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

	Sample ID	1R-22.1H-ENV-1W		1R-22.1-ENV-3W		1R-22.1-ENV-6W		
	Lab Sample ID	7/7/2011		JA80170-1		JA80288-2		
	Sampling Date	JA80288-1		7/6/2011		40731		
	Matrix	Ground Water		Ground Water		Ground Water		
	Units	µg/L		µg/L		µg/L		
METALS (ppb)	**Class GA Values (µg/L)**	Result		Result		Result		
Aluminum	NC	NA		NA		NA		
Antimony	3	<1.0		<0.50		<1.0		
Arsenic	25	8.1		5		2		
Barium	1000	NA		NA		NA		
Beryllium	3	<1.0		<0.50		<1.0		
Cadmium	5	<1.0		<0.50		<1.0		
Calcium	NC	NA		NA		NA		
Chromium (Total)	50	2.2		<4.0		8.5		
Cobalt	NC	NA		NA		NA		
Copper	200	4.9		14.9		3.2		
Cyanide (Total)	200	NA		NA		NA		
Iron	300	NA		NA		NA		
Lead	25	<1.0		<0.50		<1.0		
Magnesium	35000	NA		NA		NA		
Manganese	300	NA		NA		NA		
Mercury (Total)	0.7	<0.20		<0.20		<0.20		
Nickel	100	12.4		36.8		<2.0		
Potassium	NC	NA		NA		NA		
Selenium	10	<1.0		<1.0		<1.0		
Silver	50	<1.0		<2.0		<1.0		
Sodium	20000	NA		NA		NA		
Thallium	0.5	<1.0[a]		<0.50		<1.0[a]		
Vanadium	NC	NA		NA		NA		
Zinc	2000	11		173		<4.0		

Notes:

[a] - Reporting limit exceeds SPDES

µg/L - micrograms per liter

NA - Not Analyzed

NC - No Criterion

<0.50 - Less than Reporting Limit

Highlight indicates standard exceedence

1R-22.1 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	1R-22.1H-1W		1R-22.1-ENV-3W		1R-22.1-ENV-6W		Trip Blank		TB1		TB2	
Lab Sample ID			7/7/2011		JA80170-1		JA80288-2		JA80170-2		JA80288-3		JA80288-4	
Sampling Date			JA80288-1		7/6/2011		7/7/2011		7/6/2011		7/7/2011		7/7/2011	
Matrix			Ground Water		Ground Water		Ground Water		Trip Blank Water		Trip Blank Water		Trip Blank Water	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.16	b	6.16	b	6.85	b	NA		NA		NA	
Temperature	Degrees C	NC	18.21		16.59		17.88		NA		NA		NA	
Antimony	µg/L	63	<1.0		<0.50		<1.0		NA		NA		NA	
Arsenic	µg/L	NC	8.1		5		2		NA		NA		NA	
Beryllium	µg/L	11	<1.0		<0.50		<1.0		NA		NA		NA	
Cadmium	µg/L	2.7	<1.0		<0.50		<1.0		NA		NA		NA	
Chromium	µg/L	NC	2.2		<4.0		8.5		NA		NA		NA	
Copper	µg/L	61	4.9		14.9		3.2		NA		NA		NA	
Lead	µg/L	219	<1.0		<0.50		<1.0		NA		NA		NA	
Mercury	µg/L	0.0026	<0.20		<0.20[a]		<0.20[a]		NA		NA		NA	
Nickel	µg/L	NC	12.4		36.8		<2.0		NA		NA		NA	
Selenium	µg/L	50	<1.0		<1.0		<1.0		NA		NA		NA	
Silver	µg/L	50	<1.0		<2.0		<1.0		NA		NA		NA	
Thallium	µg/L	50	<1.0		<0.50		<1.0		NA		NA		NA	
Zinc	µg/L	66	11		173		<4.0		NA		NA		NA	
Nitrate+Nitrite	mg/L	NC	<0.10		<0.10		0.11		NA		NA		NA	
Oil & Grease	mg/L	15	<5.1		<5.1		<5.1		NA		NA		NA	
Total Suspended Solids	mg/L	50	215		27		55		NA		NA		NA	
Settleable Solids	ml/L	NC	2.5		<0.10		<0.10		NA		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)		ND (0.21)	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.53)		ND (0.53)		ND (0.53)		ND (0.53)		ND (0.53)		ND (0.53)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.66)		ND (0.66)		ND (0.66)		ND (0.66)		ND (0.66)		ND (0.66)	
Bromodichloromethane (h)	µg/L	NC	ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)		ND (0.29)	
Bromoform (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane (h)	µg/L	NC	ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)	
Chlorobenzene (h)	µg/L	NC	ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)	
Chloroform (h)	µg/L	NC	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chloromethane (h)	µg/L	NC	ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Dibromochloromethane (h)	µg/L	NC	ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.64)		ND (0.64)		ND (0.64)		ND (0.64)		ND (0.64)		ND (0.64)	
Methylene Chloride (h)	µg/L	NC	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.51)		ND (0.51)		ND (0.51)		ND (0.51)		ND (0.51)		ND (0.51)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
Trichloroethene (h)	µg/L	26	ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)		ND (0.25)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
Vinyl chloride (h)	µg/L	NC	ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)	
Benzene (a)	µg/L	100	ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
Chlorobenzene (a)	µg/L	NC	ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)		ND (0.26)	
Ethylbenzene (a)	µg/L	100	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
Toluene (a)	µg/L	100	ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)		ND (0.24)	
Xylenes, Total (a)	µg/L	100	ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)		ND (0.35)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND		ND		ND	

Notes:

NA - Not analyzed

NC - No criterion

ND (0.26) - Not detected (above method detection limit)

HF - Field Parameter with a holding time of 15 minutes.

SPDES - State Pollutant Discharge Elimination System.

TB - Trip Blank

su - standard unit

mg/L - milligrams per liter

µg/L - micrograms/liter

* - Recovery or RPD exceeds control limits

b - Sample received out of holding time for pH analysis.

(a) - Aromatic Volatiles

(h) - Halogenated Volatiles

Highlighted results indicate concentration exceeds the SPDES Typical Daily Max Limit

[a] - Reporting limit exceeds SPDES

1R-22.1 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCS)

		Sample ID	1R-22.1H-ENV-1W	1R-22.1-ENV-3W	1R-22.1-ENV-6W
		Lab Sample ID	7/7/2011	JA80170-1	JA80288-2
		Sampling Date	JA80288-1	7/6/2011	7/7/2011
		Matrix	Ground Water	Ground Water	Ground Water
		Units	µg/L	µg/L	µg/L
VOLATILE ORGANIC COMPOUNDS (VOCs)	**Class GA Values (µg/L)**		Result	Result	Result
1,1,1-Trichloroethane (TCA)	**5**		ND (0.21)	ND (0.21)	ND (0.21)
1,1,2,2-Tetrachloroethane	5		ND (0.16)	ND (0.16)	ND (0.16)
1,1,2-Trichloroethane	1		ND (0.21)	ND (0.21)	ND (0.21)
1,1-Dichloroethane	5		ND (0.30)	ND (0.30)	ND (0.30)
1,1-Dichloroethene	5		ND (0.24)	ND (0.24)	ND (0.24)
1,2,3-Trichlorobenzene	5		NA	NA	NA
1,2,4-Trichlorobenzene	5		NA	NA	NA
1,2,4-Trimethylbenzene	5		NA	NA	NA
1,2-Dibromo-3-Chloropropane	0.04		NA	NA	NA
1,2-Dibromoethane	0.0006		NA	NA	NA
1,2-Dichlorobenzene	3		ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dichloroethane	0.6		ND (0.53)	ND (0.53)	ND (0.53)
1,2-Dichloropropane	1		ND (0.12)	ND (0.12)	ND (0.12)
1,3,5-Trimethylbenzene	5		NA	NA	NA
1,3-Dichlorobenzene	3		ND (0.15)	ND (0.15)	ND (0.15)
1,4-Dichlorobenzene	3		ND (0.24)	ND (0.24)	ND (0.24)
1,4-Dioxane	NC		NA	NA	NA
2-Butanone (MEK)	50		NA	NA	NA
2-Hexanone	50		NA	NA	NA
4-Methyl-2-pentanone	NC		NA	NA	NA
Acetone	50		NA	NA	NA
Benzene	1		ND (0.27)	ND (0.27)	ND (0.27)
Bromochloromethane	5		NA	NA	NA
Bromodichloromethane	50		ND (0.29)	ND (0.29)	ND (0.29)
Bromoform	50		ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane	5		ND (0.23)	ND (0.23)	ND (0.23)
Carbon disulfide	60		NA	NA	NA
Carbon tetrachloride	5		ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	5		ND (0.26)	ND (0.26)	ND (0.26)
Chloroethane	5		NA	NA	NA
Chloroform	7		ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane	5		ND (0.16)	ND (0.16)	ND (0.16)
cis-1,2-Dichloroethene	5		NA	NA	NA
cis-1,3-Dichloropropene	0.4[(a)]		ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	NC		NA	NA	NA
Dibromochloromethane	50		ND (0.23)	ND (0.23)	ND (0.23)
Dichlorodifluoromethane	5		ND (0.64)	ND (0.64)	ND (0.64)
Ethylbenzene	5		ND (0.22)	ND (0.22)	ND (0.22)
Freon TF[(1)]	5		NA	NA	NA
Isopropylbenzene	5		NA	NA	NA
m&p-Xylene	5[(b)]		NA	NA	NA
Methyl acetate	NC		NA	NA	NA
Methylcyclohexane	NC		NA	NA	NA
Methylene Chloride	5		ND (0.17)	ND (0.17)	ND (0.17)
Methyl tert-butyl ether (MTBE)	10		ND (0.26)	ND (0.26)	ND (0.26)
n-Butylbenzene	5		NA	NA	NA
N-Propylbenzene	5		NA	NA	NA
o-Xylene	5[(b)]		NA	NA	NA
p-Isopropyltoluene	5		NA	NA	NA
sec-Butylbenzene	5		NA	NA	NA
Styrene	5		NA	NA	NA
tert-Butylbenzene	5		NA	NA	NA
Tetrachloroethene (PCE)	5		ND (0.51)	ND (0.51)	ND (0.51)
Toluene	5		ND (0.24)	ND (0.24)	ND (0.24)
trans-1,2-Dichloroethene	5		ND (0.35)	ND (0.35)	ND (0.35)
trans-1,3-Dichloropropene	0.4[(a)]		ND (0.20)	ND (0.20)	ND (0.20)
Trichloroethene (TCE)	5		ND (0.25)	ND (0.25)	ND (0.25)
Trichlorofluoromethane	5		ND (0.20)	ND (0.20)	ND (0.20)
Vinyl chloride	2		ND (0.16)	ND (0.16)	ND (0.16)
Total VOCs	NC		ND	ND	ND

Notes:

µg/L - micrograms per liter

NA - Not Analyzed

ND (0.21) -Not detected (above method detection limit)

NC - No Criterion

[(a)] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

[(b)] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.

NC - No Criterion

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

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

	Sample ID	NYC-2-ENV-1W	
	Lab Sample ID	JA89876-1	
	Sampling Date	10/21/2011	
	Matrix	Ground Water	
	Units	µg/L	
METALS	Class GA Values (µg/L)	Result	
Aluminum	NC	NA	
Antimony	3	<0.50	
Arsenic	25	<1.0	
Barium	1,000	NA	
Beryllium	3	NA	
Cadmium	5	<0.50	
Calcium	NC	NA	
Chromium (Total)	50	<4.0	
Cobalt	NC	NA	
Copper	200	<4.0	
Cyanide (Total)	200	NA	
Iron	300	NA	
Lead	25	<0.50	
Magnesium	35,000	NA	
Manganese	300	NA	
Mercury (Total)	0.7	**0.8**	
Nickel	100	<4.0	
Potassium	NC	NA	
Selenium	10	<1.0	
Silver	50	<2.0	
Sodium	20,000	NA	
Thallium	0.5	<0.50	
Vanadium	NC	NA	
Zinc	2,000	<4.0	

Notes:

µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
Bold with yellow highlight indicates concentration above NY Drinking Water Standard
<0.50 - Less than the Reporting Limit

NYC-2 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF THE RESULTS FOR GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBS)

	Sample ID	NYC-2-ENV-1W	
	Lab Sample ID	JA89876-1	
	Sampling Date	10/21/2011	
	Matrix	Ground Water	
	Units	µg/L	
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)	Result	
Aroclor 1016	NC	ND (0.0094)	
Aroclor 1221	NC	ND (0.047)	
Aroclor 1232	NC	ND (0.039)	
Aroclor 1242	NC	ND (0.016)	
Aroclor 1248	NC	ND (0.015)	
Aroclor 1254	NC	ND (0.011)	
Aroclor 1260	NC	ND (0.012)	
Aroclor 1262	NC	NA	
Aroclor 1268	NC	NA	
Total PCBs	0.09	NA	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA - Not Analyzed
ND (0.0094) - Not detected above (Method Detection Limit)

NYC-2 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	NYC-2-ENV-1W		TB	
Lab Sample ID			JA89876-1		JA89876-2	
Sampling Date			10/21/2011		10/21/2011	
Matrix			Ground Water		Ground Water	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**	
pH (range) (HF)	su	6-9	7.35	b	NA	
Temperature	Degrees C	NC	NA		NA	
Antimony	µg/L	63	<0.50		NA	
Arsenic	µg/L	NC	<1.0		NA	
Beryllium	µg/L	11	<0.50		NA	
Cadmium	µg/L	2.7	<0.50		NA	
Chromium	µg/L	NC	<4.0		NA	
Copper	µg/L	61	<4.0		NA	
Lead	µg/L	219	<0.50		NA	
Mercury	µg/L	0.0026	**0.8**		NA	
Nickel	µg/L	NC	<4.0		NA	
Selenium	µg/L	50	<1.0		NA	
Silver	µg/L	50	<2.0		NA	
Thallium	µg/L	50	<0.50		NA	
Zinc	µg/L	66	<4.0		NA	
Nitrate+Nitrite	mg/L	NC	<0.11		NA	
Oil & Grease	mg/L	15	<5.1		NA	
Total Suspended Solids	mg/L	50	**178**		NA	
Settleable Solids	ml/L	NC	<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	0.23	J	ND (0.18)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		ND (0.23)	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		ND (0.14)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		ND (0.30)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		ND (0.11)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		ND (0.39)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		ND (0.18)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		ND (0.22)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		ND (0.89)	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		ND (0.15)	
Bromoform (h)	µg/L	NC	ND (0.19)		ND (0.19)	
Bromomethane (h)	µg/L	NC	ND (0.28)		ND (0.28)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		ND (0.17)	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		ND (0.19)	
Chloroform (h)	µg/L	NC	0.24	J	ND (0.15)	
Chloromethane (h)	µg/L	NC	ND (0.20)		ND (0.20)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		ND (0.12)	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		ND (0.18)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		ND (0.72)	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		ND (0.31)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		ND (0.19)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		ND (0.18)	
Trichloroethene (h)	µg/L	26	ND (0.17)		ND (0.17)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		ND (0.60)	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		ND (0.18)	
Total Halogenated Volatiles	µg/L	NC	0.24		0.24	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		ND (0.11)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		ND (0.22)	
Benzene (a)	µg/L	100	ND (0.28)		ND (0.28)	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		ND (0.19)	
Ethylbenzene (a)	µg/L	100	ND (0.18)		ND (0.18)	
Toluene (a)	µg/L	100	ND (0.12)		ND (0.12)	
Xylenes, Total (a)	µg/L	100	ND (0.17)		ND (0.17)	
Total Aromatic Volatiles	µg/L	NC	ND		ND	

Notes:
b = Sample received out of holding time for pH analysis.
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.16) - Not detected (above method detection limit)
HF = Field Parameter with a holding time of 15 minutes.
SPDES = State Pollutant Discharge Elimination System.
su = standard unit
mg/L = milligrams per liter
µg/L = micrograms/liter
<0.50 = Less than the method detection limit
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
Bold with yellow highlight indicates concentration exceeding NY SPDES

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

		Sample ID	NYC-2-ENV-1W		TB	
		Lab Sample ID	JA89876-1		JA89876-2	
		Sampling Date	10/21/2011		10/21/2011	
		Matrix	Ground Water		Ground Water	
		Units	µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Result		Result	
1,1,1-Trichloroethane (TCA)	5		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5		ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA	
1,2-Dichlorobenzene	3		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6		ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5		NA		NA	
1,3-Dichlorobenzene	3		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC		NA		NA	
2-Butanone (MEK)	50		NA		NA	
2-Hexanone	50		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA	
Acetone	50		NA		NA	
Benzene	1		ND (0.28)		ND (0.28)	
Bromochloromethane	5		NA		NA	
Bromodichloromethane	50		ND (0.15)		ND (0.15)	
Bromoform	50		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.28)		ND (0.28)	
Carbon disulfide	60		NA		NA	
Carbon tetrachloride	5		ND (0.17)		ND (0.17)	
Chlorobenzene	5		ND (0.19)		ND (0.19)	
Chloroethane	5		NA		NA	
Chloroform	7		0.24	J	ND (0.15)	
Chloromethane	5		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5		NA		NA	
cis-1,3-Dichloropropene	0.4[a]		ND (0.12)		ND (0.12)	
Cyclohexane	NC		NA		NA	
Dibromochloromethane	50		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5		ND (0.72)		ND (0.72)	
Ethylbenzene	5		ND (0.18)		ND (0.18)	
Freon TF[1]	5		NA		NA	
Isopropylbenzene	5		NA		NA	
m&p-Xylene	5[b]		NA		NA	
Methyl acetate	NC		NA		NA	
Methylcyclohexane	NC		NA		NA	
Methylene Chloride	5		ND (0.31)		ND (0.31)	
Methyl tert-butyl ether (MTBE)	10		0.23	J	NA	
n-Butylbenzene	5		NA		NA	
N-Propylbenzene	5		NA		NA	
o-Xylene	5[b]		NA		NA	
p-Isopropyltoluene	5		NA		NA	
sec-Butylbenzene	5		NA		NA	
Styrene	5		NA		NA	
tert-Butylbenzene	5		NA		NA	
Tetrachloroethene (PCE)	5		ND (0.19)		ND (0.19)	
Toluene	5		ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[a]		ND (0.18)		ND (0.18)	
Trichloroethene (TCE)	5		ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5		ND (0.60)		ND (0.60)	
Vinyl chloride	2		ND (0.18)		ND (0.18)	
Total VOCs	NC		0.47		ND	

Notes:

[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.

