TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD107	GC-SD107	GC-SD107	GC-SD107	GC-SD124	GC-SD124	GC-SD124	GC-SD124	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD126	GC-SD126	GC-SD126	GC-SD126
Sample Number:		GC-SD107-00.0-02.0	GC-SD107-02.0-04.0	GC-SD107-04.0-06.0	GC-SD107-06.0-08.0	GC-SD124-00.0-02.0	GC-SD124-02.0-04.0	GC-SD124-04.0-06.0	GC-SD124-06.0-07.5	GC-SD125-00.0-02.0	GC-SD125-02.0-04.0	GC-SD125-04.0-06.0	GC-SD125-06.0-08.0	GC-SD125-08.0-10.0	D-03092010-01	GC-SD126-00.0-02.0	GC-SD126-02.0-04.0	D-03042010-01	GC-SD126-04.0-06.0
Sample Depth:		0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-7.5	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	2-4	4-6
Sample Date:		3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	6,500 UR	6,800 UR	9,200 UR	7,800 UR	60,000 UR	69,000 UR	19,000 UR	19,000 UR	7,100 UR	9,300 UR	9,800 UR	10,000 UR	35,000 UR	18,000 UR	10,000 R	12,000 R	13,000 UR	8,100 R
2,3,4,6-tetrachlorophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,4,5-trichlorophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,4,6-trichlorophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,4-dichlorophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,4-dimethylphenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,4-dinitrophenol	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
2,4-dinitrotoluene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2,6-dinitrotoluene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2-chloronaphthalene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2-chlorophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2-methylnaphthalene	ug/kg	**7,100**	**3,100 J**	**13,000**	**6,100 J**	**48,000 J**	**1,500,000 J**	**2,100,000 J**	**1,700,000 J**	**4,500 J**	**15,000**	**13,000**	**13,000**	**66,000**	**66,000**	10,000 U	**22,000**	**26,000**	**48,000**
2-methylphenol (o-cresol)	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
2-nitroaniline	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
2-nitrophenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
3,3'-dichlorobenzidine	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
3-nitroaniline	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
4,6-dinitro-2-methylphenol	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
4-bromophenyl phenyl ether	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
4-chloro-3-methylphenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
4-chloroaniline	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
4-chlorophenyl phenyl ether	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
4-methylphenol (p-cresol)	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
4-nitroaniline	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
4-nitrophenol	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
Acenaphthene	ug/kg	**8,500**	**3,500 J**	**13,000**	**7,000 J**	**160,000**	**1,000,000**	**1,200,000 J**	**970,000 J**	**4,400 J**	**11,000**	**11,000**	**8,600 J**	**57,000**	**53,000**	10,000 U	**30,000**	**33,000**	**55,000**
Acenaphthylene	ug/kg	**2,300 J**	6,800 U	**2,200 J**	7,800 U	**18,000 J**	**120,000**	**140,000**	**73,000**	7,100 U	**1,700 J**	**1,900 J**	10,000 U	**8,400 J**	**4,000 J**	**3,000 J**	**4,700 J**	**5,200 J**	**4,900 J**
Acetophenone	ug/kg	6,500 U	**1,100 J**	**1,800 J**	**1,500 J**	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Anthracene	ug/kg	**8,500**	**2,200 J**	**14,000**	**6,000 J**	**110,000**	**580,000**	**620,000 J**	**670,000 J**	**2,700 J**	**9,400**	**11,000**	**11,000**	**94,000**	**42,000**	**2,500 J**	**22,000**	**24,000**	**30,000**
