041)	ND (0.00039)	
Ethylbenzene	1	780	NC	1	ND (0.00018)	0.00033	J ND (0.00019)	ND (0.00018)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00087)	ND (0.00083)	ND (0.00092)	ND (0.00087)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	ND (0.00016)	ND (0.00018)	ND (0.00017)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00071	J 0.0011	J 0.00051	J ND (0.00038)	
Methyl acetate	NC	NC	NC	NC	ND (0.00027)	ND (0.00026)	ND (0.00029)	ND (0.00027)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.00028)	ND (0.00031)	ND (0.00030)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00028)	ND (0.00027)	ND (0.00030)	ND (0.00028)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	0.00039	J ND (0.00021)	ND (0.00023)	ND (0.00022)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	0.00032	J 0.00036	J ND (0.00024)	ND (0.00022)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.00021)	ND (0.00024)	ND (0.00022)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00023)	ND (0.00022)	ND (0.00025)	ND (0.00023)	
Toluene	0.7	1,000	36	0.7	ND (0.00046)	0.00046	J ND (0.00049)	ND (0.00046)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00051)	ND (0.00049)	ND (0.00054)	ND (0.00052)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00041)	ND (0.00039)	ND (0.00043)	ND (0.00041)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00030)	ND (0.00029)	ND (0.00032)	ND (0.00030)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00056)	ND (0.00062)	ND (0.00059)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00056)	ND (0.00053)	ND (0.00059)	ND (0.00056)	
Xylene (total)	0.26	1,000	0.26	1.6	0.001	J 0.0015	0.00051	J ND (0.00022)	
Total VOCs	NC	NC	NC	NC	0.002		0.003	0.001	ND