[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion
NA = Not Analyzed
ND (0.16) = Not Detected above (Method Detection Limit)
µg/L - micrograms per liter
J - Value is estimated

NYC-4 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SURFACE SAMPLES FOR GENERAL CHEMISTRY

Sample ID	NYC-4H-ENV-5W		NYC-4H-ENV-5W	
Lab Sample ID	JB15634-1		JB15634-2	
Sampling Date	9/6/2012		9/6/2012	
Matrix	Surface Water		Ground Water	
Units	mg/L		mg/L	
General Chemistry				
Alkalinity, Bicarbonate	91.5		168	
Alkalinity, Total as CaCO3	91.7		168	
Chloride	11400		12100	
HEM Oil and Grease	<6.1		<5.6	
Solids, Total Dissolved	20200		21400	
Sulfate	1480		1580	

Notes:
mg/L - milligrams per liter
<6.1 - Less than the reporting limit

NYC-4 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SURFACE SAMPLES FOR METALS

Sample ID	NYC-4H-ENV-5W		NYC-4H-ENV-5W	
Lab Sample ID	JB15634-1		JB15634-2	
Sampling Date	9/6/2012		9/6/2012	
Matrix	Surface Water		Ground Water	
Units	µg/L		µg/L	
METALS				
Calcium	207000		261000	
Magnesium	686000		673000	
Potassium	267000		253000	
Sodium	4910000		4970000	

Notes:
µg/L - micrograms per liter

NYC-4 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SURFACE SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

Sample ID	NYC-4H-ENV-5W		NYC-4H-ENV-5W	
Lab Sample ID	JB15634-1		JB15634-2	
Sampling Date	9/6/2012		9/6/2012	
Matrix	Surface Water		Ground Water	
Units	µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)				
Benzene	ND (0.16)		ND (0.16)	
Toluene	ND (0.16)		ND (0.16)	
Ethylbenzene	ND (0.23)		ND (0.23)	
Xylene (total)	ND (0.14)		ND (0.14)	

Notes:
µg/L - micrograms per liter
ND (0.16) - Not Detected Above Method Detection Limit

RCH-3 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	RCH-3-ENV-2W		RCH-3-ENV-2W		TRIP BLANK	
Lab Sample ID			JB15509-1/1A		JB15509-1F/1AF		JB15509-2	
Sampling Date			9/5/2012		9/5/2012		9/5/2012	
Matrix			Ground Water		Ground Water (Filtered)		Trip Blank	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.43	c	NA		NA	
Temperature	Degrees C	NC	NA		NA		NA	
Antimony	µg/L	63	3.8		3.5		NA	
Arsenic	µg/L	NC	3.3		2.8		NA	
Beryllium	µg/L	11	<0.50		<0.50		NA	
Cadmium	µg/L	2.7	<0.50		<0.50		NA	
Chromium	µg/L	NC	<4.0		<4.0		NA	
Copper	µg/L	61	5.8 (<10)		<4.0 (<10)		NA	
Lead	µg/L	219	19.6 (24.6)		0.79 (3.6)		NA	
Mercury	µg/L	0.0026	<0.20		<0.20		NA	
Nickel	µg/L	NC	5.4 (<10)		<4.0 (<10)		NA	
Selenium	µg/L	50	2.1		1.6		NA	
Silver	µg/L	50	<2.0		<2.0		NA	
Thallium	µg/L	50	<0.50		<0.50		NA	
Zinc	µg/L	66	223 (261)		191 (210)		NA	
Nitrate+Nitrite	mg/L	NC	0.13		NA		NA	
Oil & Grease	mg/L	15	<5.1		NA		NA	
Total Suspended Solids	mg/L	50	27		NA		NA	
Settleable Solids	ml/L	NC	<0.10		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.25)		NA		ND (0.25)	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.26)		NA		ND (0.26)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.68)		NA		ND (0.68)	
Bromodichloromethane (h)	µg/L	NC	ND (0.095)		NA		ND (0.095)	
Bromoform (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)	
Bromomethane (h)	µg/L	NC	ND (0.25)		NA		ND (0.25)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Chlorobenzene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Chloroform (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)	
Chloromethane (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)	
Dibromochloromethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.21)		NA		ND (0.21)	
Methylene Chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.21)		NA		ND (0.21)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Trichloroethene (h)	µg/L	26	ND (0.19)		NA		ND (0.19)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
Vinyl chloride (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.23)		NA		ND (0.23)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
Benzene (a)	µg/L	100	ND (0.22)		NA		ND (0.22)	
Chlorobenzene (a)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)	
Toluene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)	
Xylenes, Total (a)	µg/L	100	ND (0.14)		NA		ND (0.14)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND	

Notes:
Bold and highlighted indicates concentration above SPDES Typical Daily Max Limit
J - Value is estimated
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
c - Sample received out of holding time for pH analysis.
<0.50 - Less than the method detection limit

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

	Sample ID	RCH-1-ENV-2W		RCH-1-ENV-2W	
	Lab Sample ID	JB25479-1/1A		JB25479-1F/1AF	
	Sampling Date	1/3/2013		1/3/2013	
	Matrix	Ground Water		Ground Water	
	Units	µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Result		Result	
Aluminum	NC	NA		NA	
Antimony	3	<0.50		<0.50	
Arsenic	25	1.4		<1.0	
Barium	1,000	NA		NA	
Beryllium	3	<0.50		<0.50	
Cadmium	5	0.85 (<3.0)		1 (<3.0)	
Calcium	NC	NA		NA	
Chromium (Total)	50	5.5		<4.0	
Cobalt	NC	NA		NA	
Copper	200	<4.0 (<10)		<4.0 (<10)	
Cyanide (Total)	200	NA		NA	
Iron	300	NA		NA	
Lead	25	3.1 (<3.0)		<0.50 (<3.0)	
Magnesium	35,000	NA		NA	
Manganese	300	NA		NA	
Mercury (Total)	0.7	<0.20		<0.20	
Nickel	100	7.1 (<10)		4.9 (<10)	
Potassium	NC	NA		NA	
Selenium	10	<1.0		<1.0	
Silver	50	<2.0		<2.0	
Sodium	20,000	NA		NA	
Thallium	0.5	<0.50		<0.50	
Vanadium	NC	NA		NA	
Zinc	2,000	23 (28.8)		15.4 (22.6)	

Standards:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.50 - Less than the reporting limit

RCH-1 TRACT
MANHATTAN, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID: Lab Sample ID: Sampling Date: Matrix:		NYCDEP Sewer Use Discharge Parameters		RCH-1-ENV-2W JB25479-1/1A 1/3/2013 Ground Water		RCH-1-ENV-2W JB25479-1F/1AF 1/3/2013 Ground Water Filtered		TRIP BLANK JB25479-2 1/3/2013 Trip Blank Water	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**						
Non-polar material (HEM Petroleum Hydrocarbons)	mg/L	50	NC	<5.1		NA		NA	
pH (range)	su	5-12	NC	6.31	c	NA		NA	
Temperature	Degrees F	<150	NC	NA		NA		NA	
Flash Point	Degrees F	>140	NC	>200		NA		NA	
Cadmium**	µg/L	2,000	NC	0.85 (<3.0)		1 (<3.0)		NA	
Chromium (VI)	µg/L	5000	NC	<0.010		NA		NA	
Copper	µg/L	5,000	NC	<4.0 (<10)		<4.0 (<10)		NA	
Lead	µg/L	2,000	NC	3.1 (<3.0)		<0.50 (<3.0)		NA	
Mercury	µg/L	50	NC	<0.20		<0.20		NA	
Nickel	µg/L	3,000	NC	7.1 (<10)		4.9 (<10)		NA	
Zinc	µg/L	5,000	NC	23 (28.8)		15.4 (22.6)		NA	
Benzene (a)	µg/L	134	57	ND (0.22)		NA		ND (0.22)	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.14)		NA		ND (0.14)	
Chloroform (h)	µg/L	NC	NC	ND (0.11)		NA		ND (0.11)	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		NA		ND (0.22)	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA		ND (0.18)	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA		ND (0.18)	
Naphthalene (a)	µg/L	47	19	ND (0.40)		NA		NA	
Phenolics	mg/L	NC	NC	<0.20		NA		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA		ND (0.19)	
Toluene (a)	µg/L	74	28	ND (0.18)		NA		ND (0.18)	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.43)		NA		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.20)		NA		ND (0.20)	
Xylenes, Total (a)	µg/L	74	28	ND (0.14)		NA		ND (0.14)	
PCB's (Total)	µg/L	1	NC	ND		NA		NA	
Total Suspended Solids	mg/L	350	NC	102		NA		NA	
CBOD	mg/L	NC	NC	<3.4		NA		NA	
Chloride	mg/L	NC	NC	5740		NA		NA	
Total Nitrogen	mg/L	NC	NC	1	b	NA		NA	
Total Solids	mg/L	NC	NC	10600		NA		NA	

Legend:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated sample detection limit due to difficult sample matrix.
b - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
c - Sample received out of holding time for pH analysis.

RCH-1 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

Sample ID		RCH-1-ENV-2W
Lab Sample ID		JB25479-1
Sampling Date		1/3/2013
Matrix		Ground Water
Units		µg/L
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)	Result
Aroclor 1016	NC	ND (0.0096)
Aroclor 1221	NC	ND (0.048)
Aroclor 1232	NC	ND (0.040)
Aroclor 1242	NC	ND (0.017)
Aroclor 1248	NC	ND (0.016)
Aroclor 1254	NC	ND (0.011)
Aroclor 1260	NC	ND (0.012)
Aroclor 1262	NC	NA
Aroclor 1268	NC	NA
Total PCBs	0.09	NA

Standards:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
ND (0.0096) - Not detected above (Method Detection Limit)

RCH-1 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES SPDES DISCHARGE PARAMETERS

Sample ID: Lab Sample ID: Sampling Date: Matrix:		SPDES Discharge Parameters	RCH-1-ENV-2W JB25479-1/1A 1/3/2013 Ground Water		RCH-1-ENV-2W JB25479-1F/1AF 1/3/2013 Ground Water (Filtered)		TRIP BLANK JB25479-2 1/3/2013 Trip Blank	
PARAMETERS	**Units**	**Typical Daily Max Limit**						
pH (range) (HF)	su	6-9	6.31	c	NA		NA	
Temperature	Degrees C	NC	NA		NA		NA	
Antimony	µg/L	63	<0.50		<0.50		NA	
Arsenic	µg/L	NC	1.4		<1.0		NA	
Beryllium	µg/L	11	<0.50		<0.50		NA	
Cadmium	µg/L	2.7	0.85 (<3.0)		1 (<3.0)		NA	
Chromium	µg/L	NC	5.5		<4.0		NA	
Copper	µg/L	61	<4.0 (<10)		<4.0 (<10)		NA	
Lead	µg/L	219	3.1 (<3.0)		<0.50 (<3.0)		NA	
Mercury	µg/L	0.0026	<0.20		<0.20		NA	
Nickel	µg/L	NC	7.1 (<10)		4.9 (<10)		NA	
Selenium	µg/L	50	<1.0		<1.0		NA	
Silver	µg/L	50	<2.0		<2.0		NA	
Thallium	µg/L	50	<0.50		<0.50		NA	
Zinc	µg/L	66	23 (28.8)		15.4 (22.6)		NA	
Nitrate+Nitrite	mg/L	NC	0.43		NA		NA	
Oil & Grease	mg/L	15	<5.1		NA		NA	
Total Suspended Solids	mg/L	50	102		NA		NA	
Settleable Solids	ml/L	NC	0.25		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.25)		NA		ND (0.25)	
1,1-Dichloroethane (h)	µg/L	NC	0.8	J	NA		ND (0.20)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.26)		NA		ND (0.26)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.68)		NA		ND (0.68)	
Bromodichloromethane (h)	µg/L	NC	ND (0.095)		NA		ND (0.095)	
Bromoform (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)	
Bromomethane (h)	µg/L	NC	ND (0.25)		NA		ND (0.25)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Chlorobenzene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Chloroform (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)	
Chloromethane (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)	
Dibromochloromethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.21)		NA		ND (0.21)	
Methylene Chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.21)		NA		ND (0.21)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)	
Trichloroethene (h)	µg/L	26	ND (0.19)		NA		ND (0.19)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)	
Vinyl chloride (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)	
Total Halogenated Volatiles	µg/L	NC	0.80		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.23)		NA		ND (0.23)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)	
Benzene (a)	µg/L	100	ND (0.22)		NA		ND (0.22)	
Chlorobenzene (a)	µg/L	NC	ND (0.18)		NA		ND (0.18)	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)	
Toluene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)	
Xylenes, Total (a)	µg/L	100	ND (0.14)		NA		ND (0.14)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND	

Standards:
Bold and highlighted indicates concentration above SPDES Typical Daily Max Limit
J - Value is estimated
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
c - Sample received out of holding time for pH analysis.
<0.50 - Less than the method detection limit

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

	Sample ID	RCH-1-ENV-2W		TRIP BLANK		
	Lab Sample ID	JB25479-1		JB25479-2		
	Sampling Date	1/3/2013		1/3/2013		
	Matrix	Ground Water		Ground Water		
	Units	µg/L		µg/L		
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Result		Result		
1,1,1-Trichloroethane (TCA)	5	ND (0.20)		ND (0.20)		
1,1,2,2-Tetrachloroethane	5	ND (0.20)		ND (0.20)		
1,1,2-Trichloroethane	1	ND (0.25)		ND (0.25)		
1,1-Dichloroethane	5	0.8	J	ND (0.20)		
1,1-Dichloroethene	5	ND (0.28)		ND (0.28)		
1,2,3-Trichlorobenzene	5	NA		NA		
1,2,4-Trichlorobenzene	5	NA		NA		
1,2,4-Trimethylbenzene	5	NA		NA		
1,2-Dibromo-3-Chloropropane	0.04	NA		NA		
1,2-Dibromoethane	0.0006	NA		NA		
1,2-Dichlorobenzene	3	ND (0.23)		ND (0.23)		
1,2-Dichloroethane	0.6	ND (0.28)		ND (0.28)		
1,2-Dichloropropane	1	ND (0.14)		ND (0.14)		
1,3,5-Trimethylbenzene	5	NA		NA		
1,3-Dichlorobenzene	3	ND (0.19)		ND (0.19)		
1,4-Dichlorobenzene	3	ND (0.19)		ND (0.19)		
1,4-Dioxane	NC	NA		NA		
2-Butanone (MEK)	50	NA		NA		
2-Hexanone	50	NA		NA		
4-Methyl-2-pentanone	NC	NA		NA		
Acetone	50	NA		NA		
Benzene	1	ND (0.22)		ND (0.22)		
Bromochloromethane	5	NA		NA		
Bromodichloromethane	50	ND (0.095)		ND (0.095)		
Bromoform	50	ND (0.16)		ND (0.16)		
Bromomethane	5	ND (0.25)		ND (0.25)		
Carbon disulfide	60	NA		NA		
Carbon tetrachloride	5	ND (0.14)		ND (0.14)		
Chlorobenzene	5	ND (0.18)		ND (0.18)		
Chloroethane	5	NA		NA		
Chloroform	7	ND (0.11)		ND (0.11)		
Chloromethane	5	ND (0.27)		ND (0.27)		
cis-1,2-Dichloroethene	5	NA		NA		
cis-1,3-Dichloropropene	0.4[(a)]	ND (0.12)		ND (0.12)		
Cyclohexane	NC	NA		NA		
Dibromochloromethane	50	ND (0.14)		ND (0.14)		
Dichlorodifluoromethane	5	ND (0.21)		ND (0.21)		
Ethylbenzene	5	ND (0.18)		ND (0.18)		
Freon TF[(1)]	5	NA		NA		
Isopropylbenzene	5	NA		NA		
m&p-Xylene	5[(b)]	NA		NA		
Methyl acetate	NC	NA		NA		
Methylcyclohexane	NC	NA		NA		
Methylene Chloride	5	ND (0.18)		ND (0.18)		
Methyl tert-butyl ether (MTBE)	10	ND (0.18)		ND (0.18)		
n-Butylbenzene	5	NA		NA		
N-Propylbenzene	5	NA		NA		
o-Xylene	5[(b)]	NA		NA		
p-Isopropyltoluene	5	NA		NA		
sec-Butylbenzene	5	NA		NA		
Styrene	5	NA		NA		
tert-Butylbenzene	5	NA		NA		
Tetrachloroethene (PCE)	5	ND (0.19)		ND (0.19)		
Toluene	5	ND (0.18)		ND (0.18)		
trans-1,2-Dichloroethene	5	ND (0.14)		ND (0.14)		
trans-1,3-Dichloropropene	0.4[(a)]	ND (0.14)		ND (0.14)		
Trichloroethene (TCE)	5	ND (0.19)		ND (0.19)		
Trichlorofluoromethane	5	ND (0.20)		ND (0.20)		
Vinyl chloride	2	ND (0.15)		ND (0.15)		
Total VOCs	NC	0.80		ND		

Legend:
µg/L - micrograms per liter
NC - No Criterion
[(a)] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[(b)] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
NC - No Criterion
[(1)] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA = Not Analyzed
ND (0.20) - Not Detected Above Method Detection Limit
J - Value is estimated

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

	Sample ID	RCH-2-ENV-3W		RCH-2-ENV-3W	
	Lab Sample ID	JA83047-1		JA83047-1F	
	Sampling Date	8/8/2011		8/8/2011	
	Matrix	Ground Water		Ground Water Filtered	
	Units	µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Result		Result	
Aluminum	NC	NA		NA	
Antimony	3	2.3	a	2.4	
Arsenic	25	**26.1**	a	13.7	
Barium	1,000	NA		NA	
Beryllium	3	1.3	a	<0.50	
Cadmium	5	<1.0	a	<0.50	
Calcium	NC	NA		NA	
Chromium (Total)	50	**74**	a	5.1	
Cobalt	NC	NA		NA	
Copper	200	47.4	a	<4.0	
Cyanide (Total)	200	NA		NA	
Iron	300	NA		NA	
Lead	25	**61.2**	a	<0.50	
Magnesium	35,000	NA		NA	
Manganese	300	NA		NA	
Mercury (Total)	0.7	<0.40	a	<0.20	
Nickel	100	51.8	a	9	
Potassium	NC	NA		NA	
Selenium	10	2.2	a	<1.0	
Silver	50	<4.0	a	<2.0	
Sodium	20,000	NA		NA	
Thallium	0.5	**<1.0**	a	<0.50	
Vanadium	NC	NA		NA	
Zinc	2,000	155	a	4.2	

Notes:
µg/L - micrograms per liter
U - Analyte was not detected.
NC - No Criterion
NA = Not Analyzed
Bold with yellow highlight indicates concentration above NY Drinking Water Standar
<1.0 - Less than the Method Detection Limit

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

		Sample ID	RCH-2-ENV-3W		TRIP BLANK	
		Lab Sample ID	JA83047-1		JA83047-2	
		Sampling Date	8/8/2011		8/8/2011	
		Matrix	Ground Water		Ground Water	
		Units	µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Result		Result	
1,1,1-Trichloroethane (TCA)	5		ND (0.21)		ND (0.21)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.21)		ND (0.21)	
1,1-Dichloroethane	5		ND (0.30)		ND (0.30)	
1,1-Dichloroethene	5		ND (0.24)		ND (0.24)	
1,2,3-Trichlorobenzene	5		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA	
1,2-Dichlorobenzene	3		ND (0.22)		ND (0.22)	
1,2-Dichloroethane	0.6		ND (0.53)		ND (0.53)	
1,2-Dichloropropane	1		ND (0.12)		ND (0.12)	
1,3,5-Trimethylbenzene	5		NA		NA	
1,3-Dichlorobenzene	3		ND (0.15)		ND (0.15)	
1,4-Dichlorobenzene	3		ND (0.24)		ND (0.24)	
1,4-Dioxane	NC		NA		NA	
2-Butanone (MEK)	50		NA		NA	
2-Hexanone	50		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA	
Acetone	50		NA		NA	
Benzene	1		ND (0.27)		ND (0.27)	
Bromochloromethane	5		NA		NA	
Bromodichloromethane	50		ND (0.29)		ND (0.29)	
Bromoform	50		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.23)		ND (0.23)	
Carbon disulfide	60		NA		NA	
Carbon tetrachloride	5		ND (0.14)		ND (0.14)	
Chlorobenzene	5		ND (0.26)		ND (0.26)	
Chloroethane	5		NA		NA	
Chloroform	7		ND (0.17)		ND (0.17)	
Chloromethane	5		ND (0.16)		ND (0.16)	
cis-1,2-Dichloroethene	5		NA		NA	
cis-1,3-Dichloropropene	0.4[a]		ND (0.19)		ND (0.19)	
Cyclohexane	NC		NA		NA	
Dibromochloromethane	50		ND (0.23)		ND (0.23)	
Dichlorodifluoromethane	5		ND (0.64)		ND (0.64)	
Ethylbenzene	5		ND (0.22)		ND (0.22)	
Freon TF[1]	5		NA		NA	
Isopropylbenzene	5		NA		NA	
m&p-Xylene	5[b]		NA		NA	
Methyl acetate	NC		NA		NA	
Methylcyclohexane	NC		NA		NA	
Methylene Chloride	5		ND (0.17)		ND (0.17)	
Methyl tert-butyl ether (MTBE)	10		NA		NA	
n-Butylbenzene	5		NA		NA	
N-Propylbenzene	5		NA		NA	
o-Xylene	5[b]		NA		NA	
p-Isopropyltoluene	5		NA		NA	
sec-Butylbenzene	5		NA		NA	
Styrene	5		NA		NA	
tert-Butylbenzene	5		NA		NA	
Tetrachloroethene (PCE)	5		ND (0.51)		ND (0.51)	
Toluene	5		ND (0.24)		ND (0.24)	
trans-1,2-Dichloroethene	5		ND (0.35)		ND (0.35)	
trans-1,3-Dichloropropene	0.4[a]		ND (0.20)		ND (0.20)	
Trichloroethene (TCE)	5		ND (0.25)		ND (0.25)	
Trichlorofluoromethane	5		ND (0.20)		ND (0.20)	
Vinyl chloride	2		ND (0.16)		ND (0.16)	
Total VOCs	NC		ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
NC - No Criterion
[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA = Not Analyzed
ND (0.21) - Not Detected Above Method Detection Limit

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

	Sample ID	RCH-3-ENV-2W		RCH-3-ENV-2W	
	Lab Sample ID	JB15509-1/1A		JB15509-1F/1AF	
	Sampling Date	9/5/2012		9/5/2012	
	Matrix	Ground Water		Ground Water (Filtered)	
	Units	µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Result		Result	
Aluminum	NC	NA		NA	
Antimony	3	**3.8**		**3.5**	
Arsenic	25	3.3		2.8	
Barium	1,000	NA		NA	
Beryllium	3	<0.50		<0.50	
Cadmium	5	<0.50		<0.50	
Calcium	NC	NA		NA	
Chromium	50	<4.0		<4.0	
Cobalt	NC	NA		NA	
Copper	200	5.8		<4.0	
Cyanide (Total)	200	NA		NA	
Iron	300	NA		NA	
Lead	25	24.6		3.6	
Magnesium	35,000	NA		NA	
Manganese	300	NA		NA	
Mercury	0.7	<0.20		<0.20	
Nickel	100	5.4		<4.0	
Potassium	NC	NA		NA	
Selenium	10	2.1		1.6	
Silver	50	<20		<2.0	
Sodium	20,000	NA		NA	
Thallium	0.5	<0.50		<0.50	
Vanadium	NC	NA		NA	
Zinc	2,000	261		210	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
Bold with yellow highlight indicates concentration above NY Drinking Water Standard
<0.50 - Less than the Method Detection Limit

RCH-3 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		RCH-3-ENV-2W		RCH-3-ENV-2W		TRIP BLANK	
Lab Sample ID				JB15509-1/1A		JB15509-1F/1AF		JB15509-2	
Sampling Date				9/5/2012		9/5/2012		9/5/2012	
Matrix				Ground Water		Ground Water Filtered		Trip Blank Water	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Result**		**Result**	
Non-polar material (HEM Petroleum Hydrocarbons)	mg/L	50	NC	<5.1		NA		NA	
pH (range)	su	5-12	NC	6.43	c	NA		NA	
Temperature	Degrees F	<150	NC	NA		NA		NA	
Flash Point	Degrees F	>140	NC	>200		NA		NA	
Cadmium**	µg/L	2,000	NC	<0.50		<0.50		NA	
Chromium (VI)	µg/L	5000	NC	<0.010		NA		NA	
Copper	µg/L	5,000	NC	5.8 (<10)		<4.0 (<10)		NA	
Lead	µg/L	2,000	NC	19.6 (24.6)		0.79 (3.6)		NA	
Mercury	µg/L	50	NC	<0.20		<0.20		NA	
Nickel	µg/L	3,000	NC	5.4 (<10)		<4.0 (<10)		NA	
Zinc	µg/L	5,000	NC	223 (261)		191 (210)		NA	
Benzene (a)	µg/L	134	57	ND (0.22)		NA		ND (0.22)	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.14)		NA		ND (0.14)	
Chloroform (h)	µg/L	NC	NC	ND (0.11)		NA		ND (0.11)	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.19)		NA		ND (0.19)	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA		ND (0.18)	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA		ND (0.18)	
Naphthalene (a)	µg/L	47	19	ND (0.33)		NA		NA	
Phenolics	mg/L	NC	NC	<0.20		NA		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA		ND (0.19)	
Toluene (a)	µg/L	74	28	ND (0.18)		NA		ND (0.18)	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.35)		NA		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.20)		NA		ND (0.20)	
Xylenes, Total (a)	µg/L	74	28	ND (0.14)		NA		ND (0.14)	
PCB's (Total)	µg/L	1	NC	ND		NA		NA	
Total Suspended Solids	mg/L	350	NC	27		NA		NA	
CBOD	mg/L	NC	NC	<5.0		NA		NA	
Chloride	mg/L	NC	NC	14.4		NA		NA	
Total Nitrogen	mg/L	NC	NC	0.65	b	NA		NA	
Total Solids	mg/L	NC	NC	590		NA		NA	

Notes:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
b - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
c - Sample received out of holding time for pH analysis.