Atrazine	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Benzaldehyde	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Benzo(a)anthracene	ug/kg	**7,700**	**1,500 J**	**14,000**	**11,000**	**76,000**	**300,000**	**270,000**	**220,000**	**2,800 J**	**7,700 J**	**10,000**	**13,000**	**140,000**	**51,000**	**9,100 J**	**18,000**	**19,000**	**21,000 J**
Benzo(a)pyrene	ug/kg	**5,800 J**	6,800 U	**12,000**	**9,100**	**58,000 J**	**220,000**	**210,000**	**160,000**	**2,600 J**	**5,700 J**	**8,000 J**	**11,000**	**120,000**	**35,000**	**8,100 J**	**15,000**	**15,000**	**17,000**
Benzo(b)fluoranthene	ug/kg	**3,500 J**	6,800 U	**9,700**	**8,700**	**32,000 J**	**94,000**	**110,000**	**100,000**	**2,500 J**	**4,200 J**	**5,700 J**	**11,000**	**120,000**	**24,000**	**6,300 J**	**8,800 J**	**8,900 J**	**12,000**
Benzo(g,h,i)perylene	ug/kg	**2,400 J**	6,800 U	**6,500 J**	**5,200 J**	**21,000 J**	**73,000 J**	**60,000**	**47,000**	**1,500 J**	**2,800 J**	**3,800 J**	**5,600 J**	**68,000**	**19,000**	**3,700 J**	**6,500 J**	**6,700 J**	**7,400 J**
Benzo(k)fluoranthene	ug/kg	**3,800 J**	6,800 U	**11,000**	**8,900**	**44,000 J**	**150,000**	**120,000**	**90,000**	**2,200 J**	**4,300 J**	**7,100 J**	**9,400 J**	**95,000**	**27,000**	**6,000 J**	**11,000 J**	**11,000 J**	**11,000**
Benzyl butyl phthalate	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD107	GC-SD107	GC-SD107	GC-SD107	GC-SD124	GC-SD124	GC-SD124	GC-SD124	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD126	GC-SD126	GC-SD126	GC-SD126
Sample Number:		GC-SD107-00.0-02.0	GC-SD107-02.0-04.0	GC-SD107-04.0-06.0	GC-SD107-06.0-08.0	GC-SD124-00.0-02.0	GC-SD124-02.0-04.0	GC-SD124-04.0-06.0	GC-SD124-06.0-07.5	GC-SD125-00.0-02.0	GC-SD125-02.0-04.0	GC-SD125-04.0-06.0	GC-SD125-06.0-08.0	GC-SD125-08.0-10.0	D-03092010-01	GC-SD126-00.0-02.0	GC-SD126-02.0-04.0	D-03042010-01	GC-SD126-04.0-06.0
Sample Depth:		0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-7.5	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	2-4	4-6
Sample Date:		3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	6,500 U	6,800 U	9,200 U	**1,300 J**	**28,000 J**	**200,000**	**190,000**	**120,000**	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	**2,400 J**	**3,100 J**	8,100 U
Bis(2-chloroethoxy) methane	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Bis(2-chloroethyl) ether	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Bis(2-chloroisopropyl) ether	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Bis(2-ethylhexyl) phthalate	ug/kg	17,000 U	**10,000**	**52,000**	7,800 U	60,000 U	69,000 U	30,000 U	19,000 U	18,000 U	44,000 U	**270,000 J**	10,000 U	35,000 U	18,000 U	**7,700 J**	**46,000**	**42,000**	**16,000**
Caprolactam	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Carbazole	ug/kg	6,500 U	6,800 U	**2,200 J**	**2,900 J**	60,000 U	**20,000 J**	**21,000**	**13,000 J**	7,100 U	9,300 U	9,800 U	**2,500 J**	**41,000**	**7,500 J**	10,000 U	12,000 U	13,000 U	8,100 U
Chrysene	ug/kg	**7,600**	**1,600 J**	**16,000**	**11,000**	**77,000**	**280,000**	**250,000**	**210,000**	**3,200 J**	**8,300 J**	**11,000**	**15,000**	**130,000**	**57,000**	**10,000 J**	**19,000**	**20,000**	**21,000 J**
Dibenz(a,h)anthracene	ug/kg	6,500 U	6,800 U	**2,000 J**	**1,500 J**	60,000 U	**22,000 J**	**22,000**	**19,000 J**	7,100 U	9,300 U	9,800 U	10,000 U	**20,000 J**	**6,600 J**	10,000 U	**1,900 J**	13,000 U	**2,200 J**
Dibenzofuran	ug/kg	6,500 U	6,800 U	**3,000 J**	**2,800 J**	**12,000 J**	**140,000**	**59,000**	**46,000**	7,100 U	9,300 U	**1,600 J**	**3,100 J**	**26,000 J**	**9,700 J**	10,000 U	**2,200 J**	**2,100 J**	**2,900 J**
