Table 5-3
Summary of Surface Soil Anayltical Results
Former Metropolitan MGP, Brooklyn, New York

Sample Location Sample Date Sample Interval (feet)	CAS Number	NYSDEC PART 375-6 Unrestricted	NYSDEC Part 375-6 Commercial	CP-51	SS-01 9/14/2010 0-2"	SS-02 9/14/2010 0-2"	SS-03 9/16/2010 0-2"
BTEX (mg/Kg)							
Total BTEX	***CALC-BTEX***	***NL***	***NL***	***NL***	***ND***	***ND***	***ND***
Volatile Organic Compounds (VOCs)(mg/Kg)							
1,1-Dichloroethene	75-35-4	0.33	500	NL	< 0.0065 U	**0.0016 J**	< 0.0053 U
Total VOCs	*CALC-VOC*	*NL*	*NL*	*NL*	*ND*	***0.0016***	*ND*
Polynuclear Aromatic Hydrocarbons (PAHs) (mg/Kg)							
Acenaphthene	83-32-9	20	500	NL	< 0.21 U	**0.042 J**	**0.039 J**
Acenaphthylene	208-96-8	100	500	NL	**0.081 J**	**0.083 J**	**0.082 J**
Anthracene	120-12-7	100	500	NL	**0.073 J**	**0.14 J**	**0.1 J**
Benzo(a)anthracene	56-55-3	1	5.6	NL	**0.55**	**0.63**	**0.38**
Benzo(a)pyrene	50-32-8	1	1	NL	**0.62**	**0.66**	**0.41**
Benzo(b)fluoranthene	205-99-2	1	5.6	NL	**0.9**	**1.1**	**0.58**
Benzo(ghi)perylene	191-24-2	100	500	NL	**0.52**	**0.63**	**0.32**
Benzo(k)fluoranthene	207-08-9	0.8	56	NL	**0.4**	**0.46**	**0.3**
Chrysene	218-01-9	1	56	NL	**0.57**	**0.79**	**0.47**
Dibenz(a,h)anthracene	53-70-3	0.33	0.56	NL	**0.13 J**	**0.16 J**	**0.091 J**
Fluoranthene	206-44-0	100	500	NL	**0.65**	**1.2**	**0.77**
Fluorene	86-73-7	30	500	NL	< 0.21 U	**0.038 J**	**0.038 J**
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	NL	**0.42**	**0.52**	**0.27**
Naphthalene	91-20-3	12	500	NL	< 0.21 U	< 0.23 U	**0.032 J**
Phenanthrene	85-01-8	100	500	NL	**0.26**	**0.54**	**0.38**
Pyrene	129-00-0	100	500	NL	**1**	**1.2**	**0.69**
Total PAHs	*CALC-PAH*	*NL*	*NL*	*500*	***6.174***	***8.193***	***4.952***
Other Semivolatile Organic Compounds (SVOCs) (mg/Kg)							
Acetophenone	98-86-2	NL	500	NL	< 0.21 U	**0.048 J**	< 0.18 U
Benzaldehyde	100-52-7	NL	NL	NL	**0.054 J**	**0.096 J**	**0.043 J**
bis(2-Ethylhexyl) phthalate	117-81-7	NL	NL	NL	**26**	**1.1**	**0.54**
Butyl benzyl phthalate	85-68-7	NL	NL	NL	**0.36**	**0.49**	**0.35**
Caprolactam	105-60-2	NL	NL	NL	**0.028 J**	**0.099 J**	**0.035 J**
Carbazole	86-74-8	NL	NL	NL	**0.036 J**	**0.089 J**	**0.053 J**
Di-n-butyl phthalate	84-74-2	NL	NL	NL	**0.086 J**	**0.25**	**0.092 J**
Total Other SVOCs	*CALC-SVOC*	*NL*	*NL*	*NL*	***32.738***	***10.365***	***6.065***
Inorganic Compounds (mg/Kg)							
Aluminum	7429-90-5	NL	NL	NL	**3320**	NS	NS
Antimony	7440-36-0	NL	NL	NL	**2.7**	NS	NS
Arsenic	7440-38-2	13	16	NL	**3.6**	**5.1**	**4.1**
Barium	7440-39-3	350	400	NL	**128**	**180**	**126**
Beryllium	7440-41-7	7.2	590	NL	**0.11 J**	NS	NS
Cadmium	7440-43-9	2.5	9.3	NL	**3.7**	**5.9**	**3.7**
Calcium	7440-70-2	NL	NL	NL	**10700**	NS	NS
Chromium	7440-47-3	30	1500	NL	**51.4**	**65.9**	**29.1**
Cobalt	7440-48-4	NL	NL	NL	**5.5**	NS	NS
Copper	7440-50-8	50	270	NL	**119**	NS	NS
Iron	7439-89-6	NL	NL	NL	**14300**	NS	NS
Lead	7439-92-1	63	1000	NL	**300**	**445**	**218**
Magnesium	7439-95-4	NL	NL	NL	**2910**	NS	NS
Manganese	7439-96-5	1600	10000	NL	**186**	NS	NS
Mercury	7439-97-6	0.18	2.8	NL	**0.5**	**0.66**	**0.32**
Nickel	7440-02-0	30	310	NL	**54**	NS	NS
Potassium	7440-09-7	NL	NL	NL	**514**	NS	NS
Silver	7440-22-4	2	1500	NL	**1.0 J**	**2**	**0.89 J**
Sodium	7440-23-5	NL	NL	NL	**202**	NS	NS
Vanadium	7440-62-2	NL	NL	NL	**14.4**	NS	NS
Zinc	7440-66-6	109	10000	NL	**693**	NS	NS
Total Cyanide	57-12-5	27	27	NL	**0.312 J**	**0.319 J**	**0.226 J**
Pesticides (mg/Kg)							
DDT,4,4-	50-29-3	0.0033	47	NL	**0.014 NJ**	NS	NS
Endrin aldehyde	7421-93-4	NL	NL	NL	**0.045 J**	NS	NS
Endrin ketone	53494-70-5	NL	NL	NL	**0.016 NJ**	NS	NS
PCBs (mg/Kg)							
Aroclor 1254	11097-69-1	NL	NL	NL	**0.62 J**	NS	NS
Aroclor 1260	11096-82-5	NL	NL	NL	**0.51 J**	NS	NS
PCB (Total) (ppm)	*CALC-PCBs*	*0.1*	*1*	*NL*	***1.13***	*NS*	*NS*
Herbicides (mg/Kg)							
Herbicides	93-72-1	3.8	500	NL	ND	NS	NS
Percent Solids/Moisture							
Moisture, percent	MOIST	NL	NL	NL	**23**	**30**	**12**
Percent Solids	SOLIDS	NL	NL	NL	**77**	**70**	**88**

Notes:

mg/Kg - milligrams per kilogram

NA = Not Analyzed

ND = Not Detected

NL = Not Listed

J = The associated numerical value is an estimated quantity.

R = The associated data is rejected.

Quantitation Limit (PQL).

UJ = The analyte was not detected at or above the PQL. However, the reported PQL is approximate and may be inaccurate or imprecise.

Bold indicates the analyte detected at a concentration greater than the MDL.

Yellow highlight indicates result is above the NYSDEC Part 375-6.8(b) Unrestricted Use Soil Cleanup Objective

Yellow highlight indicates result is above the NYSDEC Part 375-6.8(b) Commercial Use Soil Cleanup Objective Commercial value.

Green highlight indicates result is above the NYSDEC CP-51 Alternate Criteria of 500 mg/Kg for Total PAHs.