RCH-3 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

	Sample ID	RCH-3-ENV-2W	
	Lab Sample ID	JB15509-1	
	Sampling Date	9/5/2012	
	Matrix	Ground Water	
	Units	µg/L	
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)		
Aroclor 1016	NC	ND (0.0094)	
Aroclor 1221	NC	ND (0.047)	
Aroclor 1232	NC	ND (0.039)	
Aroclor 1242	NC	ND (0.016)	
Aroclor 1248	NC	ND (0.015)	
Aroclor 1254	NC	ND (0.011)	
Aroclor 1260	NC	ND (0.012)	
Aroclor 1262	NC	NA	
Aroclor 1268	NC	NA	
Total PCBs	0.09	NA	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
ND (0.0094) - Not detected above (Method Detection Limit)

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

	Sample ID	RCH-3-ENV-2W		TRIP BLANK	
	Lab Sample ID	JB15509-1		JB15509-2	
	Sampling Date	9/5/2012		9/5/2012	
	Matrix	Ground Water		Trip Blank	
	Units	µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Result		Result	
1,1,1-Trichloroethane	5	ND (0.20)		ND (0.20)	
1,1,2,2-Tetrachloroethane	5	ND (0.20)		ND (0.20)	
1,1,2-Trichloroethane	1	ND (0.25)		ND (0.25)	
1,1-Dichloroethane	5	ND (0.20)		ND (0.20)	
1,1-Dichloroethene	5	ND (0.28)		ND (0.28)	
1,2,3-Trichlorobenzene	5	NA		NA	
1,2,4-Trichlorobenzene	5	NA		NA	
1,2,4-Trimethylbenzene	5	NA		NA	
1,2-Dibromo-3-Chloropropane	0.04	NA		NA	
1,2-Dibromoethane	0.0006	NA		NA	
1,2-Dichlorobenzene	3	ND (0.23)		ND (0.23)	
1,2-Dichloroethane	0.6	ND (0.26)		ND (0.26)	
1,2-Dichloropropane	1	ND (0.14)		ND (0.14)	
1,3,5-Trimethylbenzene	5	NA		NA	
1,3-Dichlorobenzene	3	ND (0.19)		ND (0.19)	
1,4-Dichlorobenzene	3	ND (0.19)		ND (0.19)	
1,4-Dioxane	NC	NA		NA	
2-Butanone (MEK)	50	NA		NA	
2-Hexanone	50	NA		NA	
4-Methyl-2-pentanone	NC	NA		NA	
Acetone	50	NA		NA	
Benzene	1	ND (0.22)		ND (0.22)	
Bromochloromethane	5	NA		NA	
Bromodichloromethane	50	ND (0.095)		ND (0.095)	
Bromoform	50	ND (0.16)		ND (0.16)	
Bromomethane	5	ND (0.25)		ND (0.25)	
Carbon disulfide	60	NA		NA	
Carbon tetrachloride	5	ND (0.14)		ND (0.14)	
Chlorobenzene	5	ND (0.18)		ND (0.18)	
Chloroethane	5	NA		NA	
Chloroform	7	ND (0.11)		ND (0.11)	
Chloromethane	5	ND (0.27)		ND (0.27)	
cis-1,2-Dichloroethene	5	NA		NA	
cis-1,3-Dichloropropene	0.4[a]	ND (0.12)		ND (0.12)	
Cyclohexane	NC	NA		NA	
Dibromochloromethane	50	ND (0.14)		ND (0.14)	
Dichlorodifluoromethane	5	ND (0.21)		ND (0.21)	
Ethylbenzene	5	ND (0.18)		ND (0.18)	
Freon TF[1]	5	NA		NA	
Isopropylbenzene	5	NA		NA	
m&p-Xylene	5[b]	NA		NA	
Methyl acetate	NC	NA		NA	
Methylcyclohexane	NC	NA		NA	
Methylene Chloride	5	ND (0.18)		ND (0.18)	
Methyl tert butyl ether	10	ND (0.18)		ND (0.18)	
n-Butylbenzene	5	NA		NA	
N-Propylbenzene	5	NA		NA	
o-Xylene	5[b]	NA		NA	
p-Isopropyltoluene	5	NA		NA	
sec-Butylbenzene	5	NA		NA	
Styrene	5	NA		NA	
tert-Butylbenzene	5	NA		NA	
Tetrachloroethene	5	ND (0.19)		ND (0.19)	
Toluene	5	ND (0.18)		ND (0.18)	
trans-1,2-Dichloroethene	5	ND (0.21)		ND (0.21)	
trans-1,3-Dichloropropene	0.4[a]	ND (0.14)		ND (0.14)	
Trichloroethene	5	ND (0.19)		ND (0.19)	
Trichlorofluoromethane	5	ND (0.20)		ND (0.20)	
Vinyl chloride	2	ND (0.15)		ND (0.15)	
Total VOCs	NC	ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
NC - No Criterion
[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA = Not Analyzed
ND (0.20) - Not Detected Above Method Detection Limit
J - Value is estimated

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR METALS AND CYANIDE

	Sample ID	RCH-4H-ENV-2W			RCH-4H-ENV-2W			RCH-4H-ENV-5W			RCH-4H-ENV-5W			RCH-4-ENV-20W		
	Lab Sample ID	JA86430-1			JA86430-1F			JA86687-2			JA86687-2F			JB3922-1		
	Sampling Date	9/16/2011			9/16/2011			9/20/2011			9/20/2011			4/11/2012		
	Matrix	Ground Water			Ground Water			Ground Water			Ground Water			Ground Water		
	Units	µg/L			µg/L			µg/L			µg/L			µg/L		
METALS AND CYANIDE	Class GA Values (µg/L)	Unfiltered			Filtered			Unfiltered			Filtered			Unfiltered		
Aluminum	NC	NA			NA			NA			NA			NA		
Antimony	3	**<5.0**		a	<0.50			<0.50			<0.50			<0.50		
Arsenic	25	**102**		a	3.7			6.4			10.2			**55.4**		
Barium	1,000	NA			NA			NA			NA			NA		
Beryllium	3	**<5.0**		a	<0.50			<0.50			<0.50			<0.50		
Cadmium	5	<5.0		a	<0.50			<0.50			<0.50			<0.50		
Calcium	NC	NA			NA			NA			NA			NA		
Chromium (Total)	50	**133**		a	<4.0			<4.0			<4.0			4.8		
Cobalt	NC	NA			NA			NA			NA			NA		
Copper	200	153		a	<4.0			<4.0			<4.0			<4.0		
Cyanide (Total)	200	NA			NA			NA			NA			55		
Iron	300	NA			NA			NA			NA			NA		
Lead	25	**83.3**		a	<0.50			0.92			<0.50			1.4		
Magnesium	35,000	NA			NA			NA			NA			NA		
Manganese	300	NA			NA			NA			NA			NA		
Mercury (Total)	0.7	<0.20			<0.20			<0.20			<0.20			<0.20		
Nickel	100	**149**		a	<4.0			<4.0			<4.0			<4.0		
Potassium	NC	NA			NA			NA			NA			NA		
Selenium	10	<10		a	<1.0			<1.0			<1.0			<1.0		
Silver	50	<20		a	<2.0			<2.0			<2.0			<2.0		
Sodium	20,000	NA			NA			NA			NA			NA		
Thallium	0.5	**<5.0**		a	<0.50			<0.50			<0.50			<0.50		
Vanadium	NC	NA			NA			NA			NA			NA		
Zinc	2,000	473		a	8.5			17.7			<6.5			12.8		

Notes:

a - Elevated sample detection limit due to difficult sample matrix.
µg/L - micrograms per liter
NC - No Criterion
Bold with yellow highlight indicates concentration above NY GA Class Values

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-4-ENV-20W		RCH-4-ENV-25W		RCH-4-ENV-25W		RCH-4-ENV-29W		RCH-4-ENV-29W	
		Lab Sample ID	JB3922-1F		JB3820-1		JB3820-1F		JB3508-1		JB3508-1F	
		Sampling Date	4/11/2012		4/10/2012		4/10/2012		4/5/2012		4/5/2012	
		Matrix	Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
		Units	µg/L		µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)		Filtered		Unfiltered		Filtered		Unfiltered		Filtered	
Aluminum	NC		NA		NA		NA		NA		NA	
Antimony	3		<0.50		<1.0		<0.50		0.78		<0.50	
Arsenic	25		**64.3**		13.5		9.7		17.9		8.9	
Barium	1,000		NA		NA		NA		NA		NA	
Beryllium	3		<0.50		<1.0		<0.50		0.79		<0.50	
Cadmium	5		<0.50		<1.0		<0.50		<0.50		<0.50	
Calcium	NC		NA		NA		NA		NA		NA	
Chromium (Total)	50		<4.0		31.4	a	<4.0		20.4		<4.0	
Cobalt	NC		NA		NA		NA		NA		NA	
Copper	200		<4.0		22.3	a	<4.0		54.6		<4.0	
Cyanide (Total)	200		55		<0.010		<0.010		<0.010		<0.010	
Iron	300		NA		NA		NA		NA		NA	
Lead	25		<0.50		11.2		<0.50		**47.5**		<0.50	
Magnesium	35,000		NA		NA		NA		NA		NA	
Manganese	300		NA		NA		NA		NA		NA	
Mercury (Total)	0.7		<0.20		<0.20		<0.20		<0.80	a	<0.20	
Nickel	100		<4.0		25.6	a	<4.0		18		<4.0	
Potassium	NC		NA		NA		NA		NA		NA	
Selenium	10		<1.0		<2.0		<1.0		<1.0		<1.0	
Silver	50		<2.0		<4.0		<2.0		<2.0		<2.0	
Sodium	20,000		NA		NA		NA		NA		NA	
Thallium	0.5		<0.50		<1.0		<0.50		<0.50		<0.50	
Vanadium	NC		NA		NA		NA		NA		NA	
Zinc	2,000		8.9		65.5		7		63.3		<4.0	

Notes:

a - Elevated sample detection limit due to difficult sample matrix.
µg/L - micrograms per liter
NC - No Criterion
Bold with yellow highlight indicates concentration above NY GA Class Values

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR METALS AND CYANIDE

		Sample ID	RCH-4-ENV-33W		RCH-4-ENV-33W		FBGW040312		FBGW040312	
		Lab Sample ID	JB3233-2		JB3233-2F		JB3233-1		JB3233-1F	
		Sampling Date	4/3/2012		4/3/2012		4/3/2012		4/3/2012	
		Matrix	Ground Water		Ground Water		Field Blank		Field Blank	
		Units	µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)		Unfiltered		Filtered		Unfiltered		Filtered	
Aluminum	NC		NA		NA		NA		NA	
Antimony	3		<0.50		<0.50		<0.50		<0.50	
Arsenic	25		NA		NA		NA		NA	
Barium	1,000		<1.0		<1.0		<1.0		<1.0	
Beryllium	3		<0.50		<0.50		<0.50		<0.50	
Cadmium	5		<0.50		<0.50		<0.50		<0.50	
Calcium	NC		NA		NA		NA		NA	
Chromium (Total)	50		<4.0		<4.0		<4.0		<4.0	
Cobalt	NC		NA		NA		NA		NA	
Copper	200		<4.0		<4.0		<4.0		<4.0	
Cyanide (Total)	200		<0.010		<0.010		<0.010		<0.010	
Iron	300		NA		NA		NA		NA	
Lead	25		<0.50		<0.50		<0.50		<0.50	
Magnesium	35,000		NA		NA		NA		NA	
Manganese	300		NA		NA		NA		NA	
Mercury (Total)	0.7		<0.20		<0.20		<0.20		<0.20	
Nickel	100		<4.0		<4.0		<4.0		<4.0	
Potassium	NC		NA		NA		NA		NA	
Selenium	10		<1.0		<1.0		<1.0		<1.0	
Silver	50		<2.0		<2.0		<2.0		<2.0	
Sodium	20,000		NA		NA		NA		NA	
Thallium	0.5		<0.50		<0.50		<0.50		<0.50	
Vanadium	NC		1		NA		NA		NA	
Zinc	2,000		8.1		10.6		<4.0		<4.0	

Notes:

a - Elevated sample detection limit due to difficult sample matrix.
µg/L - micrograms per liter
NC - No Criterion
Bold with yellow highlight indicates concentration above NY GA Class Values

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

		Sample ID	RCH-4H-ENV-5W		RCH-4-ENV-20W		RCH-4-ENV-25W		RCH-4-ENV-29W	
		Lab Sample ID	JA86686-3		JB3922-1		JB3820-1		JB3508-1	
		Sampling Date	9/20/2011		4/11/2012		4/10/2012		4/5/2012	
		Matrix	Ground Water		Ground Water		Ground Water		Ground Water	
		Units	µg/L		µg/L		µg/L		µg/L	
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)		Results		Results		Results		Results	
Aroclor 1016	NC		ND (0.0099)		ND (0.0094)		ND (0.0098)		ND (0.0098)	
Aroclor 1221	NC		ND (0.049)		ND (0.047)		ND (0.049)		ND (0.049)	
Aroclor 1232	NC		ND (0.041)		ND (0.039)		ND (0.041)		ND (0.041)	
Aroclor 1242	NC		ND (0.017)		ND (0.016)		ND (0.017)		ND (0.017)	
Aroclor 1248	NC		ND (0.016)		ND (0.015)		ND (0.016)		ND (0.016)	
Aroclor 1254	NC		ND (0.011)		ND (0.011)		ND (0.011)		ND (0.011)	
Aroclor 1260	NC		ND (0.012)		ND (0.012)		ND (0.012)		ND (0.012)	
Total PCBs	0.09		ND		ND		ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
ND (0.0094) - Not detected above Method Detection Limit

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

		Sample ID	RCH-4-ENV-33W		FB GW 092011		FBGW040312	
		Lab Sample ID	JB3233-2		JA86686-1		JB3233-1	
		Sampling Date	4/3/2012		9/20/2011		4/3/2012	
		Matrix	Ground Water		Ground Water		Field Blank	
		Units	µg/L		µg/L		µg/L	
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)		Results		Results		Results	
Aroclor 1016	NC		ND (0.0094)		ND (0.0094)		ND (0.010)	
Aroclor 1221	NC		ND (0.047)		ND (0.047)		ND (0.052)	
Aroclor 1232	NC		ND (0.039)		ND (0.039)		ND (0.043)	
Aroclor 1242	NC		ND (0.016)		ND (0.016)		ND (0.018)	
Aroclor 1248	NC		ND (0.015)		ND (0.015)		ND (0.017)	
Aroclor 1254	NC		ND (0.011)		ND (0.011)		ND (0.012)	
Aroclor 1260	NC		ND (0.012)		ND (0.012)		ND (0.013)	
Total PCBs	0.09		ND		ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
ND (0.0094) - Not detected above Method Detecti

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

		Sample ID	RCH-4H-ENV-2W		RCH-4H-ENV-5W		RCH-4-ENV-20W		RCH-4-ENV-25W	
		Lab Sample ID	JA86430-1		JA86687-2		JB3922-1		JB3820-1	
		Sampling Date	9/16/2011		9/20/2011		4/11/2012		4/10/2012	
		Matrix	Ground Water		Ground Water		Ground Water		Ground Water	
		Units	µg/L		µg/L		µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Results		Results		Results		Results	
1,1,1-Trichloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5		ND (0.14)		0.23	J	ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA		NA		NA	
1,2-Dichlorobenzene	3		ND (0.11)		ND (0.11)		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5		NA		NA		NA		NA	
1,3-Dichlorobenzene	3		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC		NA		NA		NA		NA	
2-Butanone (MEK)	50		NA		NA		NA		NA	
2-Hexanone	50		NA		NA		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA		NA		NA	
Acetone	50		NA		NA		NA		NA	
Benzene	1		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	5		NA		NA		NA		NA	
Bromodichloromethane	50		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Bromoform	50		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Carbon disulfide	60		NA		NA		NA		NA	
Carbon tetrachloride	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Chloroethane	5		NA		NA		NA		NA	
Chloroform	7		0.64	J	ND (0.15)		ND (0.15)		ND (0.15)	
Chloromethane	5		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5		NA		NA		NA		NA	
cis-1,3-Dichloropropene	0.4[(a)]		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Cyclohexane	NC		NA		NA		NA		NA	
Dibromochloromethane	50		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5		ND (0.72)		ND (0.72)		ND (0.72)		ND (0.72)	
Ethylbenzene	5		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Freon TF[(1)]	5		NA		NA		ND (0.23)		ND (0.23)	
Isopropylbenzene	5		NA		NA		NA		NA	
m&p-Xylene	5[(b)]		NA		NA		NA		NA	
Methyl acetate	NC		NA		NA		NA		NA	
Methylcyclohexane	NC		NA		NA		NA		NA	
Methylene Chloride	5		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
Methyl Tert Butyl Ether	10		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
n-Butylbenzene	5		NA		NA		NA		NA	
N-Propylbenzene	5		NA		NA		NA		NA	
o-Xylene	5[(b)]		NA		NA		NA		NA	
p-Isopropyltoluene	5		NA		NA		NA		NA	
sec-Butylbenzene	5		NA		NA		NA		NA	
Styrene	5		NA		NA		NA		NA	
tert-Butylbenzene	5		NA		NA		NA		NA	
Tetrachloroethene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Toluene	5		0.16	J	ND (0.12)		ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[(a)]		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Trichloroethene	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5		ND (0.60)		ND (0.60)		ND (0.60)		ND (0.60)	
Vinyl chloride	2		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Xylenes (total)	5		NA		0.23		ND (0.17)		ND (0.17)	
Total VOCs	NC		0.80		0.46		ND		ND	

Notes:

[(a)] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

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

NC - No Criterion

µg/L - micrograms per liter

ND (0.16) - Not detected above Method Detection Limit

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

		Sample ID	RCH-4-ENV-29W		RCH-4-ENV-33W		TB040312		TB040512	
		Lab Sample ID	JB3508-1		JB3233-2		JB3233-3		JB3508-2	
		Sampling Date	4/5/2012		4/3/2012		4/3/2012		4/5/2012	
		Matrix	Ground Water		Ground Water		Trip Blank Ground Water		Trip Blank Ground Water	
		Units	µg/L		µg/L		µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Results		Results		Results		Results	
1,1,1-Trichloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5		ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA		NA		NA	
1,2-Dichlorobenzene	3		ND (0.11)		ND (0.11)		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5		NA		NA		NA		NA	
1,3-Dichlorobenzene	3		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC		NA		NA		NA		NA	
2-Butanone (MEK)	50		NA		NA		NA		NA	
2-Hexanone	50		NA		NA		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA		NA		NA	
Acetone	50		NA		NA		NA		NA	
Benzene	1		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	5		NA		NA		NA		NA	
Bromodichloromethane	50		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Bromoform	50		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Carbon disulfide	60		NA		NA		NA		NA	
Carbon tetrachloride	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Chloroethane	5		NA		NA		NA		NA	
Chloroform	7		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Chloromethane	5		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5		NA		NA		NA		NA	
cis-1,3-Dichloropropene	0.4[a]		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Cyclohexane	NC		NA		NA		NA		NA	
Dibromochloromethane	50		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5		ND (0.72)		ND (0.72)		ND (0.72)		ND (0.72)	
Ethylbenzene	5		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Freon TF[1]	5		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
Isopropylbenzene	5		NA		NA		NA		NA	
m&p-Xylene	5[b]		NA		NA		NA		NA	
Methyl acetate	NC		NA		NA		NA		NA	
Methylcyclohexane	NC		NA		NA		NA		NA	
Methylene Chloride	5		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
Methyl Tert Butyl Ether	10		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
n-Butylbenzene	5		NA		NA		NA		NA	
N-Propylbenzene	5		NA		NA		NA		NA	
o-Xylene	5[b]		NA		NA		NA		NA	
p-Isopropyltoluene	5		NA		NA		NA		NA	
sec-Butylbenzene	5		NA		NA		NA		NA	
Styrene	5		NA		NA		NA		NA	
tert-Butylbenzene	5		NA		NA		NA		NA	
Tetrachloroethene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Toluene	5		0.33	J	ND (0.12)		ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[a]		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Trichloroethene	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5		ND (0.60)		ND (0.60)		ND (0.60)		ND (0.60)	
Vinyl chloride	2		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Xylenes (total)	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Total VOCs	NC		0.33		ND		ND		ND	

Notes:

[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

µg/L - micrograms per liter

ND (0.16) - Not detected above Method Detection Limit

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

	Sample ID	TB041012		FBGW040312	
	Lab Sample ID	JB3820-2		JB3233-1	
	Sampling Date	4/10/2012		4/3/2012	
	Matrix	Ground Water		Field Blank Ground Water	
	Units	µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Results		Results	
1,1,1-Trichloroethane	5	ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5	ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1	ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5	ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5	ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5	NA		NA	
1,2,4-Trichlorobenzene	5	NA		NA	
1,2,4-Trimethylbenzene	5	NA		NA	
1,2-Dibromo-3-Chloropropane	0.04	NA		NA	
1,2-Dibromoethane	0.0006	NA		NA	
1,2-Dichlorobenzene	3	ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6	ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1	ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5	NA		NA	
1,3-Dichlorobenzene	3	ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3	ND (0.22)		ND (0.22)	
1,4-Dioxane	NC	NA		NA	
2-Butanone (MEK)	50	NA		NA	
2-Hexanone	50	NA		NA	
4-Methyl-2-pentanone	NC	NA		NA	
Acetone	50	NA		NA	
Benzene	1	ND (0.28)		ND (0.28)	
Bromochloromethane	5	NA		NA	
Bromodichloromethane	50	ND (0.15)		ND (0.15)	
Bromoform	50	ND (0.19)		ND (0.19)	
Bromomethane	5	ND (0.28)		ND (0.28)	
Carbon disulfide	60	NA		NA	
Carbon tetrachloride	5	ND (0.17)		ND (0.17)	
Chlorobenzene	5	ND (0.19)		ND (0.19)	
Chloroethane	5	NA		NA	
Chloroform	7	ND (0.15)		ND (0.15)	
Chloromethane	5	ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5	NA		NA	
cis-1,3-Dichloropropene	0.4[(a)]	ND (0.12)		ND (0.12)	
Cyclohexane	NC	NA		NA	
Dibromochloromethane	50	ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5	ND (0.72)		ND (0.72)	
Ethylbenzene	5	ND (0.18)		ND (0.18)	
Freon TF[(1)]	5	ND (0.23)		ND (0.23)	
Isopropylbenzene	5	NA		NA	
m&p-Xylene	5[(b)]	NA		NA	
Methyl acetate	NC	NA		NA	
Methylcyclohexane	NC	NA		NA	
Methylene Chloride	5	ND (0.31)		ND (0.31)	
Methyl Tert Butyl Ether	10	ND (0.18)		ND (0.18)	
n-Butylbenzene	5	NA		NA	
N-Propylbenzene	5	NA		NA	
o-Xylene	5[(b)]	NA		NA	
p-Isopropyltoluene	5	NA		NA	
sec-Butylbenzene	5	NA		NA	
Styrene	5	NA		NA	
tert-Butylbenzene	5	NA		NA	
Tetrachloroethene	5	ND (0.19)		ND (0.19)	
Toluene	5	ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5	ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[(a)]	ND (0.18)		ND (0.18)	
Trichloroethene	5	ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5	ND (0.60)		ND (0.60)	
Vinyl chloride	2	ND (0.18)		ND (0.18)	
Xylenes (total)	5	ND (0.17)		ND (0.17)	
Total VOCs	NC	ND		ND	

Notes:

[(a)] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

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

NC - No Criterion

µg/L - micrograms per liter

ND (0.16) - Not detected above Method Detection Limit

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		RCH-4H-ENV-5W		RCH-4H-ENV-5W		FB GW 092011		TB 092011		RCH-4-ENV-29W		RCH-4-ENV-29W	
Lab Sample ID				JA86686-3		JA86686-3F		JA86686-1		JA86686-4		JB3515-1		JB3515-1F	
Sampling Date				9/20/2011		9/20/2011		9/20/2011		9/20/2011		4/5/2012		4/5/2012	
Matrix				Ground Water		Ground Water Filtered		Field Blank Water		Trip Blank Water		Ground Water		Ground Water Filtered	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
Non-polar material	mg/L	50	NC	<5.1		NA		<5.2		NA		<5.2		NA	
pH (range)	su	5-12	NC	6.64	c	NA		6.51	c	NA		7.06	c	NA	
Temperature	Degrees F	<150	NC	NA		NA		NA		NA		NA		NA	
Flash Point	Degrees F	>140	NC	**>200**		NA		**>200**		NA		>200		NA	
Cadmium**	µg/L	2,000	NC	<3.0		<3.0		<3.0		NA		<3.0		<3.0	
Chromium (VI)	µg/L	5000	NC	<0.010		NA		<0.010		NA		<0.010		NA	
Copper	µg/L	5,000	NC	<10		<10		<10		NA		71		<10	
Lead	µg/L	2,000	NC	<3.0		<3.0		<3.0		NA		62.5		<3.0	
Mercury	µg/L	50	NC	<0.20		<0.20		<0.20		NA		<0.80		<0.20	
Nickel	µg/L	3,000	NC	<10		<10		<10		NA		28.7		<10	
Zinc	µg/L	5,000	NC	<20		<20		<20		NA		108		<20	
Benzene (a)	µg/L	134	57	ND (0.28)		NA		ND (0.28)		ND (0.28)		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.17)		NA		ND (0.17)		ND (0.17)		ND (0.17)		NA	
Chloroform (h)	µg/L	NC	NC	ND (0.15)		NA		ND (0.15)		ND (0.15)		ND (0.15)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		NA		ND (0.22)		ND (0.22)		ND (0.22)		NA	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)		ND (0.18)		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)		ND (0.18)		NA	
Naphthalene (a)	µg/L	47	19	2.1		NA		NA		ND (0.32)		ND (0.33)		NA	
Phenolics	mg/L	NC	NC	<0.20		NA		<0.20		NA		<0.20		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)		ND (0.19)		NA	
Toluene (a)	µg/L	74	28	ND (0.12)		NA		ND (0.12)		ND (0.12)		0.33	J	NA	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.37)		NA		ND (0.34)		NA		ND (0.34)		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)		ND (0.16)		NA	
Xylenes, Total (a)	µg/L	74	28	ND (0.17)		NA		ND (0.17)		ND (0.17)		0.67	J	NA	
PCB's (Total)	µg/L	1	NC	ND		NA		ND		NA		ND		NA	
Total Suspended Solids	mg/L	350	NC	45		NA		<4.0		NA		**2740**		NA	
CBOD	mg/L	NC	NC	<10		NA		<2.0		NA		<10		NA	
Chloride	mg/L	NC	NC	<2.0		NA		<2.0		NA		87.3		NA	
Total Nitrogen	mg/L	NC	NC	1.5	b	NA		<0.30	b	NA		4.4	b	NA	
Total Solids	mg/L	NC	NC	1420		NA		<10		NA		3190		NA	

Notes:
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
b - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
c - Sample received out of holding time for pH analysis.
* - Recovery or RPD exceeds control limits
Bold with yellow highlight indicates exceedence of NYCDEP Sewer Use Discharge Parameters

RCH-4 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		RCH-4-ENV-29WA		RCH-4-ENV-29WA	
Lab Sample ID				JB3515-2		JB3515-2F	
Sampling Date				4/5/2012		4/5/2012	
Matrix				Ground Water		Ground Water Filtered	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Result**	
Non-polar material	mg/L	50	NC	<5.6		NA	
pH (range)	su	5-12	NC	6.79	d	NA	
Temperature	Degrees F	<150	NC	NA		NA	
Flash Point	Degrees F	>140	NC	>200		NA	
Cadmium**	µg/L	2,000	NC	<3.0		<3.0	
Chromium (VI)	µg/L	5000	NC	<0.010		NA	
Copper	µg/L	5,000	NC	76		<10	
Lead	µg/L	2,000	NC	61.5	a	<3.0	
Mercury	µg/L	50	NC	<0.80	b	<0.20	
Nickel	µg/L	3,000	NC	49		<10	
Zinc	µg/L	5,000	NC	169		<20	
Benzene (a)	µg/L	134	57	ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.17)		NA	
Chloroform (h)	µg/L	NC	NC	ND (0.15)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		NA	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA	
Naphthalene (a)	µg/L	47	19	ND (0.34)		NA	
Phenolics	mg/L	NC	NC	<0.20		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA	
Toluene (a)	µg/L	74	28	0.36	J	NA	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.37)		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.16)		NA	
Xylenes, Total (a)	µg/L	74	28	0.68	J	NA	
PCB's (Total)	µg/L	1	NC	ND		NA	
Total Suspended Solids	mg/L	350	NC	**12000**		NA	
CBOD	mg/L	NC	NC	<10		NA	
Chloride	mg/L	NC	NC	88.2		NA	
Total Nitrogen	mg/L	NC	NC	3	c	NA	
Total Solids	mg/L	NC	NC	12900		NA	

Notes:
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
b - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
c - Sample received out of holding time for pH analysis.
* - Recovery or RPD exceeds control limits
Bold with yellow highlight indicates exceedence of NYCDEP Sewer Use Discharge Param

RCH-4 TRACT
STATEN ISLAND, NEW YROK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID / Lab Sample ID / Sampling Date / Matrix		SPDES Discharge Parameters	RCH-4H-ENV-2W JA86430-1 9/16/2011 Ground Water		RCH-4H-ENV-2W JA86430-1F 9/16/2011 Ground Water (Filtered)		RCH-4H-ENV-5W JA86687-2 9/20/2011 Ground Water		RCH-4H-ENV-5W JA86687-2F 9/20/2011 Ground Water (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.24	c	NA		6.64	c	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<5.0	a	<0.50		<0.50		<0.50	
Arsenic	µg/L	NC	102	a	3.7		6.4		10.2	
Beryllium	µg/L	11	<5.0	a	<0.50		<0.50		<0.50	
Cadmium	µg/L	2.7	**<5.0**	a	<0.50		<0.50		<0.50	
Chromium	µg/L	NC	133	a	<4.0		<4.0		<4.0	
Copper	µg/L	61	**153**	a	<4.0		<4.0		<4.0	
Lead	µg/L	219	83.3	a	<0.50		0.92		<0.50	
Mercury	µg/L	0.0026	**<0.20**		**<0.20**		<0.20		<0.20	
Nickel	µg/L	NC	149	a	<4.0		<4.0		<4.0	
Selenium	µg/L	50	<10	a	<1.0		<1.0		<1.0	
Silver	µg/L	50	<20	a	<2.0		<2.0		<2.0	
Thallium	µg/L	50	<5.0	a	<0.50		<0.50		<0.50	
Zinc	µg/L	66	**473**	a	8.5		17.7		6.5	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		<0.10		NA	
Oil & Grease	mg/L	15	<5.0		NA		<5.6		NA	
Total Suspended Solids	mg/L	50	**361**		NA		39		NA	
Settleable Solids	ml/L	NC	5		NA		<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		0.23	J	NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		ND (0.39)		NA	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		ND (0.39)		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		ND (0.89)		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Chloroform (h)	µg/L	NC	0.64	J	NA		ND (0.15)	J	NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		ND (0.72)		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		ND (0.17)		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		ND (0.60)		NA	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Total Halogenated Volatiles	µg/L	NC	0.64		ND		0.23		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
Benzene (a)	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	µg/L	100	0.16	J	NA		ND (0.12)		NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	0.16		ND		ND		ND	

Notes:
a = Elevated sample detection limit due to difficult sample matrix.
c = Sample received out of holding time for pH analysis.
HF = Field Parameter with a holding time of 15 minutes.
J = Value is estimated
mg/L = milligrams per liter
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.26) = Not detected (above method detection limit)
SPDES - State Pollutant Discharge Elimination System.
su = standard unit
µg/L = micrograms/liter
* = Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
<1.0 - Less than the method detection limit
Bold and highlighted indicates concentration above SPDES Typical Daily Max Limit

RCH-4 TRACT
STATEN ISLAND, NEW YROK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID / Lab Sample ID / Sampling Date / Matrix		SPDES Discharge Parameters	RCH-4-ENV-25W JB3820-1 4/10/2012 Ground Water		RCH-4-ENV-25W JB3820-1F 4/10/2012 Ground Water (Filtered)		RCH-4-ENV-29W JB3508-1 4/5/2012 Ground Water		RCH-4-ENV-29W JB3508-1F 4/5/2012 Ground Water (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.96	d	NA		6.63	c	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<1.0		<0.50		0.78		<0.50	
Arsenic	µg/L	NC	13.5		9.7		17.9		8.9	
Beryllium	µg/L	11	<1.0		<0.50		0.79		<0.50	
Cadmium	µg/L	2.7	<1.0		<0.50		<0.50		<0.50	
Chromium	µg/L	NC	31.4	a	<4.0		20.4		<4.0	
Copper	µg/L	61	22.3	a	<4.0		54.6		<4.0	
Lead	µg/L	219	11.2		<0.50		47.5		<0.50	
Mercury	µg/L	0.0026	<0.20**		<0.20		<0.80**	a	<0.20**	
Nickel	µg/L	NC	25.6	a	<4.0		18		<4.0	
Selenium	µg/L	50	<2.0		<1.0		<1.0		<1.0	
Silver	µg/L	50	<4.0		<2.0		<2.0		<2.0	
Thallium	µg/L	50	<1.0		<0.50		<0.50		<0.50	
Zinc	µg/L	66	65.5		7		63.3		<4.0	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		<0.10		NA	
Oil & Grease	mg/L	15	<5.1		NA		<5.1		NA	
Total Suspended Solids	mg/L	50	**589**		NA		**2350**		NA	
Settleable Solids	ml/L	NC	5		NA		16		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)		NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		ND (0.39)		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		ND (0.89)		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Chloroform (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		ND (0.72)		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		ND (0.17)		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		ND (0.60)		NA	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
Benzene (a)	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	µg/L	100	ND (0.12)		NA		0.33	J	NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	ND		ND		0.3		ND	

Notes:
a = Elevated sample detection limit due to difficult sample mat
c = Sample received out of holding time for pH analysis.
HF = Field Parameter with a holding time of 15 minutes.
J = Value is estimated
mg/L = milligrams per liter
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.26) = Not detected (above method detection limit)
SPDES - State Pollutant Discharge Elimination System.
su = standard unit
µg/L = micrograms/liter
* = Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
<1.0 - Less than the method detection limit
Bold and highlighted indicates concentration above SPDES Ty

RCH-4 TRACT
STATEN ISLAND, NEW YROK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID / Lab Sample ID / Sampling Date / Matrix		SPDES Discharge Parameters	RCH-4-ENV-33W JB3233-2 4/3/2012 Ground Water		RCH-4-ENV-33W JB3233-2F 4/3/2012 Ground Water (Filtered)		RCH-4-ENV-33W JB3233-2D 4/3/2012 Water Dup/MSD		TB040312 JB3233-3 4/3/2012 Ground Water (Trip Blank)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	7.22	b	NA		7.2	b	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<0.50		<0.50		NA		NA	
Arsenic	µg/L	NC	<1.0		<1.0		NA		NA	
Beryllium	µg/L	11	<0.50		<0.50		NA		NA	
Cadmium	µg/L	2.7	<0.50		<0.50		NA		NA	
Chromium	µg/L	NC	<4.0		<4.0		NA		NA	
Copper	µg/L	61	5.8		<4.0		NA		NA	
Lead	µg/L	219	<0.50		<0.50		NA		NA	
Mercury	µg/L	0.0026	<0.20**		<0.20**		NA		NA	
Nickel	µg/L	NC	<4.0		<4.0		NA		NA	
Selenium	µg/L	50	<1.0		<1.0		NA		NA	
Silver	µg/L	50	<2.0		<2.0		NA		NA	
Thallium	µg/L	50	<0.50		<0.50		NA		NA	
Zinc	µg/L	66	8.1		10.6		NA		NA	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		NA		NA	
Oil & Grease	mg/L	15	<5.1		NA		NA		NA	
Total Suspended Solids	mg/L	50	<4.0		NA		NA		NA	
Settleable Solids	ml/L	NC	<0.10		NA		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		NA		ND (0.18)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		NA		ND (0.16)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		NA		ND (0.16)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		NA		ND (0.23)	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		NA		ND (0.14)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		NA		ND (0.30)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		NA		ND (0.11)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		NA		ND (0.39)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		NA		ND (0.18)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		NA		ND (0.20)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		NA		ND (0.22)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		NA		ND (0.89)	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		NA		ND (0.15)	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		NA		ND (0.19)	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		NA		ND (0.28)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		NA		ND (0.17)	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		NA		ND (0.19)	
Chloroform (h)	µg/L	NC	ND (0.15)		NA		NA		ND (0.15)	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		NA		ND (0.20)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		NA		ND (0.12)	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		NA		ND (0.18)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		NA		ND (0.72)	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		NA		ND (0.31)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		NA		ND (0.19)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		NA		ND (0.27)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		NA		ND (0.18)	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		NA		ND (0.17)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		NA		ND (0.60)	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		NA		ND (0.18)	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		NA		ND (0.11)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		NA		ND (0.20)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		NA		ND (0.22)	
Benzene (a)	µg/L	100	ND (0.28)		NA		NA		ND (0.28)	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		NA		ND (0.19)	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		NA		ND (0.18)	
Toluene (a)	µg/L	100	ND (0.12)		NA		NA		ND (0.12)	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		NA		ND (0.17)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND	

Notes:
a = Elevated sample detection limit due to difficult sample mat
c = Sample received out of holding time for pH analysis.
HF = Field Parameter with a holding time of 15 minutes.
J = Value is estimated
mg/L = milligrams per liter
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.26) = Not detected (above method detection limit)
SPDES - State Pollutant Discharge Elimination System.
su = standard unit
µg/L = micrograms/liter
* = Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
<1.0 - Less than the method detection limit
Bold and highlighted indicates concentration above SPDES Ty