Diethyl phthalate	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Dimethyl phthalate	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Di-n-butyl phthalate	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Di-n-octylphthalate	ug/kg	**1,200 J**	**1,400 J**	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	**19,000**	**6,500 J**	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	**1,700 J**
Fluoranthene	ug/kg	**15,000**	**4,400 J**	**40,000**	**31,000**	**150,000**	**620,000**	**690,000 J**	**630,000 J**	**7,300**	**19,000**	**23,000**	**37,000**	**360,000**	**110,000**	**14,000**	**41,000**	**41,000**	**42,000 J**
Fluorene	ug/kg	**3,600 J**	**1,300 J**	**9,800**	**5,000 J**	**86,000**	**580,000**	**590,000 J**	**540,000 J**	**2,400 J**	**7,000 J**	**6,900 J**	**6,800 J**	**53,000**	**32,000**	10,000 U	**15,000**	**17,000**	**23,000**
Hexachlorobenzene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Hexachlorobutadiene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Hexachlorocyclopentadiene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Hexachloroethane	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**2,300 J**	6,800 U	**7,700 J**	**6,600 J**	**26,000 J**	**84,000**	**68,000**	**56,000**	**1,700 J**	**2,700 J**	**3,900 J**	**6,500 J**	**83,000**	**22,000**	**4,000 J**	**6,900 J**	**7,100 J**	**8,200**
Isophorone	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Naphthalene	ug/kg	**7,700**	**3,700 J**	**12,000**	**11,000**	**88,000**	**3,400,000 J**	**4,500,000 J**	**2,400,000 J**	**5,400 J**	**10,000**	**3,000 J**	**7,600 J**	**51,000**	**29,000**	10,000 U	**26,000**	**31,000**	**71,000**
Nitrobenzene	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
N-nitrosodi-n-propylamine	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
N-nitrosodiphenylamine	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Pentachlorophenol	ug/kg	13,000 U	14,000 U	18,000 U	16,000 U	120,000 U	140,000 U	38,000 U	37,000 U	14,000 U	19,000 U	20,000 U	21,000 U	70,000 U	36,000 U	20,000 U	23,000 U	25,000 U	16,000 U
Phenanthrene	ug/kg	**21,000**	**6,100 J**	**48,000**	**26,000**	**370,000**	**2,000,000 J**	**2,100,000 J**	**1,900,000 J**	**11,000**	**35,000**	**36,000**	**46,000**	**380,000**	**170,000**	**5,500 J**	**73,000**	**76,000**	**89,000**
Phenol	ug/kg	6,500 U	6,800 U	9,200 U	7,800 U	60,000 U	69,000 U	19,000 U	19,000 U	7,100 U	9,300 U	9,800 U	10,000 U	35,000 U	18,000 U	10,000 U	12,000 U	13,000 U	8,100 U
Pyrene	ug/kg	**19,000**	**4,700 J**	**38,000**	**22,000**	**190,000**	**810,000**	**920,000 J**	**810,000 J**	**7,600**	**21,000**	**26,000**	**34,000**	**280,000**	**130,000**	**19,000**	**52,000**	**54,000**	**58,000 J**
Total PAHs	ug/kg	**125,800**	**32,100**	**268,900**	**176,100**	**1,554,000**	**11,833,000**	**13,970,000**	**10,595,000**	**61,800**	**164,800**	**181,300**	**235,500**	**2,125,400**	**877,600**	**91,200**	**372,800**	**394,900**	**520,700**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD126	GC-SD152	GC-SD152	GC-SD152	GC-SD152	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD109	GC-SD109	GC-SD153	GC-SD153	GC-SD145	GC-SD145	GC-SD146	GC-SD146
Sample Number:		GC-SD126-06.0-06.6	GC-SD152-00.0-02.0	GC-SD152-02.0-04.0	GC-SD152-04.0-06.0	GC-SD152-06.0-07.3	GC-SD108-00.0-02.0	GC-SD108-02.0-04.0	GC-SD108-04.0-06.0	D-03052010-01	GC-SD108-06.0-08.0	GC-SD109-00.0-02.0	GC-SD109-02.0-04.0	GC-SD153-00.0-02.0	GC-SD153-02.0-03.2	GC-SD145-00.0-02.0	GC-SD145-02.0-03.5	GC-SD146-00.0-02.0	GC-SD146-02.0-04.0
Sample Depth:		6-6.6	0-2	2-4	4-6	6-7.3	0-2	2-4	4-6	4-6	6-8	0-2	2-4	0-2	2-3.2	0-2	2-3.5	0-2	2-4