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-14/3A	RCH-MM-ENV-14/5	RCH-MM-ENV-15/3	RCH-MM-ENV-15/6
					Lab Sample ID	JA92420-2	JA92420-7	JA92264-1	JA92264-2
					Sampling Date	11/17/2011	11/17/2011	11/16/2011	11/16/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00034)	ND (0.00032)	ND (0.00030)	ND (0.00032)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00025)	ND (0.00024)	ND (0.00023)	ND (0.00024)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00061)	ND (0.00058)	ND (0.00055)	ND (0.00057)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00030)	ND (0.00029)	ND (0.00028)	ND (0.00029)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00086)	ND (0.00082)	ND (0.00077)	ND (0.00081)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00061)	ND (0.00059)	ND (0.00055)	ND (0.00058)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00048)	ND (0.00046)	ND (0.00043)	ND (0.00045)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0021)	ND (0.0020)	ND (0.0019)	ND (0.0020)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00033)	ND (0.00032)	ND (0.00030)	ND (0.00031)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00039)	ND (0.00037)	ND (0.00035)	ND (0.00037)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00025)	ND (0.00024)	ND (0.00023)	ND (0.00024)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00037)	ND (0.00036)	ND (0.00034)	ND (0.00035)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00027)	ND (0.00026)	ND (0.00024)	ND (0.00025)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00024)	ND (0.00023)	ND (0.00021)	ND (0.00022)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.081)	ND (0.078)	ND (0.073)	ND (0.077)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0061)	ND (0.0058)	ND (0.0055)	ND (0.0057)	
2-Hexanone	NC	NC	NC	NC	ND (0.0035)	ND (0.0033)	ND (0.0031)	ND (0.0033)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.0037)	ND (0.0035)	ND (0.0033)	ND (0.0035)	
Acetone	0.05	1,000	2.2	0.05	ND (0.0093)	ND (0.0089)	ND (0.0084)	ND (0.0087)	
Benzene	0.06	89	70	0.06	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0018)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00073)	ND (0.00069)	ND (0.00066)	ND (0.00069)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00031)	ND (0.00030)	ND (0.00028)	ND (0.00030)	
Bromoform	NC	NC	NC	NC	ND (0.0011)	ND (0.0010)	ND (0.00095)	ND (0.0010)	
Bromomethane	NC	NC	NC	NC	ND (0.00055)	ND (0.00053)	ND (0.00050)	ND (0.00052)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00027)	ND (0.00026)	ND (0.00025)	ND (0.00026)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00048)	ND (0.00046)	ND (0.00044)	ND (0.00046)	
Chlorobenzene	1	1,000	40	1	ND (0.00045)	ND (0.00043)	ND (0.00041)	ND (0.00043)	
Chloroethane	NC	NC	NC	1.9	ND (0.00057)	ND (0.00055)	ND (0.00052)	ND (0.00054)	
Chloroform	0.37	700	12	0.37	ND (0.00068)	ND (0.00065)	ND (0.00061)	ND (0.00064)	
Chloromethane	NC	NC	NC	NC	ND (0.00087)	ND (0.00083)	ND (0.00079)	ND (0.00082)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00045)	ND (0.00043)	ND (0.00041)	ND (0.00043)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00021)	ND (0.00020)	ND (0.00019)	ND (0.00020)	
Cyclohexane	NC	NC	NC	NC	ND (0.00053)	ND (0.00051)	ND (0.00048)	ND (0.00050)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00023)	ND (0.00022)	ND (0.00021)	ND (0.00022)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00045)	ND (0.00043)	ND (0.00041)	ND (0.00042)	
Ethylbenzene	1	780	NC	1	ND (0.00021)	ND (0.00020)	ND (0.00019)	ND (0.00020)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.0010)	ND (0.00096)	ND (0.00091)	ND (0.00095)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00019)	ND (0.00018)	ND (0.00017)	ND (0.00018)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00044)	ND (0.00042)	ND (0.00040)	ND (0.00041)	
Methyl acetate	NC	NC	NC	NC	ND (0.00031)	ND (0.00030)	ND (0.00028)	ND (0.00029)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00034)	ND (0.00033)	ND (0.00031)	ND (0.00032)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00032)	ND (0.00031)	ND (0.00029)	ND (0.00030)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00025)	ND (0.00024)	ND (0.00023)	ND (0.00024)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00026)	ND (0.00025)	ND (0.00023)	ND (0.00024)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00026)	ND (0.00025)	ND (0.00023)	ND (0.00024)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00027)	ND (0.00026)	ND (0.00024)	ND (0.00025)	
Toluene	0.7	1,000	36	0.7	ND (0.00053)	ND (0.00051)	ND (0.00048)	ND (0.00050)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00059)	ND (0.00057)	ND (0.00054)	ND (0.00056)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00047)	ND (0.00045)	ND (0.00042)	ND (0.00044)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00035)	ND (0.00033)	ND (0.00031)	ND (0.00033)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00067)	ND (0.00064)	ND (0.00061)	ND (0.00064)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00064)	ND (0.00062)	ND (0.00058)	ND (0.00061)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00026)	ND (0.00025)	ND (0.00023)	ND (0.00024)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND	

Notes:
mg/kg - milligrams per kilogram
⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.
⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
NC - No Criterion
SCO - Soil Cleanup Objective
Shading indicates result above applicable SCO.
NA - Not Analyzed
ND (0.00026) - Not Detected (Method Detection Limit)

RCH-MM TRACT PRE-CHARACTERIZATION
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF SOIL SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