RCH-4 TRACT
STATEN ISLAND, NEW YROK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID / Lab Sample ID / Sampling Date / Matrix		SPDES Discharge Parameters	TB040512 / JB3508-2 / 4/5/2012 / Ground Water (Trip Blank)		TB041012 / JB3820-2 / 4/10/2012 / Ground Water (Trip Blank)		FBGW040312 / JB3233-1 / 4/3/2012 / Field Blank		FBGW040312 / JB3233-1F / 4/3/2012 / Field Blank (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	NA		NA		**4.55**	b	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	NA		NA		<0.50		<0.50	
Arsenic	µg/L	NC	NA		NA		<1.0		<1.0	
Beryllium	µg/L	11	NA		NA		<0.50		<0.50	
Cadmium	µg/L	2.7	NA		NA		<0.50		<0.50	
Chromium	µg/L	NC	NA		NA		<4.0		<4.0	
Copper	µg/L	61	NA		NA		<4.0		<4.0	
Lead	µg/L	219	NA		NA		<0.50		<0.50	
Mercury	µg/L	0.0026	NA		NA		<0.20**		<0.20**	
Nickel	µg/L	NC	NA		NA		<4.0		<4.0	
Selenium	µg/L	50	NA		NA		<1.0		<1.0	
Silver	µg/L	50	NA		NA		<2.0		<2.0	
Thallium	µg/L	50	NA		NA		<0.50		<0.50	
Zinc	µg/L	66	NA		NA		<4.0		<4.0	
Nitrate+Nitrite	mg/L	NC	NA		NA		<0.10		NA	
Oil & Grease	mg/L	15	NA		NA		<5.1		NA	
Total Suspended Solids	mg/L	50	NA		NA		5		NA	
Settleable Solids	ml/L	NC	NA		NA		<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		ND (0.18)		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		ND (0.16)		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		ND (0.16)		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		ND (0.23)		ND (0.23)		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		ND (0.14)		ND (0.14)		NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		ND (0.30)		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		ND (0.11)		ND (0.11)		NA	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		ND (0.39)		ND (0.39)		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		ND (0.18)		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		ND (0.20)		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		ND (0.89)		ND (0.89)		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		ND (0.15)		ND (0.15)		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		ND (0.28)		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		ND (0.17)		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		NA	
Chloroform (h)	µg/L	NC	ND (0.15)		ND (0.15)		ND (0.15)		NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		ND (0.20)		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		ND (0.12)		ND (0.12)		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		ND (0.18)		ND (0.18)		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		ND (0.72)		ND (0.72)		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		ND (0.31)		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		ND (0.27)		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		ND (0.18)		ND (0.18)		NA	
Trichloroethene (h)	µg/L	26	ND (0.17)		ND (0.17)		ND (0.17)		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		ND (0.60)		ND (0.60)		NA	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		ND (0.18)		ND (0.18)		NA	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		ND (0.11)		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		ND (0.20)		ND (0.20)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		NA	
Benzene (a)	µg/L	100	ND (0.28)		ND (0.28)		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		ND (0.18)		ND (0.18)		NA	
Toluene (a)	µg/L	100	ND (0.12)		ND (0.12)		ND (0.12)		NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		ND (0.17)		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND	

Notes:
a = Elevated sample detection limit due to difficult sample mat
c = Sample received out of holding time for pH analysis.
HF = Field Parameter with a holding time of 15 minutes.
J = Value is estimated
mg/L = milligrams per liter
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.26) = Not detected (above method detection limit)
SPDES - State Pollutant Discharge Elimination System.
su = standard unit
µg/L = micrograms/liter
* = Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
<1.0 - Less than the method detection limit
Bold and highlighted indicates concentration above SPDES Ty

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR METALS AND CYANIDE

	Sample ID	RCH-5H-ENV-1W		RCH-5H-ENV-1W		RCH-5H-ENV-1WA		RCH-5H-ENV-1WA		RCH-5H-ENV-3W	
	Lab Sample ID	JA90265-2		JA90265-2F		JA90265-3		JA90265-3F		JA86687-1	
	Sampling Date	10/26/2011		10/26/2011		10/26/2011		10/26/2011		9/20/2011	
	Matrix	Ground Water		Ground Water (Filtered)		Ground Water (Duplicate)		Ground Water (Duplicate)(Filtered)		Ground Water	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Results		Results		Results		Results		Results	
Aluminum	NC	NA		NA		NA		NA		NA	
Antimony	3	<0.50		<0.50		<0.50		<0.50		**<5.0**	a
Arsenic	25	4.5		4.7		5.4		4.8		**75.8**	a
Barium	1,000	NA		NA		NA		NA		NA	
Beryllium	3	<0.50		<0.50		<0.50		<0.50		**27**	a
Cadmium	5	<0.50		<0.50		<0.50		<0.50		<5.0	a
Calcium	NC	NA		NA		NA		NA		NA	
Chromium (Total)	50	<4.0		<4.0		<4.0		<4.0		**510**	a
Cobalt	NC	NA		NA		NA		NA		NA	
Copper	200	<4.0		<4.0		<4.0		<4.0		**757**	a
Cyanide (Total)	200	NA		NA		NA		NA		NA	
Iron	300	NA		NA		NA		NA		NA	
Lead	25	1.4		<0.50		2		<0.50		**571**	a
Magnesium	35,000	NA		NA		NA		NA		NA	
Manganese	300	NA		NA		NA		NA		NA	
Mercury (Total)	0.7	<0.20		<0.20		<0.20		<0.20		**<1.6**	a
Nickel	100	<4.0		<4.0		<4.0		<4.0		**752**	a
Potassium	NC	NA		NA		NA		NA		NA	
Selenium	10	<1.0		<1.0		<1.0		<1.0		**17.5**	a
Silver	50	<2.0		<2.0		<2.0		<2.0		<20	a
Sodium	20,000	NA		NA		NA		NA		NA	
Thallium	0.5	<0.50		<0.50		<0.50		<0.50		**<10**	a
Vanadium	NC	NA		NA		NA		NA		NA	
Zinc	2,000	14		5.6		9.6		4.4		1860	a

Notes:

a - Elevated sample detection limit due to difficult sample matrix
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.5 - Less than the Method Detection Limit

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR METALS AND CYANIDE

	Sample ID	RCH-5H-ENV-3W		RCH-5H-ENV-6.1W		RCH-5H-ENV-6.1W		FBGW102611	
	Lab Sample ID	JA86687-1F		JA90567-1		JA90567-1F		JA90265-1	
	Sampling Date	9/20/2011		10/28/2011		10/28/2011		10/26/2011	
	Matrix	Ground Water (Filtered)		Ground Water		Ground Water (Filtered)		Ground Water (Field Blank)	
	Units	µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Results		Results		Results		Results	
Aluminum	NC	NA		NA		NA		NA	
Antimony	3	0.62		0.94		0.77		<0.50	
Arsenic	25	1		8.5		2.9		<1.0	
Barium	1,000	NA		NA		NA		NA	
Beryllium	3	<0.50		0.73		<0.50		<0.50	
Cadmium	5	<0.50		<0.50		<0.50		<0.50	
Calcium	NC	NA		NA		NA		NA	
Chromium (Total)	50	<4.0		13.8		<4.0		<4.0	
Cobalt	NC	NA		NA		NA		NA	
Copper	200	<4.0		37		<4.0		<4.0	
Cyanide (Total)	200	NA		NA		NA		NA	
Iron	300	NA		NA		NA		NA	
Lead	25	<0.50		13.2		<0.50		<0.50	
Magnesium	35,000	NA		NA		NA		NA	
Manganese	300	NA		NA		NA		NA	
Mercury (Total)	0.7	<0.20		<0.20		<0.20		<0.20	
Nickel	100	<4.0		18.2		<4.0		<4.0	
Potassium	NC	NA		NA		NA		NA	
Selenium	10	<1.0		<1.0		<1.0		<1.0	
Silver	50	<2.0		<2.0		<2.0		<2.0	
Sodium	20,000	NA		NA		NA		NA	
Thallium	0.5	<0.50		<0.50		<0.50		<0.50	
Vanadium	NC	NA		NA		NA		NA	
Zinc	2,000	<4.0		54.1		<4.0		<4.0	

Notes:

a - Elevated sample detection limit due to difficult sample matrix
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.5 - Less than the Method Detection Limit

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

	Sample ID	RCH-5H-ENV-1W	RCH-5H-ENV-1WA	RCH-5H-ENV-3W	RCH-5H-ENV-6.1W	FB GW 092011
	Lab Sample ID	JA90265-2	JA90265-3	JA86686-2	JA90567-1R	JA86686-1
	Sampling Date	10/26/2011	10/26/2011	9/20/2011	10/28/2011	9/20/2011
	Matrix	Ground Water	Ground Water (Duplicate)	Ground Water	Ground Water	Ground Water
	Units	µg/L	µg/L	µg/L	µg/L	µg/L
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)	Results	Results	Results		Results
Aroclor 1016	NC	ND (0.0094)	ND (0.0094)	ND (0.012)	ND (0.13)	ND (0.0094)
Aroclor 1221	NC	ND (0.047)	ND (0.047)	ND (0.059)	ND (0.28)	ND (0.047)
Aroclor 1232	NC	ND (0.039)	ND (0.039)	ND (0.049)	ND (0.39)	ND (0.039)
Aroclor 1242	NC	ND (0.016)	ND (0.016)	ND (0.021)	ND (0.088)	ND (0.016)
Aroclor 1248	NC	ND (0.015)	ND (0.015)	ND (0.019)	ND (0.15)	ND (0.015)
Aroclor 1254	NC	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.14)	ND (0.011)
Aroclor 1260	NC	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.21)	ND (0.012)
Aroclor 1262	NC	NA	NA	NA	ND (0.13)	NA
Aroclor 1268	NC	NA	NA	NA	ND (0.061)	NA
Total PCBs	0.09	ND	ND	NA	NA	NA

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA - Not Analyzed
ND (0.0094) - Not detected above (Method Detection Limit)

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

		Sample ID	RCH-5H-ENV-1W		RCH-5H-ENV-1WA		RCH-5H-ENV-3W		RCH-5H-ENV-6.1W	
		Lab Sample ID	JA90265-2		JA90265-3		JA86687-1		JA90567-1	
		Sampling Date	10/26/2011		10/26/2011		9/20/2011		10/28/2011	
		Matrix	Ground Water		Ground Water (Duplicate)		Ground Water		Ground Water	
		Units	µg/L		µg/L		µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Results		Results		Results		Results	
1,1,1-Trichloroethane (TCA)	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5		ND (0.14)		ND (0.14)		1.4		ND (0.14)	
1,1-Dichloroethene	5		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA		NA		NA	
1,2-Dichlorobenzene	3		ND (0.11)		ND (0.11)		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6		ND (0.39)		ND (0.39)		ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5		NA		NA		NA		NA	
1,3-Dichlorobenzene	3		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC		NA		NA		NA		NA	
2-Butanone (MEK)	50		NA		NA		NA		NA	
2-Hexanone	50		NA		NA		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA		NA		NA	
Acetone	50		NA		NA		NA		NA	
Benzene	1		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	5		NA		NA		NA		NA	
Bromodichloromethane	50		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Bromoform	50		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Carbon disulfide	60		NA		NA		NA		NA	
Carbon tetrachloride	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Chloroethane	5		NA		NA		NA		NA	
Chloroform	7		ND (0.15)		ND (0.15)		0.71	J	ND (0.15)	
Chloromethane	5		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5		NA		NA		NA		NA	
cis-1,3-Dichloropropene	0.4[(a)]		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Cyclohexane	NC		NA		NA		NA		NA	
Dibromochloromethane	50		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5		ND (0.72)		ND (0.72)		ND (0.72)		ND (0.72)	
Ethylbenzene	5		ND (0.18)		ND (0.18)		ND (0.18)		0.64	J
Freon TF[(1)]	5		NA		NA		NA		NA	
Isopropylbenzene	5		NA		NA		NA		NA	
m&p-Xylene	5[(b)]		NA		NA		NA		NA	
Methyl acetate	NC		NA		NA		NA		NA	
Methylcyclohexane	NC		NA		NA		NA		NA	
Methylene Chloride	5		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
Methyl tert-butyl ether (MTBE)	10		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
n-Butylbenzene	5		NA		NA		NA		NA	
N-Propylbenzene	5		NA		NA		NA		NA	
o-Xylene	5[(b)]		NA		NA		NA		NA	
p-Isopropyltoluene	5		NA		NA		NA		NA	
sec-Butylbenzene	5		NA		NA		NA		NA	
Styrene	5		NA		NA		NA		NA	
tert-Butylbenzene	5		NA		NA		NA		NA	
Tetrachloroethene (PCE)	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Toluene	5		0.92	J	0.35	J	0.61	J	0.38	J
trans-1,2-Dichloroethene	5		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[(a)]		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Trichloroethene (TCE)	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5		ND (0.60)		ND (0.60)		ND (0.60)		ND (0.60)	
Vinyl chloride	2		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Total VOCs	NC		0.92		0.35		2.72		1.02	

Notes:
J - Value is estimated
[(a)] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[(b)] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
[(1)] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
ND (0.16) - Not Detected Above Method Detection Limit

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS

	Sample ID	TB102811		FBGW102611		TB102611		
	Lab Sample ID	JA90567-2		JA90265-1		JA90265-4		
	Sampling Date	10/28/2011		10/26/2011		10/26/2011		
	Matrix	Ground Water (Trip Blank)		Ground Water (Field Blank)		Ground Water (Trip Blank)		
	Units	µg/L		µg/L		µg/L		
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Results		Results		Results		
1,1,1-Trichloroethane (TCA)	5	ND (0.16)		ND (0.16)		ND (0.16)		
1,1,2,2-Tetrachloroethane	5	ND (0.16)		ND (0.16)		ND (0.16)		
1,1,2-Trichloroethane	1	ND (0.23)		ND (0.23)		ND (0.23)		
1,1-Dichloroethane	5	ND (0.14)		ND (0.14)		ND (0.14)		
1,1-Dichloroethene	5	ND (0.30)		ND (0.30)		ND (0.30)		
1,2,3-Trichlorobenzene	5	NA		NA		NA		
1,2,4-Trichlorobenzene	5	NA		NA		NA		
1,2,4-Trimethylbenzene	5	NA		NA		NA		
1,2-Dibromo-3-Chloropropane	0.04	NA		NA		NA		
1,2-Dibromoethane	0.0006	NA		NA		NA		
1,2-Dichlorobenzene	3	ND (0.11)		ND (0.11)		ND (0.11)		
1,2-Dichloroethane	0.6	ND (0.39)		ND (0.39)		ND (0.39)		
1,2-Dichloropropane	1	ND (0.18)		ND (0.18)		ND (0.18)		
1,3,5-Trimethylbenzene	5	NA		NA		NA		
1,3-Dichlorobenzene	3	ND (0.20)		ND (0.20)		ND (0.20)		
1,4-Dichlorobenzene	3	ND (0.22)		ND (0.22)		ND (0.22)		
1,4-Dioxane	NC	NA		NA		NA		
2-Butanone (MEK)	50	NA		NA		NA		
2-Hexanone	50	NA		NA		NA		
4-Methyl-2-pentanone	NC	NA		NA		NA		
Acetone	50	NA		NA		NA		
Benzene	1	ND (0.28)		ND (0.28)		ND (0.28)		
Bromochloromethane	5	NA		NA		NA		
Bromodichloromethane	50	ND (0.15)		ND (0.15)		ND (0.15)		
Bromoform	50	ND (0.19)		ND (0.19)		ND (0.19)		
Bromomethane	5	ND (0.28)		ND (0.28)		ND (0.28)		
Carbon disulfide	60	NA		NA		NA		
Carbon tetrachloride	5	ND (0.17)		ND (0.17)		ND (0.17)		
Chlorobenzene	5	ND (0.19)		ND (0.19)		ND (0.19)		
Chloroethane	5	NA		NA		NA		
Chloroform	7	ND (0.15)		ND (0.15)		ND (0.15)		
Chloromethane	5	ND (0.20)		ND (0.20)		ND (0.20)		
cis-1,2-Dichloroethene	5	NA		NA		NA		
cis-1,3-Dichloropropene	0.4[a]	ND (0.12)		ND (0.12)		ND (0.12)		
Cyclohexane	NC	NA		NA		NA		
Dibromochloromethane	50	ND (0.18)		ND (0.18)		ND (0.18)		
Dichlorodifluoromethane	5	ND (0.72)		ND (0.72)		ND (0.72)		
Ethylbenzene	5	ND (0.18)		ND (0.18)		ND (0.18)		
Freon TF[1]	5	NA		NA		NA		
Isopropylbenzene	5	NA		NA		NA		
m&p-Xylene	5[b]	NA		NA		NA		
Methyl acetate	NC	NA		NA		NA		
Methylcyclohexane	NC	NA		NA		NA		
Methylene Chloride	5	ND (0.31)		ND (0.31)		ND (0.31)		
Methyl tert-butyl ether (MTBE)	10	ND (0.18)		ND (0.18)		ND (0.18)		
n-Butylbenzene	5	NA		NA		NA		
N-Propylbenzene	5	NA		NA		NA		
o-Xylene	5[b]	NA		NA		NA		
p-Isopropyltoluene	5	NA		NA		NA		
sec-Butylbenzene	5	NA		NA		NA		
Styrene	5	NA		NA		NA		
tert-Butylbenzene	5	NA		NA		NA		
Tetrachloroethene (PCE)	5	ND (0.19)		ND (0.19)		ND (0.19)		
Toluene	5	ND (0.12)		ND (0.12)		ND (0.12)		
trans-1,2-Dichloroethene	5	ND (0.27)		ND (0.27)		ND (0.27)		
trans-1,3-Dichloropropene	0.4[a]	ND (0.18)		ND (0.18)		ND (0.18)		
Trichloroethene (TCE)	5	ND (0.17)		ND (0.17)		ND (0.17)		
Trichlorofluoromethane	5	ND (0.60)		ND (0.60)		ND (0.60)		
Vinyl chloride	2	ND (0.18)		ND (0.18)		ND (0.18)		
Total VOCs	NC	ND		ND		ND		

Notes:
J - Value is estimated
[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
ND (0.16) - Not Detected Above Method Detection Limit

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

	Sample ID	RCH-5H-ENV-1W	RCH-5H-ENV-1WA	RCH-5H-ENV-3W	RCH-5H-ENV-6.1W	FB GW 092011
	Lab Sample ID	JA90265-2	JA90265-3	JA86686-2	JA90567-1R	JA86686-1
	Sampling Date	10/26/2011	10/26/2011	9/20/2011	10/28/2011	9/20/2011
	Matrix	Ground Water	Ground Water (Duplicate)	Ground Water	Ground Water	Ground Water
	Units	µg/L	µg/L	µg/L	µg/L	µg/L
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)	Results	Results	Results		Results
Aroclor 1016	NC	ND (0.0094)	ND (0.0094)	ND (0.012)	ND (0.13)	ND (0.0094)
Aroclor 1221	NC	ND (0.047)	ND (0.047)	ND (0.059)	ND (0.28)	ND (0.047)
Aroclor 1232	NC	ND (0.039)	ND (0.039)	ND (0.049)	ND (0.39)	ND (0.039)
Aroclor 1242	NC	ND (0.016)	ND (0.016)	ND (0.021)	ND (0.088)	ND (0.016)
Aroclor 1248	NC	ND (0.015)	ND (0.015)	ND (0.019)	ND (0.15)	ND (0.015)
Aroclor 1254	NC	ND (0.011)	ND (0.011)	ND (0.014)	ND (0.14)	ND (0.011)
Aroclor 1260	NC	ND (0.012)	ND (0.012)	ND (0.015)	ND (0.21)	ND (0.012)
Aroclor 1262	NC	NA	NA	NA	ND (0.13)	NA
Aroclor 1268	NC	NA	NA	NA	ND (0.061)	NA
Total PCBs	0.09	ND	ND	NA	NA	NA

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA - Not Analyzed
ND (0.0094) - Not detected above (Method Detection Limit)

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID	NYCDEP Sewer Use Discharge Parameters		RCH-5H-ENV-3W		RCH-5H-ENV-3W		FB GW 092011		TB 092011	
Lab Sample ID			JA86686-3		JA86686-3F		JA86686-1		JA86686-4	
Sampling Date			9/20/2011		9/20/2011		9/20/2011		9/20/2011	
Matrix			Ground Water		Ground Water Filtered		Field Blank Water		Trip Blank Water	
PARAMETERS	**Daily Limit**	**Monthly Limit**	**Result**		**Result**		**Result**		**Result**	
Non-polar material (HEM Petroleum Hydrocarbons)	50	NC	<5.2		NA		<5.1		NA	
pH (range)	5-12	NC	7.48	c	NA		6.51	c	NA	
Temperature	<150	NC	NA		NA		NA		NA	
Flash Point	>140	NC	**>200**		NA		**>200**		NA	
Cadmium**	2,000	NC	<30	a	<3.0		<3.0		NA	
Chromium (VI)	5000	NC	<0.010		NA		<0.010		NA	
Copper	5,000	NC	831	a	<10		<10		NA	
Lead	2,000	NC	611		<3.0		<3.0		NA	
Mercury	50	NC	<1.6	a	<0.20		<0.20		NA	
Nickel	3,000	NC	983	a	<10		<10		NA	
Zinc	5,000	NC	2400	a	20.4		<20		NA	
Benzene (a)	134	57	ND (0.28)		NA		ND (0.28)		ND (0.28)	
Carbon Tetrachloride (h)	NC	NC	ND (0.17)		NA		ND (0.17)		ND (0.17)	
Chloroform (h)	NC	NC	0.82	J	NA		ND (0.15)		ND (0.15)	
1,4-Dichlorobenzene (a)	NC	NC	ND (0.22)		NA		ND (0.22)		ND (0.22)	
Ethylbenzene (a)	NC	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
MTBE (Methyl-Tert-Butyl-Ether)	5,000	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Naphthalene (a)	47	19	ND (0.40)		NA		NA		ND (0.32)	
Phenolics	NC	NC	<0.20		NA		<0.20		NA	
Tetrachloroethene (PCE) (h)	NC	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Toluene (a)	74	28	0.68	J	NA		ND (0.12)		ND (0.12)	
1,2,4 Trichlorobenzene	NC	NC	ND (0.43)		NA		ND (0.34)		NA	
1,1,1-Trichloroethane	NC	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)	
Xylenes, Total (a)	74	28	0.47	J	NA		ND (0.17)		ND (0.17)	
PCB's (Total)	1	NC	ND		NA		ND		NA	
Total Suspended Solids	350	NC	**56200**		NA		<4.0		NA	
CBOD	NC	NC	<6.8		NA		<2.0		NA	
Chloride	NC	NC	93.2		NA		<2.0		NA	
Total Nitrogen	NC	NC	10.3	b	NA		<0.30	b	NA	
Total Solids	NC	NC	38100		NA		<10		NA	