Sample Date:		3/4/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/4/2010	3/4/2010	4/15/2010	4/15/2010	4/9/2010	4/9/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	8,300 R	13,000 U	9,900 U	29,000 U	320,000 U	13,000 UR	9,600 UR	31,000 UR	11,000 UR	8,500 UR	17,000 R	13,000 R	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,3,4,6-tetrachlorophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,4,5-trichlorophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,4,6-trichlorophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,4-dichlorophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,4-dimethylphenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,4-dinitrophenol	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
2,4-dinitrotoluene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2,6-dinitrotoluene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2-chloronaphthalene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2-chlorophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2-methylnaphthalene	ug/kg	**13,000**	**50,000**	**19,000**	**100,000**	**2,300,000**	**7,300 J**	**42,000**	**170,000**	**68,000**	**14,000**	**6,000 J**	**3,400 J**	**1,800 J**	**35,000**	**2,200 J**	**44,000**	**26 J**	**2,400 J**
2-methylphenol (o-cresol)	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
2-nitroaniline	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
2-nitrophenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
3,3'-dichlorobenzidine	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
3-nitroaniline	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
4,6-dinitro-2-methylphenol	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
4-bromophenyl phenyl ether	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
4-chloro-3-methylphenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
4-chloroaniline	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
4-chlorophenyl phenyl ether	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
4-methylphenol (p-cresol)	ug/kg	8,300 U	13,000 U	9,900 U	**1,200 J**	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	**1,800 J**	**47 J**	13,000 U
4-nitroaniline	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
4-nitrophenol	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
Acenaphthene	ug/kg	**16,000**	**43,000**	**19,000**	**91,000**	**1,300,000**	**19,000**	**71,000**	**140,000**	**80,000**	**27,000**	**7,900 J**	**13,000 J**	**11,000**	**37,000**	**7,600 J**	**330,000**	**180 J**	**14,000**
Acenaphthylene	ug/kg	**2,600 J**	**7,100 J**	**2,200 J**	**12,000 J**	**41,000 J**	**3,300 J**	**9,700**	**17,000 J**	**9,900 J**	**5,400 J**	**3,400 J**	**2,900 J**	**990 J**	**4,200 J**	**3,200 J**	**14,000 J**	**190 J**	**3,500 J**
Acetophenone	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	**2,500 J**	**2,100 J**	31,000 U	11,000 U	**1,500 J**	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Anthracene	ug/kg	**12,000**	**29,000**	**9,900 J**	**95,000**	**570,000**	**16,000**	**53,000**	**81,000**	**47,000 J**	**29,000**	**7,900 J**	**10,000 J**	**5,400**	**19,000**	**6,200 J**	**260,000**	**220 J**	**12,000 J**
Atrazine	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Benzaldehyde	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Benzo(a)anthracene	ug/kg	**10,000**	**21,000**	**11,000**	**71,000**	**290,000 J**	**11,000 J**	**37,000**	**57,000**	**36,000**	**24,000**	**10,000 J**	**9,900 J**	**4,700 J**	**16,000**	**12,000**	**81,000 J**	**630**	**14,000**
Benzo(a)pyrene	ug/kg	**8,400**	**18,000**	9,900 U	**52,000**	320,000 U	**8,900 J**	**30,000**	**47,000**	**28,000**	**18,000**	**8,200 J**	**7,700 J**	5,100 U	**12,000**	**11,000**	**45,000**	**690**	**15,000**