					Sample ID	RCH-MM-ENV-16W/3.5	RCH-MM-ENV-16W/7	RCH-MM-ENV-17/3	RCH-MM-ENV-17/6
					Lab Sample ID	JA92420-3	JA92420-4	JA92420-5	JA92420-6
					Sampling Date	11/17/2011	11/17/2011	11/17/2011	11/17/2011
					Matrix	Soil	Soil	Soil	Soil
					Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (VOCs) (mg/kg)	Unrestricted Use SCO	Industrial SCO	Protection of Ecological Resources	Protection of Groundwater SCO	Result	Result	Result	Result	
1,1,1-Trichloroethane (TCA)	0.68	1,000	NC	0.68	ND (0.00029)	ND (0.00030)	ND (0.00033)	ND (0.00032)	
1,1,2,2-Tetrachloroethane	NC	NC	NC	0.6	ND (0.00022)	ND (0.00022)	ND (0.00024)	ND (0.00024)	
1,1,2-Trichloroethane	NC	NC	NC	NC	ND (0.00053)	ND (0.00054)	ND (0.00059)	ND (0.00057)	
1,1-Dichloroethane	0.27	480	NC	0.27	ND (0.00026)	ND (0.00027)	ND (0.00030)	ND (0.00029)	
1,1-Dichloroethene	0.33	1,000	NC	0.33	ND (0.00074)	ND (0.00077)	ND (0.00083)	ND (0.00081)	
1,2,3-Trichlorobenzene	NC	NC	20	NC	ND (0.00053)	ND (0.00055)	ND (0.00060)	ND (0.00058)	
1,2,4-Trichlorobenzene	NC	NC	20	3.4	ND (0.00041)	ND (0.00043)	ND (0.00046)	ND (0.00045)	
1,2,4-Trimethylbenzene	4	380	NC	4	NA	NA	NA	NA	
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	ND (0.0018)	ND (0.0019)	ND (0.0021)	ND (0.0020)	
1,2-Dibromoethane	NC	NC	NC	NC	ND (0.00029)	ND (0.00030)	ND (0.00032)	ND (0.00031)	
1,2-Dichlorobenzene	1	1,000	NC	1	ND (0.00034)	ND (0.00035)	ND (0.00038)	ND (0.00037)	
1,2-Dichloroethane	0.02	60	10	0.02	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00024)	
1,2-Dichloropropane	NC	NC	NC	NC	ND (0.00032)	ND (0.00033)	ND (0.00036)	ND (0.00035)	
1,3,5-Trimethylbenzene	8	380	NC	8	NA	NA	NA	NA	
1,3-Dichlorobenzene	2	560	NC	2	ND (0.00023)	ND (0.00024)	ND (0.00026)	ND (0.00025)	
1,4-Dichlorobenzene	2	250	20	2	ND (0.00021)	ND (0.00021)	ND (0.00023)	ND (0.00022)	
1,4-Dioxane	0.1	250	1	0.1	ND (0.071)	ND (0.073)	ND (0.079)	ND (0.077)	
2-Butanone (MEK)	0.12	1,000	100	0.12	ND (0.0053)	ND (0.0054)	ND (0.0059)	ND (0.0057)	
2-Hexanone	NC	NC	NC	NC	ND (0.00030)	ND (0.00031)	ND (0.00034)	ND (0.00033)	
4-Methyl-2-pentanone	NC	NC	NC	1	ND (0.00032)	ND (0.00033)	ND (0.00036)	ND (0.00035)	
Acetone	0.05	1,000	2.2	0.05	ND (0.00080)	ND (0.00083)	ND (0.00090)	ND (0.00087)	
Benzene	0.06	89	70	0.06	ND (0.00016)	ND (0.00017)	ND (0.00018)	ND (0.00018)	
Bromochloromethane	NC	NC	NC	NC	ND (0.00063)	ND (0.00065)	ND (0.00071)	ND (0.00068)	
Bromodichloromethane	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00031)	ND (0.00030)	
Bromoform	NC	NC	NC	NC	ND (0.00092)	ND (0.00095)	ND (0.0010)	ND (0.0010)	
Bromomethane	NC	NC	NC	NC	ND (0.00048)	ND (0.00049)	ND (0.00054)	ND (0.00052)	
Carbon disulfide	NC	NC	NC	2.7	ND (0.00024)	ND (0.00025)	ND (0.00027)	ND (0.00026)	
Carbon tetrachloride	0.76	44	NC	0.76	ND (0.00042)	ND (0.00043)	ND (0.00047)	ND (0.00046)	
Chlorobenzene	1	1,000	40	1	ND (0.00039)	ND (0.00040)	ND (0.00044)	ND (0.00042)	