Notes:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated sample detection limit due to difficult sample matrix.
b - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
c - Sample received out of holding time for pH analysis.
Bold with yellow highlight indicates exceedence of NYCDEP Sewer Use Discharge Parameters

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

				Sample ID	RCH-5H-ENV-1W		RCH-5H-ENV-1W		RCH-5H-ENV-1WA		RCH-5H-ENV-1WA	
				Lab Sample ID	JA90265-2		JA90265-2F		JA90265-3		JA90265-3F	
				Sampling Date	10/26/2011		10/26/2011		10/26/2011		10/26/2011	
				Matrix	Ground Water		Ground Water (Filtered)		Ground Water (Duplicate)		Ground Water (Dup) (Filtered)	
PARAMETERS	**Analytical Method**	**Analytical Method Number for NYCEP Sewer Use Discharge**	**Units**	**SPDES Discharge Parameters Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	SM 4500 H+ B	SM 4500 H+ B	su	6-9	6.45	b	NA		6.49	b	NA	
Temperature	Field	Field	Degrees C	NC	NA		NA		NA		NA	
Antimony	200.8	200.8	µg/L	63	<0.50		<0.50		<0.50		<0.50	
Arsenic	200.8	200.8	µg/L	NC	4.5		4.7		5.4		4.8	
Beryllium	200.8	200.8	µg/L	11	<0.50		<0.50		<0.50		<0.50	
Cadmium	200.8	200.8	µg/L	2.7	<0.50		<0.50		<0.50		<0.50	
Chromium	200.8	200.8	µg/L	NC	<4.0		<4.0		<4.0		<4.0	
Copper	200.8	200.8	µg/L	61	<4.0		<4.0		<4.0		<4.0	
Lead	200.8	200.8	µg/L	219	1.4		<0.50		2		<0.50	
Mercury	245.1	245.1	µg/L	0.0026	**<0.20****		**<0.20****		**<0.20****		**<0.20****	
Nickel	200.8	200.8	µg/L	NC	<4.0		<4.0		<4.0		<4.0	
Selenium	200.8	200.8	µg/L	50	<1.0		<1.0		<1.0		<1.0	
Silver	200.8	200.8	µg/L	50	<2.0		<2.0		<2.0		<2.0	
Thallium	200.8	200.8	µg/L	50	<0.50		<0.50		<0.50		<0.50	
Zinc	200.8	200.8	µg/L	66	14		5.6		9.6		4.4	
Nitrate+Nitrite	SM 4500 H+ B	SM 4500 NO3 F	mg/L	NC	0.21		NA		0.16		NA	
Oil & Grease	1664A	1664A	mg/L	15	<5.0		NA		6.1		NA	
Total Suspended Solids	SM 2540D	SM 2540D	mg/L	50	**84**		NA		**95**		NA	
Settleable Solids	SM 2540F	SM 2540F	ml/L	NC	<0.10		NA		<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	624	624	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	601/624	624	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	601/624	624	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	601/624	624	µg/L	NC	ND (0.23)		NA		ND (0.23)		NA	
1,1-Dichloroethane (h)	601/624	624	µg/L	NC	ND (0.14)		NA		ND (0.14)		NA	
1,1-Dichloroethene (h)	601/624	624	µg/L	NC	ND (0.30)		NA		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,2-Dichloroethane (h)	601/624	624	µg/L	NC	ND (0.39)		NA		ND (0.39)		NA	
1,2-Dichloropropane (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	601/624	624	µg/L	NC	ND (0.89)		NA		ND (0.89)		NA	
Bromodichloromethane (h)	601/624	624	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Bromoform (h)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Bromomethane (h)	601/624	624	µg/L	NC	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	601/624	624	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Chloroform (h)	601/624	624	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Chloromethane (h)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	601/624	624	µg/L	NC	ND (0.12)		NA		ND (0.12)		NA	
Dibromochloromethane (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Dichlorodifluoromethane (h)	601/624	624	µg/L	NC	ND (0.72)		NA		ND (0.72)		NA	
Methylene Chloride (h)	601/624	624	µg/L	NC	ND (0.31)		NA		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	601/624	624	µg/L	20	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	601/624	624	µg/L	NC	ND (0.27)		NA		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Trichloroethene (h)	601/624	624	µg/L	26	ND (0.17)		NA		ND (0.17)		NA	
Trichlorofluoromethane (h)	601/624	624	µg/L	NC	ND (0.60)		NA		ND (0.60)		NA	
Vinyl chloride (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Total Halogenated Volatiles	601/624	624	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
Benzene (a)	601/624	624	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Ethylbenzene (a)	601/624	624	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	601/624	624	µg/L	100	0.92	J	NA		0.35	J	NA	
Xylenes, Total (a)	601/624	624	µg/L	100	1.1		NA		0.93	J	NA	
Total Aromatic Volatiles	601/624	624	µg/L	NC	2.02		ND		1.28		ND	

Notes:
Bold and highlighted indicates concentration above SPDES Typical Daily Max Limit
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated detection limit due to difficult matrix.
b - Sample received out of holding time for pH analysis.
NA - Not analyzed
NC - No criterion
ND - Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
J - Value is estimated
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
<0.50 - Less than the method detection limit
* - Recovery or RPD exceeds control limits
** - MDL exceeds SPDES

RCH-5 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

				Sample ID	RCH-5H-ENV-3W		RCH-5H-ENV-3W		FBGW102611		TB102611	
				Lab Sample ID	JA86687-1		JA86687-1F		JA90265-1		JA90265-4	
				Sampling Date	9/20/2011		9/20/2011		10/26/2011		10/26/2011	
				Matrix	Ground Water		Ground Water (Filtered)		Ground Water (Field Blank)		Ground Water (Trip Blank)	
PARAMETERS	**Analytical Method**	**Analytical Method Number for NYCEP Sewer Use Discharge**	**Units**	**SPDES Discharge Parameters Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	SM 4500 H+ B	SM 4500 H+ B	su	6-9	7.48	b	NA		6.29	b	NA	
Temperature	Field	Field	Degrees C	NC	NA		NA		NA		NA	
Antimony	200.8	200.8	µg/L	63	<5.0	a	0.62		<0.50		NA	
Arsenic	200.8	200.8	µg/L	NC	75.8	a	1		<1.0		NA	
Beryllium	200.8	200.8	µg/L	11	**27**	a	<0.50		<0.50		NA	
Cadmium	200.8	200.8	µg/L	2.7	**<5.0**	a	<0.50		<0.50		NA	
Chromium	200.8	200.8	µg/L	NC	510	a	<4.0		<4.0		NA	
Copper	200.8	200.8	µg/L	61	**757**	a	<4.0		<4.0		NA	
Lead	200.8	200.8	µg/L	219	**571**	a	<0.50		<0.50		NA	
Mercury	245.1	245.1	µg/L	0.0026	<1.6	a	<0.20		**<0.20****		NA	
Nickel	200.8	200.8	µg/L	NC	752	a	<4.0		<4.0		NA	
Selenium	200.8	200.8	µg/L	50	17.5	a	<1.0		<1.0		NA	
Silver	200.8	200.8	µg/L	50	<20	a	<2.0		<2.0		NA	
Thallium	200.8	200.8	µg/L	50	<10	a	<0.50		<0.50		NA	
Zinc	200.8	200.8	µg/L	66	**1860**	a	<4.0		<4.0		NA	
Nitrate+Nitrite	SM 4500 H+ B	SM 4500 NO3 F	mg/L	NC	0.71		NA		<0.10		NA	
Oil & Grease	1664A	1664A	mg/L	15	<5.6		NA		<5.5		NA	
Total Suspended Solids	SM 2540D	SM 2540D	mg/L	50	**73500**		NA		<4.0		NA	
Settleable Solids	SM 2540F	SM 2540F	ml/L	NC	250		NA		<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	624	624	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		ND (0.18)	
1,1,1-Trichloroethane (h)	601/624	624	µg/L	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane (h)	601/624	624	µg/L	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane (h)	601/624	624	µg/L	NC	ND (0.23)		NA		ND (0.23)		ND (0.23)	
1,1-Dichloroethane (h)	601/624	624	µg/L	NC	1.4		NA		ND (0.14)		ND (0.14)	
1,1-Dichloroethene (h)	601/624	624	µg/L	NC	ND (0.30)		NA		ND (0.30)		ND (0.30)	
1,2-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.11)		NA		ND (0.11)		ND (0.11)	
1,2-Dichloroethane (h)	601/624	624	µg/L	NC	ND (0.39)		NA		ND (0.39)		ND (0.39)	
1,2-Dichloropropane (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
1,3-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (h)	601/624	624	µg/L	NC	ND (0.22)		NA		ND (0.22)		ND (0.22)	
2-Chloroethyl vinyl ether (h)	601/624	624	µg/L	NC	ND (0.89)		NA		ND (0.89)		ND (0.89)	
Bromodichloromethane (h)	601/624	624	µg/L	NC	ND (0.15)		NA		ND (0.15)		ND (0.15)	
Bromoform (h)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Bromomethane (h)	601/624	624	µg/L	NC	ND (0.28)		NA		ND (0.28)		ND (0.28)	
Carbon Tetrachloride (h)	601/624	624	µg/L	NC	ND (0.17)		NA		ND (0.17)		ND (0.17)	
Chlorobenzene (h)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Chloroform (h)	601/624	624	µg/L	NC	0.71	J	NA		ND (0.15)		ND (0.15)	
Chloromethane (h)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
cis-1,3-Dichloropropene (h)	601/624	624	µg/L	NC	ND (0.12)		NA		ND (0.12)		ND (0.12)	
Dibromochloromethane (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane (h)	601/624	624	µg/L	NC	ND (0.72)		NA		ND (0.72)		ND (0.72)	
Methylene Chloride (h)	601/624	624	µg/L	NC	ND (0.31)		NA		ND (0.31)		ND (0.31)	
Tetrachloroethene (PCE) (h)	601/624	624	µg/L	20	ND (0.19)		NA		ND (0.19)		ND (0.19)	
trans-1,2-Dichloroethene (h)	601/624	624	µg/L	NC	ND (0.27)		NA		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Trichloroethene (h)	601/624	624	µg/L	26	ND (0.17)		NA		ND (0.17)		ND (0.17)	
Trichlorofluoromethane (h)	601/624	624	µg/L	NC	ND (0.60)		NA		ND (0.60)		ND (0.60)	
Vinyl chloride (h)	601/624	624	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Total Halogenated Volatiles	601/624	624	µg/L	NC	2.11		ND		ND		ND	
1,2-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.11)		NA		ND (0.11)		ND (0.11)	
1,3-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (a)	601/624	624	µg/L	NC	ND (0.22)		NA		ND (0.22)		ND (0.22)	
Benzene (a)	601/624	624	µg/L	100	ND (0.28)		NA		ND (0.28)		ND (0.28)	
Chlorobenzene (a)	601/624	624	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Ethylbenzene (a)	601/624	624	µg/L	100	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Toluene (a)	601/624	624	µg/L	100	0.61	J	NA		ND (0.12)		ND (0.12)	
Xylenes, Total (a)	601/624	624	µg/L	100	0.45	J	NA		ND (0.17)		ND (0.17)	
Total Aromatic Volatiles	601/624	624	µg/L	NC	1.06		ND		ND		ND	

Notes:
Bold and highlighted indicates concentration above SPDES Typical Daily Max Limit
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated detection limit due to difficult matrix.
b - Sample received out of holding time for pH analysis.
NA - Not analyzed
NC - No criterion
ND - Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
J - Value is estimated
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
<0.50 - Less than the method detection limit
* - Recovery or RPD exceeds control limits
** - MDL exceeds SPDES

RCH-6 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR METALS

	Sample ID	RCH-6-ENV-2W	RCH-6-ENV-2W	RCH-6-ENV-5W	RCH-6-ENV-5W
	Lab Sample ID	JA81454-2	JA81454-2F	JA81454-1	JA81454-1F
	Sampling Date	7/20/2011	7/20/2011	7/20/2011	7/20/2011
	Matrix	Ground Water	Ground Water	Ground Water	Ground Water
	Units	µg/L	µg/L	µg/L	µg/L
METALS AND CYANIDE	Class GA Values (µg/L)	Unfiltered	Filtered	Unfiltered	Filtered
Aluminum	NC	NA	NA	NA	NA
Antimony	3	NA	NA	1.3	1.1
Arsenic	25	NA	NA	12.3	9.3
Barium	1,000	NA	NA	NA	NA
Beryllium	3	NA	NA	<0.50	<0.50
Cadmium	5	<3.0	<3.0	<0.50	<0.50
Calcium	NC	NA	NA	NA	NA
Chromium (Total)	50	NA	NA	6.9	<4.0
Cobalt	NC	NA	NA	NA	NA
Copper	200	25.8	<10	8.5	<4.0
Cyanide (Total)	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	**46.8**	<3.0	**69.5**	<0.50
Magnesium	35,000	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Mercury (Total)	0.7	<0.20	<0.20	<0.20	<0.20
Nickel	100	<10	<10	5.4	<4.0
Potassium	NC	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	<2.0	<2.0
Sodium	20,000	NA	NA	NA	NA
Thallium	0.5	NA	NA	<0.50	<0.50
Vanadium	NC	NA	NA	NA	NA
Zinc	2,000	92.3	25.5	89.2	<4.0

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
Bold with yellow highlight indicates concentration above NY Drinking Water Standard

RCH-6 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

	Sample ID	RCH-6-ENV-2W	RCH-6-ENV-5W	TRIP BLANK
	Lab Sample ID	JA81454-2	JA81454-1	JA81454-3
	Sampling Date	7/20/2011	7/20/2011	7/20/2011
	Matrix	Ground Water	Ground Water	Ground Water
	Units	µg/L	µg/L	µg/L
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Results	Results	Results
1,1,1-Trichloroethane (TCA)	5	ND (0.21)	ND (0.21)	ND (0.21)
1,1,2,2-Tetrachloroethane	5	NA	ND (0.16)	ND (0.16)
1,1,2-Trichloroethane	1	NA	ND (0.21)	ND (0.21)
1,1-Dichloroethane	5	NA	ND (0.30)	ND (0.30)
1,1-Dichloroethene	5	NA	ND (0.24)	ND (0.24)
1,2,3-Trichlorobenzene	5	NA	NA	NA
1,2,4-Trichlorobenzene	5	NA	NA	NA
1,2,4-Trimethylbenzene	5	NA	NA	NA
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA
1,2-Dibromoethane	0.0006	NA	NA	NA
1,2-Dichlorobenzene	3	NA	ND (0.22)	ND (0.22)
1,2-Dichloroethane	0.6	NA	ND (0.53)	ND (0.53)
1,2-Dichloropropane	1	NA	ND (0.12)	ND (0.12)
1,3,5-Trimethylbenzene	5	NA	NA	NA
1,3-Dichlorobenzene	3	NA	ND (0.15)	ND (0.15)
1,4-Dichlorobenzene	3	ND (0.24)	ND (0.24)	ND (0.24)
1,4-Dioxane	NC	NA	NA	NA
2-Butanone (MEK)	50	NA	NA	NA
2-Hexanone	50	NA	NA	NA
4-Methyl-2-pentanone	NC	NA	NA	NA
Acetone	50	NA	NA	NA
Benzene	1	ND (0.27)	ND (0.27)	ND (0.27)
Bromochloromethane	5	NA	NA	NA
Bromodichloromethane	50	NA	ND (0.29)	ND (0.29)
Bromoform	50	NA	ND (0.19)	ND (0.19)
Bromomethane	5	NA	ND (0.23)	ND (0.23)
Carbon disulfide	60	NA	NA	NA
Carbon tetrachloride	5	ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	5	NA	ND (0.26)	ND (0.26)
Chloroethane	5	NA	NA	NA
Chloroform	7	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane	5	NA	ND (0.16)	ND (0.16)
cis-1,2-Dichloroethene	5	NA	ND (0.53)	ND (0.53)
cis-1,3-Dichloropropene	0.4[a]	NA	ND (0.19)	ND (0.19)
Cyclohexane	NC	NA	NA	NA
Dibromochloromethane	50	NA	ND (0.23)	ND (0.23)
Dichlorodifluoromethane	5	NA	ND (0.64)	ND (0.64)
Ethylbenzene	5	ND (0.22)	ND (0.22)	ND (0.22)
Freon TF[1]	5	NA	NA	NA
Isopropylbenzene	5	NA	NA	NA
m&p-Xylene	5[b]	NA	NA	NA
Methyl acetate	NC	NA	NA	NA
Methylcyclohexane	NC	NA	NA	NA
Methylene Chloride	5	NA	ND (0.17)	ND (0.17)
Methyl tert-butyl ether (MTBE)	10	ND (0.26)	5.5	ND (0.26)
n-Butylbenzene	5	NA	NA	NA
N-Propylbenzene	5	NA	NA	NA
o-Xylene	5[b]	NA	NA	NA
p-Isopropyltoluene	5	NA	NA	NA
sec-Butylbenzene	5	NA	NA	NA
Styrene	5	NA	NA	NA
tert-Butylbenzene	5	NA	NA	NA
Tetrachloroethene (PCE)	5	ND (0.51)	ND (0.51)	ND (0.51)
Toluene	5	ND (0.24)	ND (0.24)	ND (0.24)
trans-1,2-Dichloroethene	5	NA	ND (0.35)	ND (0.35)
trans-1,3-Dichloropropene	0.4[a]	NA	ND (0.20)	ND (0.20)
Trichloroethene (TCE)	5	NA	ND (0.25)	ND (0.25)
Trichlorofluoromethane	5	NA	ND (0.20)	ND (0.20)
Vinyl chloride	2	NA	ND (0.16)	ND (0.16)
Total VOCs	NC	ND	5.50	ND

Notes:

[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene

[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.

[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.