Benzo(b)fluoranthene	ug/kg	**5,700 J**	**14,000**	9,900 U	**48,000**	320,000 U	**3,900 J**	**17,000**	**25,000 J**	**17,000**	**11,000**	**4,500 J**	**5,100 J**	5,100 U	12,000 U	**4,500 J**	**22,000 J**	450 U	13,000 U
Benzo(g,h,i)perylene	ug/kg	**3,600 J**	**10,000 J**	**5,000 J**	**27,000 J**	**110,000 J**	**3,800 J**	**12,000 J**	**6,100 J**	**13,000 J**	**8,200 J**	**3,600 J**	**3,600 J**	**2,400 J**	**7,500 J**	**2,900 J**	**10,000 J**	**190 J**	**6,700 J**
Benzo(k)fluoranthene	ug/kg	**6,500 J**	13,000 U	9,900 U	29,000 U	320,000 U	**6,000 J**	**19,000**	**36,000**	**21,000**	**14,000**	**6,300 J**	**5,100 J**	5,100 U	12,000 U	**5,600 J**	**29,000 J**	450 U	13,000 U
Benzyl butyl phthalate	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD126	GC-SD152	GC-SD152	GC-SD152	GC-SD152	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD109	GC-SD109	GC-SD153	GC-SD153	GC-SD145	GC-SD145	GC-SD146	GC-SD146
Sample Number:		GC-SD126-06.0-06.6	GC-SD152-00.0-02.0	GC-SD152-02.0-04.0	GC-SD152-04.0-06.0	GC-SD152-06.0-07.3	GC-SD108-00.0-02.0	GC-SD108-02.0-04.0	GC-SD108-04.0-06.0	D-03052010-01	GC-SD108-06.0-08.0	GC-SD109-00.0-02.0	GC-SD109-02.0-04.0	GC-SD153-00.0-02.0	GC-SD153-02.0-03.2	GC-SD145-00.0-02.0	GC-SD145-02.0-03.5	GC-SD146-00.0-02.0	GC-SD146-02.0-04.0
Sample Depth:		6-6.6	0-2	2-4	4-6	6-7.3	0-2	2-4	4-6	4-6	6-8	0-2	2-4	0-2	2-3.2	0-2	2-3.5	0-2	2-4
Sample Date:		3/4/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/4/2010	3/4/2010	4/15/2010	4/15/2010	4/9/2010	4/9/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	8,300 U	**2,800 J**	**660 J**	**2,200 J**	**230,000 J**	**2,300 J**	**9,500 J**	**24,000 J**	**13,000**	8,500 U	17,000 UJ	13,000 U	**810 J**	**2,000 J**	**580 J**	**12,000 J**	**16 J**	**600 J**
Bis(2-chloroethoxy) methane	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Bis(2-chloroethyl) ether	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Bis(2-chloroisopropyl) ether	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**72,000**	49,000 U	**53,000**	57,000 U	320,000 U	**22,000**	**56,000**	**93,000**	**110,000**	**24,000**	**23,000 J**	**25,000**	7,700 U	33,000 U	**15,000**	**2,200 J**	450 U	50,000 U
Caprolactam	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Carbazole	ug/kg	8,300 U	**970 J**	**760 J**	**5,200 J**	**22,000 J**	13,000 U	9,600 U	31,000 U	**2,600 J**	8,500 U	17,000 UJ	13,000 U	5,100 U	**960 J**	10,000 U	**2,300 J**	450 U	13,000 U
Chrysene	ug/kg	**12,000**	**22,000**	**9,500 J**	**67,000**	**270,000 J**	**11,000 J**	**35,000**	**57,000**	**36,000**	**25,000**	**10,000 J**	**11,000 J**	**4,800 J**	**15,000**	**15,000**	**84,000 J**	**770**	**23,000 J**
Dibenz(a,h)anthracene	ug/kg	8,300 U	**1,800 J**	**1,400 J**	**6,000 J**	320,000 U	13,000 U	**3,400 J**	**4,800 J**	**4,100 J**	**2,400 J**	17,000 UJ	13,000 U	5,100 U	**2,200 J**	**1,400 J**	**4,900 J**	**51 J**	**2,000 J**
Dibenzofuran	ug/kg	**2,100 J**	**2,900 J**	**1,500 J**	**9,600 J**	**62,000 J**	13,000 U	**4,600 J**	**9,400 J**	**6,000 J**	**2,300 J**	17,000 UJ	13,000 U	**620 J**	**2,500 J**	**460 J**	**6,700 J**	**31 J**	13,000 U
Diethyl phthalate	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Dimethyl phthalate	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Di-n-butyl phthalate	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Di-n-octylphthalate	ug/kg	**9,100**	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	**20,000 J**	**38,000**	**7,100 J**	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Fluoranthene	ug/kg	**23,000**	**37,000**	**18,000**	**120,000**	**540,000**	**25,000**	**77,000**	**150,000**	**69,000 J**	**47,000**	**18,000 J**	**20,000**	**9,400**	**30,000**	**20,000**	**220,000 J**	**820**	**41,000**