Chloroethane	NC	NC	NC	1.9	ND (0.00049)	ND (0.00051)	ND (0.00056)	ND (0.00054)	
Chloroform	0.37	700	12	0.37	ND (0.00059)	ND (0.00061)	ND (0.00066)	ND (0.00064)	
Chloromethane	NC	NC	NC	NC	ND (0.00076)	ND (0.00078)	ND (0.00085)	ND (0.00082)	
cis-1,2-Dichloroethene	0.25	1,000	NC	0.25	ND (0.00039)	ND (0.00040)	ND (0.00044)	ND (0.00042)	
cis-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00018)	ND (0.00019)	ND (0.00021)	ND (0.00020)	
Cyclohexane	NC	NC	NC	NC	ND (0.00046)	ND (0.00048)	ND (0.00052)	ND (0.00050)	
Dibromochloromethane	NC	NC	10	NC	ND (0.00020)	ND (0.00021)	ND (0.00023)	ND (0.00022)	
Dichlorodifluoromethane	NC	NC	NC	NC	ND (0.00039)	ND (0.00040)	ND (0.00044)	ND (0.00042)	
Ethylbenzene	1	780	NC	1	ND (0.00018)	ND (0.00019)	ND (0.00020)	ND (0.00020)	
Freon TF ⁽²⁾	NC	NC	NC	6	ND (0.00087)	ND (0.00090)	ND (0.00098)	ND (0.00095)	
Isopropylbenzene	NC	NC	NC	2.3	ND (0.00017)	ND (0.00017)	ND (0.00019)	ND (0.00018)	
m&p-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00038)	ND (0.00039)	ND (0.00043)	ND (0.00041)	
Methyl acetate	NC	NC	NC	NC	ND (0.00027)	ND (0.00028)	ND (0.00030)	ND (0.00029)	
Methylcyclohexane	NC	NC	NC	NC	ND (0.00030)	ND (0.00031)	ND (0.00033)	ND (0.00032)	
Methylene Chloride	0.05	1,000	12	0.05	ND (0.00028)	ND (0.00029)	ND (0.00031)	ND (0.00030)	
Methyl tert-butyl ether (MTBE)	0.93	1,000	NC	0.93	ND (0.00022)	ND (0.00022)	ND (0.00024)	ND (0.00024)	
n-Butylbenzene	12	1,000	NC	12	NA	NA	NA	NA	
n-Propylbenzene	3.9	1,000	NC	4	NA	NA	NA	NA	
o-Xylene	0.26 ⁽¹⁾	1,000 ⁽¹⁾	0.26	1.6 ⁽¹⁾	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00024)	
p-Isopropyltoluene	NC	NC	NC	NC	NA	NA	NA	NA	
sec-Butylbenzene	11	1,000	NC	11	NA	NA	NA	NA	
Styrene	NC	NC	300	NC	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00024)	
tert-Butylbenzene	5.9	1,000	NC	6	NA	NA	NA	NA	
Tetrachloroethene (PCE)	1.3	300	2	1.3	ND (0.00023)	ND (0.00024)	ND (0.00026)	ND (0.00025)	
Toluene	0.7	1,000	36	0.7	ND (0.00046)	ND (0.00047)	ND (0.00051)	ND (0.00050)	
trans-1,2-Dichloroethene	0.19	1,000	NC	0.19	ND (0.00051)	ND (0.00053)	ND (0.00058)	ND (0.00056)	
trans-1,3-Dichloropropene	NC	NC	NC	NC	ND (0.00041)	ND (0.00042)	ND (0.00046)	ND (0.00044)	
Trichloroethene (TCE)	0.47	400	2	0.47	ND (0.00030)	ND (0.00031)	ND (0.00034)	ND (0.00033)	
Trichlorofluoromethane	NC	NC	NC	NC	ND (0.00058)	ND (0.00060)	ND (0.00066)	ND (0.00064)	
Vinyl chloride	0.02	27	NC	0.02	ND (0.00056)	ND (0.00058)	ND (0.00063)	ND (0.00061)	
Xylene (total)	0.26	1,000	0.26	1.6	ND (0.00022)	ND (0.00023)	ND (0.00025)	ND (0.00024)	
Total VOCs	NC	NC	NC	NC	ND	ND	ND	ND	

Notes:

mg/kg - milligrams per kilogram

⁽¹⁾ - The SCO for m/p xylene and o-xylene applies to Total Xylenes.

⁽²⁾ - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

NC - No Criterion

SCO - Soil Cleanup Objective

Shading indicates result above applicable SCO.

NA - Not Analyzed

ND (0.00026) - Not Detected (Method Detection Limit)