NC - No Criterion

NA = Not Analyzed

µg/L - micrograms per liter

RCH-6 TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	RCH-6-ENV-2W		RCH-6-ENV-2W		RCH-6-ENV-5W		RCH-6-ENV-5W		TRIP BLANK	
Lab Sample ID			JA81454-2		JA81454-2F		JA81454-1		JA81454-1F		JA81454-3	
Sampling Date			7/20/2011		7/20/2011		7/20/2011		7/20/2011		7/20/2011	
Matrix			Ground Water		Ground Water		Ground Water		Ground Water Filtered		Trip Blank - Water	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.61	c	NA		6.32	b	NA		NA	
Temperature	Degrees C	NC	22.49		NA		22.81		NA		NA	
Antimony	µg/L	63	NA		NA		1.3		1.1		NA	
Arsenic	µg/L	NC	NA		NA		12.3		9.3		NA	
Beryllium	µg/L	11	NA		NA		<0.50		<0.50		NA	
Cadmium	µg/L	2.7	<3.0[a]		<3.0[a]		<0.50		<0.50		NA	
Chromium	µg/L	NC	NA		NA		6.9		<4.0		NA	
Copper	µg/L	61	25.8		<10		8.5		<4.0		NA	
Lead	µg/L	219	46.8		<3.0		69.5		<0.50		NA	
Mercury	µg/L	0.0026	<0.20[a]		<0.20[a]		**<0.20[a]**		**<0.20[a]**		NA	
Nickel	µg/L	NC	<10		<10		5.4		<4.0		NA	
Selenium	µg/L	50	NA		NA		NA		NA		NA	
Silver	µg/L	50	NA		NA		<2.0		<2.0		NA	
Thallium	µg/L	50	NA		NA		<0.50		<0.50		NA	
Zinc	µg/L	66	**92.3**		25.5		**89.2**		<4.0		NA	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		<0.10		NA		NA	
Oil & Grease	mg/L	15	NA		NA		<5.2		NA		NA	
Total Suspended Solids	mg/L	50	**79**		NA		**118**		NA		NA	
Settleable Solids	ml/L	NC	2720		NA		0.2		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.26)		NA		5.5		NA		ND (0.26)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.21)		NA		ND (0.21)		NA		ND (0.21)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	NA		NA		ND (0.16)		NA		ND (0.16)	
1,1,2-Trichloroethane (h)	µg/L	NC	NA		NA		ND (0.21)		NA		ND (0.21)	
1,1-Dichloroethane (h)	µg/L	NC	NA		NA		ND (0.30)		NA		ND (0.30)	
1,1-Dichloroethene (h)	µg/L	NC	NA		NA		ND (0.24)		NA		ND (0.24)	
1,2-Dichlorobenzene (h)	µg/L	NC	NA		NA		ND (0.22)		NA		ND (0.22)	
1,2-Dichloroethane (h)	µg/L	NC	NA		NA		ND (0.53)		NA		ND (0.53)	
1,2-Dichloropropane (h)	µg/L	NC	NA		NA		ND (0.12)		NA		ND (0.12)	
1,3-Dichlorobenzene (h)	µg/L	NC	NA		NA		ND (0.15)		NA		ND (0.15)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.24)		NA		ND (0.24)		NA		ND (0.24)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	NA		NA		ND (0.66)		NA		ND (0.66)	
Bromodichloromethane (h)	µg/L	NC	NA		NA		ND (0.29)		NA		ND (0.29)	
Bromoform (h)	µg/L	NC	NA		NA		ND (0.19)		NA		ND (0.23)	
Bromomethane (h)	µg/L	NC	NA		NA		ND (0.23)		NA		ND (0.23)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)		NA		ND (0.14)	
Chlorobenzene (h)	µg/L	NC	NA		NA		ND (0.26)		NA		ND (0.26)	
Chloroform (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA		ND (0.17)	
Chloromethane (h)	µg/L	NC	NA		NA		ND (0.16)		NA		ND (0.16)	
cis-1,3-Dichloropropene (h)	µg/L	NC	NA		NA		ND (0.19)		NA		ND (0.19)	
Dibromochloromethane (h)	µg/L	NC	NA		NA		ND (0.23)		NA		ND (0.23)	
Dichlorodifluoromethane (h)	µg/L	NC	NA		NA		ND (0.64)		NA		ND (0.64)	
Methylene Chloride (h)	µg/L	NC	NA		NA		ND (0.17)		NA		ND (0.17)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.51)		NA		ND (0.51)		NA		ND (0.51)	
trans-1,2-Dichloroethene (h)	µg/L	NC	NA		NA		ND (0.35)		NA		ND (0.35)	
trans-1,3-Dichloropropene (h)	µg/L	NC	NA		NA		ND (0.20)		NA		ND (0.20)	
Trichloroethene (h)	µg/L	26	NA		NA		ND (0.25)		NA		ND (0.25)	
Trichlorofluoromethane (h)	µg/L	NC	NA		NA		ND (0.20)		NA		ND (0.20)	
Vinyl chloride (h)	µg/L	NC	NA		NA		ND (0.16)		NA		ND (0.16)	
Total Halogenated Volatiles	µg/L	NC	NA		NA		ND		NA		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	NA		NA		ND (0.22)		NA		ND (0.22)	
1,3-Dichlorobenzene (a)	µg/L	NC	NA		NA		ND (0.15)		NA		ND (0.15)	
1,4-Dichlorobenzene (a)	µg/L	NC	NA		NA		ND (0.24)		NA		ND (0.24)	
Benzene (a)	µg/L	100	NA		NA		ND (0.27)		NA		ND (0.27)	
Chlorobenzene (a)	µg/L	NC	NA		NA		ND (0.26)		NA		ND (0.26)	
Ethylbenzene (a)	µg/L	100	ND (0.22)		NA		ND (0.22)		NA		ND (0.22)	
Toluene (a)	µg/L	100	ND (0.24)		NA		ND (0.24)		NA		ND (0.24)	
Xylenes, Total (a)	µg/L	100	ND (0.35)		NA		ND (0.35)		NA		ND (0.35)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		NA		ND	

Notes:
[a] = MDL exceeds SPDES standard.
c = Sample received out of holding time for pH analysis.
NA = Not analyzed
NC = No criterion
ND = Not detected
ND (0.26) - Not detected (above method detection limit)
HF = Field Parameter with a holding time of 15 minutes.
SPDES = State Pollutant Discharge Elimination System.
su = standard unit
mg/L = milligrams per liter
µg/L = micrograms/liter
<3.0 = Less than the method detection limit
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR METALS

		Sample ID	RCH-MM-ENV-1W		RCH-MM-ENV-1W		RCH-MM-ENV-4W		RCH-MM-ENV-4W	
		Lab Sample ID	JA93845-1		JA93845-1F		JA93506-1		JA93506-1F	
		Sampling Date	12/6/2011		12/6/2011		12/2/2011		12/2/2011	
		Matrix	Ground Water		Ground Water (Filtered)		Ground Water		Ground Water (Filtered)	
		Units	µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)		Results		Results		Results		Results	
Aluminum	NC		NA		NA		NA		NA	
Antimony	3		<0.50		<0.50		<2.5	a	<0.50	
Arsenic	25		1.2		<1.0		10		<1.0	
Barium	1,000		NA		NA		NA		NA	
Beryllium	3		<0.50		<0.50		**3.8**	a	<0.50	
Cadmium	5		<0.50		<0.50		<2.5	a	<0.50	
Calcium	NC		NA		NA		NA		NA	
Chromium (Total)	50		<4.0		<4.0		**57.8**		<4.0	
Cobalt	NC		NA		NA		NA		NA	
Copper	200		7.1		<4.0		155		19.4	
Cyanide (Total)	200		NA		NA		NA		NA	
Iron	300		NA		NA		NA		NA	
Lead	25		0.8		<0.50		**36.5**	a	<0.50	
Magnesium	35,000		NA		NA		NA		NA	
Manganese	300		NA		NA		NA		NA	
Mercury (Total)	0.7		<0.20		<0.20		<0.80	a	<0.20	
Nickel	100		<4.0		<4.0		83.6		<4.0	
Potassium	NC		NA		NA		NA		NA	
Selenium	10		<1.0		<1.0		<5.0		1.7	
Silver	50		<2.0		<2.0		<10	a	<2.0	
Sodium	20,000		NA		NA		NA		NA	
Thallium	0.5		<0.50		<0.50		<2.5	a	<0.50	
Vanadium	NC		NA		NA		NA		NA	
Zinc	2,000		14		13.8		176		5.3	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.50 - Less than the Method Detection Limit
a = Elevated sample detection limit due to difficult sample matrix.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR METALS

		Sample ID	RCH-MM-ENV-10W		RCH-MM-ENV-10W		RCH-MM-ENV-16W		RCH-MM-ENV-16W	
		Lab Sample ID	JA93237-1		JA93237-1F		JA92552-1		JA92552-1F	
		Sampling Date	11/30/2011		11/30/2011		11/18/2011		11/18/2011	
		Matrix	Ground Water		Ground Water (Filtered)		Ground Water		Ground Water (Filtered)	
		Units	µg/L		µg/L		µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)		Results		Results		Results		Results	
Aluminum	NC		NA		NA		NA		NA	
Antimony	3		<0.50		<0.50		<2.0	a	<1.0	
Arsenic	25		2.2		1.1		<4.0	a	<2.0	
Barium	1,000		NA		NA		NA		NA	
Beryllium	3		<0.50		<0.50		<2.0	a	<1.0	
Cadmium	5		<0.50		<0.50		<2.0	a	<1.0	
Calcium	NC		NA		NA		NA		NA	
Chromium (Total)	50		<4.0		<4.0		24.8	a	<8.0	
Cobalt	NC		NA		NA		NA		NA	
Copper	200		6		20		102	a	<8.0	
Cyanide (Total)	200		NA		NA		NA		NA	
Iron	300		NA		NA		NA		NA	
Lead	25		2.1		<0.50		13.9		<1.0	
Magnesium	35,000		NA		NA		NA		NA	
Manganese	300		NA		NA		NA		NA	
Mercury (Total)	0.7		<0.20		<0.20		<0.20		<0.20	
Nickel	100		4.6		<4.0		<16	a	<8.0	
Potassium	NC		NA		NA		NA		NA	
Selenium	10		<1.0		<1.0		<4.0	a	<2.0	
Silver	50		<2.0		<2.0		<8.0	a	<4.0	
Sodium	20,000		NA		NA		NA		NA	
Thallium	0.5		<0.50		<0.50		<2.0	a	<1.0	
Vanadium	NC		NA		NA		NA		NA	
Zinc	2,000		12.8		4.1		42.3	a	<8.0	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.50 - Less than the Method Detection Lim
a = Elevated sample detection limit due to d

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR METALS

	Sample ID	RCH-MM-ENV-16WA		RCH-MM-ENV-16WA	
	Lab Sample ID	JA92552-2		JA92552-2F	
	Sampling Date	11/18/2011		11/18/2011	
	Matrix	Ground Water Duplicate		Ground Water Duplicate (Filtered)	
	Units	µg/L		µg/L	
METALS AND CYANIDE	Class GA Values (µg/L)	Results		Results	
Aluminum	NC	NA		NA	
Antimony	3	<2.0	a	<1.0	
Arsenic	25	<4.0	a	<2.0	
Barium	1,000	NA		NA	
Beryllium	3	<2.0	a	<1.0	
Cadmium	5	<2.0	a	<1.0	
Calcium	NC	NA		NA	
Chromium (Total)	50	18.2	a	<8.0	
Cobalt	NC	NA		NA	
Copper	200	59	a	<8.0	
Cyanide (Total)	200	NA		NA	
Iron	300	NA		NA	
Lead	25	5.5		<1.0	
Magnesium	35,000	NA		NA	
Manganese	300	NA		NA	
Mercury (Total)	0.7	<0.20		<0.20	
Nickel	100	<16	a	<8.0	
Potassium	NC	NA		NA	
Selenium	10	<4.0	a	<2.0	
Silver	50	<8.0	a	<4.0	
Sodium	20,000	NA		NA	
Thallium	0.5	<2.0	a	<1.0	
Vanadium	NC	NA		NA	
Zinc	2,000	29.7	a	<8.0	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
<0.50 - Less than the Method Detection Lim
a = Elevated sample detection limit due to d

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS (PCBs)

	Sample ID	RCH-MM-ENV-1W		RCH-MM-ENV-4W		RCH-MM-ENV-10W		RCH-MM-ENV-16W		RCH-MM-ENV-16WA	
	Lab Sample ID	JA93845-1		JA93506-1		JA93237-1		JA92552-1		JA92552-2	
	Sampling Date	12/6/2011		12/2/2011		11/30/2011		11/18/2011		11/18/2011	
	Matrix	Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L	
POLYCHLORINATED BIPHENYLS (PCBs)	Class GA Values (µg/L)	Results		Results		Results		Results		Results	
Aroclor 1016	NC	ND (0.0099)		ND (0.010)		ND (0.0096)		ND (0.0094)		ND (0.0094)	
Aroclor 1221	NC	ND (0.049)		ND (0.052)		ND (0.048)		ND (0.047)		ND (0.047)	
Aroclor 1232	NC	ND (0.041)		ND (0.043)		ND (0.040)		ND (0.039)		ND (0.039)	
Aroclor 1242	NC	ND (0.017)		ND (0.018)		ND (0.017)		ND (0.016)		ND (0.016)	
Aroclor 1248	NC	ND (0.016)		ND (0.017)		ND (0.016)		ND (0.015)		ND (0.015)	
Aroclor 1254	NC	ND (0.011)		ND (0.012)		ND (0.011)		ND (0.011)		ND (0.011)	
Aroclor 1260	NC	ND (0.012)		ND (0.013)		ND (0.012)		ND (0.012)		ND (0.012)	
Aroclor 1262	NC	NA		NA		NA		NA		NA	
Aroclor 1268	NC	NA		NA		NA		NA		NA	
Total PCBs	0.09	ND		ND		NA		ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
NA = Not Analyzed
ND (0.0099) - Not detected above (Method Detection Limit)

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

	Sample ID	RCH-MM-ENV-1W		RCH-MM-ENV-4W		RCH-MM-ENV-10W		RCH-MM-ENV-16W	
	Lab Sample ID	JA93845-1		JA93506-1		JA93237-1		JA92552-1	
	Sampling Date	12/6/2011		12/2/2011		11/30/2011		11/18/2011	
	Matrix	Ground Water		Ground Water		Ground Water		Ground Water	
	Units	µg/L		µg/L		µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)	Results		Results		Results		Results	
1,1,1-Trichloroethane (TCA)	5	ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5	ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1	ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5	ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5	ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5	NA		NA		NA		NA	
1,2,4-Trichlorobenzene	5	NA		NA		NA		NA	
1,2,4-Trimethylbenzene	5	NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04	NA		NA		NA		NA	
1,2-Dibromoethane	0.0006	NA		NA		NA		NA	
1,2-Dichlorobenzene	3	ND (0.11)		ND (0.11)		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6	ND (0.39)		ND (0.39)		ND (0.39)		**6.8**	
1,2-Dichloropropane	1	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5	NA		NA		NA		NA	
1,3-Dichlorobenzene	3	ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC	NA		NA		NA		NA	
2-Butanone (MEK)	50	NA		NA		NA		NA	
2-Hexanone	50	NA		NA		NA		NA	
4-Methyl-2-pentanone	NC	NA		NA		NA		NA	
Acetone	50	NA		NA		NA		NA	
Benzene	1	ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	5	NA		NA		NA		NA	
Bromodichloromethane	50	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Bromoform	50	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane	5	ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Carbon disulfide	60	NA		NA		NA		NA	
Carbon tetrachloride	5	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene	5	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Chloroethane	5	NA		NA		NA		NA	
Chloroform	7	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Chloromethane	5	ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5	NA		NA		NA		NA	
cis-1,3-Dichloropropene	0.4[a]	ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Cyclohexane	NC	NA		NA		NA		NA	
Dibromochloromethane	50	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5	ND (0.72)		ND (0.72)		ND (0.72)		ND (0.72)	
Ethylbenzene	5	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Freon TF[1]	5	NA		NA		NA		NA	
Isopropylbenzene	5	NA		NA		NA		NA	
m&p-Xylene	5[b]	NA		NA		NA		NA	
Methyl acetate	NC	NA		NA		NA		NA	
Methylcyclohexane	NC	NA		NA		NA		NA	
Methylene Chloride	5	ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
Methyl tert-butyl ether (MTBE)	10	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
n-Butylbenzene	5	NA		NA		NA		NA	
N-Propylbenzene	5	NA		NA		NA		NA	
o-Xylene	5[b]	NA		NA		NA		NA	
p-Isopropyltoluene	5	NA		NA		NA		NA	
sec-Butylbenzene	5	NA		NA		NA		NA	
Styrene	5	NA		NA		NA		NA	
tert-Butylbenzene	5	NA		NA		NA		NA	
Tetrachloroethene (PCE)	5	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Toluene	5	ND (0.12)		0.2	J	ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5	ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[a]	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Trichloroethene (TCE)	5	ND (0.17)		ND (0.17)		ND (0.17)		4	
Trichlorofluoromethane	5	ND (0.60)		ND (0.60)		ND (0.60)		ND (0.60)	
Vinyl chloride	2	ND (0.18)		ND (0.18)		ND (0.18)		1.2	
Xylenes (total)	5[b]	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Total VOCs	NC	ND		0.20		ND		12.00	

Notes:
µg/L - micrograms per liter
NC - No Criterion
[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
NC - No Criterion
[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA = Not Analyzed
ND (0.16) - Not Detected Above Method Detection Limit

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

		Sample ID	RCH-MM-ENV-16WA		TB111811		TB113011		TB120211	
		Lab Sample ID	JA92552-2		JA92552-3		JA93237-2		JA93506-2	
		Sampling Date	11/18/2011		11/18/2011		11/30/2011		12/2/2011	
		Matrix	Ground Water Duplicate		Ground Water (Trip Blank)		Ground Water		Ground Water (Trip Blank)	
		Units	µg/L		µg/L		µg/L		µg/L	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Values (µg/L)		Results		Results		Results		Results	
1,1,1-Trichloroethane (TCA)	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane	5		ND (0.16)		ND (0.16)		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane	1		ND (0.23)		ND (0.23)		ND (0.23)		ND (0.23)	
1,1-Dichloroethane	5		ND (0.14)		ND (0.14)		ND (0.14)		ND (0.14)	
1,1-Dichloroethene	5		ND (0.30)		ND (0.30)		ND (0.30)		ND (0.30)	
1,2,3-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	5		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	5		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane	0.04		NA		NA		NA		NA	
1,2-Dibromoethane	0.0006		NA		NA		NA		NA	
1,2-Dichlorobenzene	3		ND (0.11)		ND (0.11)		ND (0.11)		ND (0.11)	
1,2-Dichloroethane	0.6		**6.9**		ND (0.39)		ND (0.39)		ND (0.39)	
1,2-Dichloropropane	1		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,3,5-Trimethylbenzene	5		NA		NA		NA		NA	
1,3-Dichlorobenzene	3		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene	3		ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
1,4-Dioxane	NC		NA		NA		NA		NA	
2-Butanone (MEK)	50		NA		NA		NA		NA	
2-Hexanone	50		NA		NA		NA		NA	
4-Methyl-2-pentanone	NC		NA		NA		NA		NA	
Acetone	50		NA		NA		NA		NA	
Benzene	1		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Bromochloromethane	5		NA		NA		NA		NA	
Bromodichloromethane	50		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Bromoform	50		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Bromomethane	5		ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Carbon disulfide	60		NA		NA		NA		NA	
Carbon tetrachloride	5		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Chloroethane	5		NA		NA		NA		NA	
Chloroform	7		ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Chloromethane	5		ND (0.20)		ND (0.20)		ND (0.20)		ND (0.20)	
cis-1,2-Dichloroethene	5		NA		NA		NA		NA	
cis-1,3-Dichloropropene	0.4[a]		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Cyclohexane	NC		NA		NA		NA		NA	
Dibromochloromethane	50		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane	5		ND (0.72)		ND (0.72)		ND (0.72)		ND (0.72)	
Ethylbenzene	5		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Freon TF[1]	5		NA		NA		NA		NA	
Isopropylbenzene	5		NA		NA		NA		NA	
m&p-Xylene	5[b]		NA		NA		NA		NA	
Methyl acetate	NC		NA		NA		NA		NA	
Methylcyclohexane	NC		NA		NA		NA		NA	
Methylene Chloride	5		ND (0.31)		ND (0.31)		ND (0.31)		ND (0.31)	
Methyl tert-butyl ether (MTBE)	10		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
n-Butylbenzene	5		NA		NA		NA		NA	
N-Propylbenzene	5		NA		NA		NA		NA	
o-Xylene	5[b]		NA		NA		NA		NA	
p-Isopropyltoluene	5		NA		NA		NA		NA	
sec-Butylbenzene	5		NA		NA		NA		NA	
Styrene	5		NA		NA		NA		NA	
tert-Butylbenzene	5		NA		NA		NA		NA	
Tetrachloroethene (PCE)	5		ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
Toluene	5		ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
trans-1,2-Dichloroethene	5		ND (0.27)		ND (0.27)		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene	0.4[a]		ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Trichloroethene (TCE)	5		3.8		ND (0.17)		ND (0.17)		ND (0.17)	
Trichlorofluoromethane	5		ND (0.60)		ND (0.60)		ND (0.60)		ND (0.60)	
Vinyl chloride	2		1.2		ND (0.18)		ND (0.18)		ND (0.18)	
Xylenes (total)	5[b]		ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Total VOCs	NC		11.90		ND		ND		ND	

Notes:
µg/L - micrograms per liter
NC - No Criterion
[a] 0.4 µg/L applies to the sum of cis- and trans-1,3-dichloropropene
[b] There is no Standard or Guidance Value for total xylenes. The Standard for o-xylene, m-xylene, and p-xylene is 5 µg/L.
NC - No Criterion
[1] - Also known as 1,1,2-trichloro-1,2,2-trifluoroethane and 1,1,2-trichlorotrifluoroethane.
NA = Not Analyzed
ND (0.16) - Not Detected Above Method Detection Limit

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		RCH-MM-ENV-1W		RCH-MM-ENV-1W		RCH-MM-ENV-1WA		RCH-MM-ENV-1WA	
Lab Sample ID				JA93850-1		JA93850-1F		JA93850-2		JA93850-2F	
Sampling Date				12/6/2011		12/6/2011		12/6/2011		12/6/2011	
Matrix				Ground Water		Ground Water Filtered		Ground Water		Ground Water Filtered	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Result**		**Result**		**Result**	
Non-polar material (HEM Petroleum Hydrocarbons)	mg/L	50	NC	<5.0		NA		<5.4		NA	
pH (range)	su	5-12	NC	6.39	b	NA		6.43	b	NA	
Temperature	Degrees F	<150	NC	NA		NA		NA		NA	
Flash Point	Degrees F	>140	NC	>200		NA		>200		NA	
Cadmium**	µg/L	2,000	NC	<3.0		<3.0		<3.0		<3.0	
Chromium (VI)	µg/L	5000	NC	<0.010		NA		<0.010		NA	
Copper	µg/L	5,000	NC	<10		<10		<10		<10	
Lead	µg/L	2,000	NC	<3.0		<3.0		<3.0		<3.0	
Mercury	µg/L	50	NC	<0.20		<0.20		<0.20		<0.20	
Nickel	µg/L	3,000	NC	<10		<10		<10		<10	
Zinc	µg/L	5,000	NC	<20		<20		<20		<20	
Benzene (a)	µg/L	134	57	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.17)		NA		ND (0.17)		NA	
Chloroform (h)	µg/L	NC	NC	ND (0.15)		NA		ND (0.15)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		NA		ND (0.22)		NA	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA		ND (0.18)		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA		ND (0.18)		NA	
Naphthalene (a)	µg/L	47	19	ND (0.33)		NA		ND (0.34)		NA	
Phenolics	mg/L	NC	NC	<0.20		NA		<0.20		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA		ND (0.19)		NA	
Toluene (a)	µg/L	74	28	ND (0.12)		NA		ND (0.12)		NA	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.35)		NA		ND (0.36)		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.16)		NA		ND (0.16)		NA	
Xylenes, Total (a)	µg/L	74	28	ND (0.17)		NA		ND (0.17)		NA	
PCB's (Total)	µg/L	1	NC	ND		NA		ND		NA	
Total Suspended Solids	mg/L	350	NC	18		NA		29		NA	
CBOD	mg/L	NC	NC	<5.0		NA		<5.0		NA	
Chloride	mg/L	NC	NC	6.1		NA		6		NA	
Total Nitrogen	mg/L	NC	NC	0.6	a	NA		0.42	a	NA	
Total Solids	mg/L	NC	NC	38100		NA		38100		NA	