Fluorene	ug/kg	**8,000 J**	**19,000**	**8,100 J**	**58,000**	**530,000**	**6,800 J**	**29,000**	**61,000**	**31,000**	**16,000**	**3,700 J**	13,000 U	**3,400 J**	**15,000**	**2,100 J**	**57,000**	**72 J**	**3,200 J**
Hexachlorobenzene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Hexachlorobutadiene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Hexachlorocyclopentadiene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Hexachloroethane	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**4,000 J**	**9,500 J**	**5,300 J**	**26,000 J**	**98,000 J**	**3,800 J**	**13,000 J**	**21,000 J**	**16,000 J**	**9,900 J**	**3,400 J**	**3,300 J**	**1,700 J**	**6,300 J**	**3,600 J**	**12,000 J**	**140 J**	**5,200 J**
Isophorone	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Naphthalene	ug/kg	**8,000 J**	**22,000**	9,900 U	29,000 U	**3,900,000**	**17,000**	**73,000**	**220,000**	**100,000**	**14,000**	**15,000 J**	**18,000**	5,100 U	**19,000**	**7,800 J**	**140,000**	450 U	13,000 U
Nitrobenzene	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
N-nitrosodi-n-propylamine	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
N-nitrosodiphenylamine	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Pentachlorophenol	ug/kg	17,000 U	26,000 U	20,000 U	57,000 U	640,000 U	26,000 U	19,000 U	63,000 U	21,000 U	17,000 U	33,000 UJ	26,000 U	10,000 U	24,000 U	20,000 U	65,000 U	870 U	25,000 U
Phenanthrene	ug/kg	**42,000**	**87,000**	**36,000**	**260,000**	**1,700,000**	**40,000**	**130,000**	**250,000**	**130,000 J**	**71,000**	**24,000 J**	**21,000**	**20,000**	**60,000**	**10,000**	**320,000**	**440 J**	**23,000**
Phenol	ug/kg	8,300 U	13,000 U	9,900 U	29,000 U	320,000 U	13,000 U	9,600 U	31,000 U	11,000 U	8,500 U	17,000 UJ	13,000 U	5,100 U	12,000 U	10,000 U	33,000 U	450 U	13,000 U
Pyrene	ug/kg	**29,000**	**62,000**	**25,000**	**180,000**	**970,000**	**29,000**	**97,000**	**150,000**	**93,000**	**61,000**	**24,000 J**	**27,000**	**16,000**	**37,000**	**34,000**	**260,000 J**	**1,200**	**61,000**
Total PAHs	ug/kg	**203,800**	**452,400**	**169,400**	**1,213,000**	**12,619,000**	**211,800**	**748,100**	**1,492,900**	**799,000**	**396,900**	**155,900**	**161,000**	**81,590**	**315,200**	**149,100**	**1,932,900**	**5,619**	**226,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD146	GC-SD146	GC-SD147	GC-SD147	GC-SD148	GC-SD148	GC-SD148	GC-SD110	GC-SD110	GC-SD110	GC-SD127	GC-SD127	GC-SD127	GC-SD127	GC-SD128	GC-SD128	GC-SD129	GC-SD129
Sample Number:		GC-SD146-04.0-06.0	GC-SD146-06.0-06.6	GC-SD147-00.0-02.0	GC-SD147-02.0-03.1	GC-SD148-00.0-02.0	GC-SD148-02.0-04.0	GC-SD148-04.0-05.5	GC-SD110-00.0-02.0	GC-SD110-02.0-04.0	GC-SD110-04.0-05.0	GC-SD127-00.0-02.0	GC-SD127-02.0-04.0	GC-SD127-04.0-06.0	D-03112010-01	GC-SD128-00.0-02.0	GC-SD128-02.0-02.5	GC-SD129-00.0-02.0	GC-SD129-02.0-04.0
Sample Depth:		4-6	6-6.6	0-2	2-3.1	0-2	2-4	4-5.5	0-2	2-4	4-5	0-2	2-4	4-6	4-6	0-2	2-2.5	0-2	2-4
Sample Date:		4/12/2010	4/12/2010	4/9/2010	4/9/2010	4/14/2010	4/14/2010	4/14/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	4/14/2010	4/14/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 UR	12,000 UR	50,000 UR	97,000 UR	13,000 U	23,000 U	12,000 U	30,000 U
2,3,4,6-tetrachlorophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,4,5-trichlorophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,4,6-trichlorophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,4-dichlorophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,4-dimethylphenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,4-dinitrophenol	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 U	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