Notes:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		RCH-MM-ENV-13W		RCH-MM-ENV-13W		RCH-MM-ENV-13W		FBGW112911	
Lab Sample ID				JA93110-1		JA93110-1D		JA93110-1F		JA93110-2	
Sampling Date				11/29/2011		11/29/2011		11/29/2011		11/29/2011	
Matrix				Ground Water		Ground Water Duplicate		Groundwater Filtered		Field Blank Water	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Duplicate**		**Filtered**		**Result**	
Non-polar material (HEM Petroleum Hydrocarbons)	mg/L	50	NC	<5.1		NA		NA		<5.1	
pH (range)	su	5-12	NC	6.23	b	6.23		NA		6.03	
Temperature	Degrees F	<150	NC	NA		NA		NA		NA	
Flash Point	Degrees F	>140	NC	>200		NA		NA		>200	
Cadmium**	µg/L	2,000	NC	<15	a	NA		<3.0		<3.0	
Chromium (VI)	µg/L	5000	NC	<0.010		NA		NA		<0.010	
Copper	µg/L	5,000	NC	59.5	a	NA		<10		<10	
Lead	µg/L	2,000	NC	<15	a	NA		<3.0		<3.0	
Mercury	µg/L	50	NC	<0.20		NA		<0.20		<0.20	
Nickel	µg/L	3,000	NC	<50	a	NA		<10		<10	
Zinc	µg/L	5,000	NC	<100	a	NA		<20		<20	
Benzene (a)	µg/L	134	57	ND (0.28)		NA		NA		ND (0.28)	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.17)		NA		NA		ND (0.17)	
Chloroform (h)	µg/L	NC	NC	ND (0.15)		NA		NA		ND (0.15)	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		NA		NA		ND (0.22)	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		NA		NA		ND (0.18)	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		NA		NA		ND (0.18)	
Naphthalene (a)	µg/L	47	19	ND (0.32)		NA		NA		ND (0.32)	
Phenolics	mg/L	NC	NC	<0.20		NA		NA		<0.20	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		NA		NA		ND (0.19)	
Toluene (a)	µg/L	74	28	ND (0.12)		NA		NA		ND (0.12)	
1,2,4 Trichlorobenzene	µg/L	NC	NC	ND (0.34)		NA		NA		ND (0.34)	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.16)		NA		NA		ND (0.16)	
Xylenes, Total (a)	µg/L	74	28	ND (0.17)		NA		NA		ND (0.17)	
PCB's (Total)	µg/L	1	NC	NA		NA		NA		NA	
Total Suspended Solids	mg/L	350	NC	326		NA		NA		<4.0	
CBOD	mg/L	NC	NC	<5.0		NA		NA		<2.0	
Chloride	mg/L	NC	NC	4.7		NA		NA		<2.0	
Total Nitrogen	mg/L	NC	NC	1.7	a	NA		NA		<0.30	a
Total Solids	mg/L	NC	NC	598		NA		NA		<10	

Notes:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUNDWATER SAMPLES FOR NYCDEP SEWER USE DISCHARGE PARAMETERS

Sample ID		NYCDEP Sewer Use Discharge Parameters		TB112911		TB120611	
Lab Sample ID				JA93110-3		JA93850-3	
Sampling Date				11/29/2011		12/6/2011	
Matrix				Trip Blank Water		Trip Blank Water	
PARAMETERS	**Units**	**Daily Limit**	**Monthly Limit**	**Result**		**Result**	
Non-polar material (HEM Petroleum Hydrocarbons)	mg/L	50	NC	NA		NA	
pH (range)	su	5-12	NC	NA		NA	
Temperature	Degrees F	<150	NC	NA		NA	
Flash Point	Degrees F	>140	NC	NA		NA	
Cadmium**	µg/L	2,000	NC	NA		NA	
Chromium (VI)	µg/L	5000	NC	NA		NA	
Copper	µg/L	5,000	NC	NA		NA	
Lead	µg/L	2,000	NC	NA		NA	
Mercury	µg/L	50	NC	NA		NA	
Nickel	µg/L	3,000	NC	NA		NA	
Zinc	µg/L	5,000	NC	NA		NA	
Benzene (a)	µg/L	134	57	ND (0.28)		ND (0.28)	
Carbon Tetrachloride (h)	µg/L	NC	NC	ND (0.17)		ND (0.17)	
Chloroform (h)	µg/L	NC	NC	ND (0.15)		ND (0.15)	
1,4-Dichlorobenzene (a)	µg/L	NC	NC	ND (0.22)		ND (0.22)	
Ethylbenzene (a)	µg/L	NC	NC	ND (0.18)		ND (0.18)	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	5,000	NC	ND (0.18)		ND (0.18)	
Naphthalene (a)	µg/L	47	19	ND (0.32)		NA	
Phenolics	mg/L	NC	NC	NA		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	NC	ND (0.19)		ND (0.19)	
Toluene (a)	µg/L	74	28	ND (0.12)		ND (0.12)	
1,2,4 Trichlorobenzene	µg/L	NC	NC	NA		NA	
1,1,1-Trichloroethane	µg/L	NC	NC	ND (0.16)		ND (0.16)	
Xylenes, Total (a)	µg/L	74	28	ND (0.17)		ND (0.17)	
PCB's (Total)	µg/L	1	NC	NA		NA	
Total Suspended Solids	mg/L	350	NC	NA		NA	
CBOD	mg/L	NC	NC	NA		NA	
Chloride	mg/L	NC	NC	NA		NA	
Total Nitrogen	mg/L	NC	NC	NA		NA	
Total Solids	mg/L	NC	NC	NA		NA	

Notes:
mg/L - milligrams per liter
NA - Not analyzed
NC - No criterion
ND - Not detected
su - standard unit
µg/L - micrograms/liter
* - Recovery or RPD exceeds control limits
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	RCH-MM-ENV-1W		RCH-MM-ENV-1W		RCH-MM-ENV-4W		RCH-MM-ENV-4W	
Lab Sample ID			JA93845-1		JA93845-1F		JA93506-1		JA93506-1F	
Sampling Date			12/6/2011		12/6/2011		12/2/2011		12/2/2011	
Matrix			Ground Water		Ground Water (Filtered)		Ground Water		Ground Water (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	6.37	b	NA		7.25	b	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<0.50		<0.50		<2.5	a	<0.50	
Arsenic	µg/L	NC	1.2		<1.0		10		<1.0	
Beryllium	µg/L	11	<0.50		<0.50		3.8	a	<0.50	
Cadmium	µg/L	2.7	<0.50		<0.50		<2.5	a	<0.50	
Chromium	µg/L	NC	<4.0		<4.0		57.8		<4.0	
Copper	µg/L	61	7.1		<4.0		**155**		19.4	
Lead	µg/L	219	0.8		<0.50		36.5	a	<0.50	
Mercury	µg/L	0.0026	<0.20**		<0.20		<0.80 **	a	<0.20**	
Nickel	µg/L	NC	<4.0		<4.0		83.6		<4.0	
Selenium	µg/L	50	<1.0		<1.0		<5.0		1.7	
Silver	µg/L	50	<2.0		<2.0		<10	a	<2.0	
Thallium	µg/L	50	<0.50		<0.50		<2.5	a	<0.50	
Zinc	µg/L	66	14		13.8		**176**		5.3	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		2.2		NA	
Oil & Grease	mg/L	15	<5.1		NA		<5.1		NA	
Total Suspended Solids	mg/L	50	7		NA		**6610**		NA	
Settleable Solids	ml/L	NC	<0.10		NA		0.5		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)		NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		ND (0.39)		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		ND (0.89)		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Chloroform (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		ND (0.72)		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		ND (0.17)		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		ND (0.60)		NA	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
Benzene (a)	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	µg/L	100	ND (0.12)		NA		0.2	J	NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	ND		ND		0.2		ND	

Notes:
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
<0.50 - Less than the method detection limit
* - Recovery or RPD exceeds control limits
** - MDL exceeds SPDES
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated sample detection limit due to difficult sample matrix.
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	RCH-MM-ENV-10W		RCH-MM-ENV-10W		RCH-MM-ENV-13W		RCH-MM-ENV-13W	
Lab Sample ID			JA93237-1		JA93237-1F		JA93110-1		JA93110-1F	
Sampling Date			11/30/2011		11/30/2011		11/29/2011		11/29/2011	
Matrix			Ground Water		Ground Water (Filtered)		Ground Water		Ground Water (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	5.98	b	NA		6.23	b	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<0.50		<0.50		NA		NA	
Arsenic	µg/L	NC	2.2		1.1		NA		NA	
Beryllium	µg/L	11	<0.50		<0.50		NA		NA	
Cadmium	µg/L	2.7	<0.50		<0.50		<15**	a	<3.0**	
Chromium	µg/L	NC	<4.0		<4.0		NA	a	NA	
Copper	µg/L	61	6		20		59.5	a	<10	
Lead	µg/L	219	2.1		<0.50		<15	a	<3.0	
Mercury	µg/L	0.0026	<0.20**		<0.20**		<0.20**		<0.20**	
Nickel	µg/L	NC	4.6		<4.0		<50	a	<10	
Selenium	µg/L	50	<1.0		<1.0		NA		NA	
Silver	µg/L	50	<2.0		<2.0		NA		NA	
Thallium	µg/L	50	<0.50		<0.50		NA		NA	
Zinc	µg/L	66	12.8		4.1		<100**	a	<20	
Nitrate+Nitrite	mg/L	NC	<0.10		NA		1.4		NA	
Oil & Grease	mg/L	15	<5.1		NA		NA		NA	
Total Suspended Solids	mg/L	50	29		NA		**326**		NA	
Settleable Solids	ml/L	NC	2		NA		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		NA		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		NA		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		NA		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		NA		NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		NA		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		NA		NA	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		NA		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		NA		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		NA		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		NA		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		NA		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		NA		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		NA		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		NA		NA	
Chloroform (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		NA		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		NA		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		NA		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		NA		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		NA		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		NA		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		NA		NA	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		NA		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		NA		NA	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		NA		NA	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		NA		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		NA		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
Benzene (a)	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		NA		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	µg/L	100	ND (0.12)		NA		ND (0.12)		NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND	

Notes:
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
<0.50 - Less than the method detection limit
* - Recovery or RPD exceeds control limits
** - MDL exceeds SPDES
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated sample detection limit due to difficult sample matrix.
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	RCH-MM-ENV-16W		RCH-MM-ENV-16W		RCH-MM-ENV-16WA		RCH-MM-ENV-16WA	
Lab Sample ID			JA92552-1		JA92552-1F		JA92552-2		JA92552-2F	
Sampling Date			11/18/2011		11/18/2011		11/18/2011		11/18/2011	
Matrix			Ground Water		Ground Water (Filtered)		Ground Water Duplicate		Ground Water Duplicate (Filtered)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	7.11	b	NA		7.35	b	NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	<2.0	a	<1.0		<2.0	a	<1.0	
Arsenic	µg/L	NC	<4.0	a	<2.0		<4.0	a	<2.0	
Beryllium	µg/L	11	<2.0	a	<1.0		<2.0	a	<1.0	
Cadmium	µg/L	2.7	<2.0	a	<1.0		<2.0	a	<1.0	
Chromium	µg/L	NC	24.8	a	<8.0		18.2	a	<8.0	
Copper	µg/L	61	102	a	<8.0		59	a	<8.0	
Lead	µg/L	219	13.9		<1.0		5.5		<1.0	
Mercury	µg/L	0.0026	<0.20**		<0.20**		<0.20**		<0.20**	
Nickel	µg/L	NC	<16	a	<8.0		<16	a	<8.0	
Selenium	µg/L	50	<4.0	a	<2.0		<4.0	a	<2.0	
Silver	µg/L	50	<8.0	a	<4.0		<8.0	a	<4.0	
Thallium	µg/L	50	<2.0	a	<1.0		<2.0	a	<1.0	
Zinc	µg/L	66	42.3	a	<8.0		29.7	a	<8.0	
Nitrate+Nitrite	mg/L	NC	0.26		NA		0.28		NA	
Oil & Grease	mg/L	15	<5.1		NA		<5.1		NA	
Total Suspended Solids	mg/L	50	**705**		NA		**320**		NA	
Settleable Solids	ml/L	NC	0.4		NA		<0.10		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		NA		ND (0.18)		NA	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		NA	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)		NA	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)		NA	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		ND (0.30)		NA	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,2-Dichloroethane (h)	µg/L	NC	6.8		NA		6.9		NA	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		NA		ND (0.22)		NA	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		ND (0.89)		NA	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)		NA	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		NA		ND (0.17)		NA	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Chloroform (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		NA	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		NA	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)		NA	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		ND (0.72)		NA	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		ND (0.31)		NA	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)		NA	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		NA	
Trichloroethene (h)	µg/L	26	4		NA		3.8		NA	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		ND (0.60)		NA	
Vinyl chloride (h)	µg/L	NC	1.2		NA		1.2		NA	
Total Halogenated Volatiles	µg/L	NC	12.00		ND		11.90		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		ND (0.11)		NA	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		ND (0.18)		NA	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		NA		ND (0.20)		NA	
Benzene (a)	µg/L	100	ND (0.28)		NA		ND (0.28)		NA	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)		NA	
Ethylbenzene (a)	µg/L	100	ND (0.18)		NA		ND (0.18)		NA	
Toluene (a)	µg/L	100	ND (0.12)		NA		ND (0.12)		NA	
Xylenes, Total (a)	µg/L	100	ND (0.17)		NA		ND (0.17)		NA	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND	

Notes:
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
SPDES - State Pollutant Discharge Elimination System.
su - standard unit
mg/L - milligrams per liter
µg/L - micrograms/liter
<0.50 - Less than the method detection limit
* - Recovery or RPD exceeds control limits
** - MDL exceeds SPDES
(a) - Aromatic Volatiles
(h) - Halogenated Volatiles
a - Elevated sample detection limit due to difficult sample matrix.
b - Sample received out of holding time for pH analysis.

RCH-MM TRACT
STATEN ISLAND, NEW YORK
SPECTRA ENERGY NJ-NY EXPANSION PROJECT
SUMMARY OF RESULTS OF ANALYSIS OF GROUND WATER SAMPLES FOR SPDES DISCHARGE PARAMETERS

Sample ID		SPDES Discharge Parameters	TB111811		TB112911		TB113011		TB120211	
Lab Sample ID			JA92552-3		JA93110-3		JA93237-2		JA93506-2	
Sampling Date			11/18/2011		11/29/2011		11/30/2011		12/2/2011	
Matrix			Ground Water (Trip Blank)		Ground Water (Trip Blank)		Ground Water (Trip Blank)		Ground Water (Trip Blank)	
PARAMETERS	**Units**	**Typical Daily Max Limit**	**Result**		**Result**		**Result**		**Result**	
pH (range) (HF)	su	6-9	NA		NA		NA		NA	
Temperature	Degrees C	NC	NA		NA		NA		NA	
Antimony	µg/L	63	NA		NA		NA		NA	
Arsenic	µg/L	NC	NA		NA		NA		NA	
Beryllium	µg/L	11	NA		NA		NA		NA	
Cadmium	µg/L	2.7	NA		NA		NA		NA	
Chromium	µg/L	NC	NA		NA		NA		NA	
Copper	µg/L	61	NA		NA		NA		NA	
Lead	µg/L	219	NA		NA		NA		NA	
Mercury	µg/L	0.0026	NA		NA		NA		NA	
Nickel	µg/L	NC	NA		NA		NA		NA	
Selenium	µg/L	50	NA		NA		NA		NA	
Silver	µg/L	50	NA		NA		NA		NA	
Thallium	µg/L	50	NA		NA		NA		NA	
Zinc	µg/L	66	NA		NA		NA		NA	
Nitrate+Nitrite	mg/L	NC	NA		NA		NA		NA	
Oil & Grease	mg/L	15	NA		NA		NA		NA	
Total Suspended Solids	mg/L	50	NA		NA		NA		NA	
Settleable Solids	ml/L	NC	NA		NA		NA		NA	
MTBE (Methyl-Tert-Butyl-Ether)	µg/L	Monitor	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
1,1,1-Trichloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)	
1,1,2,2-Tetrachloroethane (h)	µg/L	NC	ND (0.16)		NA		ND (0.16)		ND (0.16)	
1,1,2-Trichloroethane (h)	µg/L	NC	ND (0.23)		NA		ND (0.23)		ND (0.23)	
1,1-Dichloroethane (h)	µg/L	NC	ND (0.14)		NA		ND (0.14)		ND (0.14)	
1,1-Dichloroethene (h)	µg/L	NC	ND (0.30)		NA		ND (0.30)		ND (0.30)	
1,2-Dichlorobenzene (h)	µg/L	NC	ND (0.11)		NA		ND (0.11)		ND (0.11)	
1,2-Dichloroethane (h)	µg/L	NC	ND (0.39)		NA		ND (0.39)		ND (0.39)	
1,2-Dichloropropane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
1,3-Dichlorobenzene (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (h)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
2-Chloroethyl vinyl ether (h)	µg/L	NC	ND (0.89)		NA		ND (0.89)		ND (0.89)	
Bromodichloromethane (h)	µg/L	NC	ND (0.15)		NA		ND (0.15)		ND (0.15)	
Bromoform (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Bromomethane (h)	µg/L	NC	ND (0.28)		NA		ND (0.28)		ND (0.28)	
Carbon Tetrachloride (h)	µg/L	NC	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Chlorobenzene (h)	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Chloroform (h)	µg/L	NC	ND (0.15)		ND (0.15)		ND (0.15)		ND (0.15)	
Chloromethane (h)	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
cis-1,3-Dichloropropene (h)	µg/L	NC	ND (0.12)		NA		ND (0.12)		ND (0.12)	
Dibromochloromethane (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Dichlorodifluoromethane (h)	µg/L	NC	ND (0.72)		NA		ND (0.72)		ND (0.72)	
Methylene Chloride (h)	µg/L	NC	ND (0.31)		NA		ND (0.31)		ND (0.31)	
Tetrachloroethene (PCE) (h)	µg/L	NC	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.19)	
trans-1,2-Dichloroethene (h)	µg/L	NC	ND (0.27)		NA		ND (0.27)		ND (0.27)	
trans-1,3-Dichloropropene (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Trichloroethene (h)	µg/L	26	ND (0.17)		NA		ND (0.17)		ND (0.17)	
Trichlorofluoromethane (h)	µg/L	NC	ND (0.60)		NA		ND (0.60)		ND (0.60)	
Vinyl chloride (h)	µg/L	NC	ND (0.18)		NA		ND (0.18)		ND (0.18)	
Total Halogenated Volatiles	µg/L	NC	ND		ND		ND		ND	
1,2-Dichlorobenzene (a)	µg/L	NC	ND (0.11)		NA		ND (0.11)		ND (0.11)	
1,3-Dichlorobenzene (a)	µg/L	NC	ND (0.20)		NA		ND (0.20)		ND (0.20)	
1,4-Dichlorobenzene (a)	µg/L	NC	ND (0.22)		ND (0.22)		ND (0.22)		ND (0.22)	
Benzene (a)	µg/L	100	ND (0.28)		ND (0.28)		ND (0.28)		ND (0.28)	
Chlorobenzene (a)	µg/L	NC	ND (0.19)		NA		ND (0.19)		ND (0.19)	
Ethylbenzene (a)	µg/L	100	ND (0.18)		ND (0.18)		ND (0.18)		ND (0.18)	
Toluene (a)	µg/L	100	ND (0.12)		ND (0.12)		ND (0.12)		ND (0.12)	
Xylenes, Total (a)	µg/L	100	ND (0.17)		ND (0.17)		ND (0.17)		ND (0.17)	
Total Aromatic Volatiles	µg/L	NC	ND		ND		ND		ND	

Notes:
NA - Not analyzed
NC - No criterion
ND = Not detected
ND (0.18) - Not detected (above method detection limit)
HF - Field Parameter with a holding time of 15 minutes.
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