2,4-dinitrotoluene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2,6-dinitrotoluene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2-chloronaphthalene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2-chlorophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2-methylnaphthalene	ug/kg	**48,000**	**81,000**	**1,100 J**	**23,000**	**16 J**	**41,000**	**590,000**	**4,200 J**	11,000 U	9,500 U	11,000 U	**26,000**	**4,200,000 J**	**5,000,000 J**	**3,900 J**	**110,000**	**2,800 J**	**210,000**
2-methylphenol (o-cresol)	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
2-nitroaniline	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 U	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
2-nitrophenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
3,3'-dichlorobenzidine	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
3-nitroaniline	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 U	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
4,6-dinitro-2-methylphenol	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 UJ	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
4-bromophenyl phenyl ether	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
4-chloro-3-methylphenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
4-chloroaniline	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
4-chlorophenyl phenyl ether	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
4-methylphenol (p-cresol)	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	**28 J**	**1,600 J**	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
4-nitroaniline	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 U	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
4-nitrophenol	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 U	23,000 U	100,000 U	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
Acenaphthene	ug/kg	**130,000**	**230,000**	**7,000 J**	**34,000**	**110 J**	**87,000**	**1,100,000**	**44,000**	**160,000**	**130,000**	**6,200 J**	**30,000**	**2,600,000 J**	**2,800,000 J**	**14,000**	**79,000**	**11,000 J**	**130,000**
Acenaphthylene	ug/kg	**10,000 J**	**19,000 J**	**1,400 J**	**6,500 J**	**120 J**	**8,500 J**	**50,000 J**	**2,500 J**	**12,000**	**10,000**	**3,600 J**	**8,000 J**	**120,000**	**130,000**	**6,700 J**	**43,000**	**2,700 J**	**12,000 J**
Acetophenone	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	**5,600 J**	12,000 U	30,000 U
Anthracene	ug/kg	**39,000**	**150,000**	**5,800 J**	**41,000**	**140 J**	**60,000**	**860,000**	**9,300 J**	**31,000**	**24,000**	**8,500 J**	**41,000**	**2,000,000 J**	**2,200,000 J**	**22,000**	**110,000**	**17,000**	**98,000**
Atrazine	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Benzaldehyde	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Benzo(a)anthracene	ug/kg	**37,000 J**	**59,000 J**	13,000 U	**38,000**	**300 J**	**48,000**	**330,000**	**13,000 J**	**44,000**	**45,000**	**14,000**	**36,000**	**630,000**	**640,000**	**25,000**	**280,000**	**25,000**	**72,000**
Benzo(a)pyrene	ug/kg	24,000 U	60,000 U	**4,300 J**	**31,000**	440 U	**35,000**	**230,000**	**11,000 J**	**34,000**	**33,000**	**12,000**	**28,000**	**410,000**	**420,000**	**20,000**	**240,000**	**17,000**	**48,000**
Benzo(b)fluoranthene	ug/kg	24,000 U	60,000 U	**1,700 J**	**15,000 J**	440 U	**30,000**	160,000 U	**7,700 J**	**18,000**	**18,000**	**7,500 J**	**20,000**	**250,000**	**200,000**	**11,000 J**	**220,000**	**19,000**	**44,000**
Benzo(g,h,i)perylene	ug/kg	**8,300 J**	**32,000 J**	**2,100 J**	**7,400 J**	**140 J**	**17,000 J**	**87,000 J**	**4,100 J**	**12,000**	**11,000**	**5,600 J**	**9,800 J**	**100,000**	**95,000 J**	**8,800 J**	**90,000**	**11,000 J**	**24,000 J**
Benzo(k)fluoranthene	ug/kg	24,000 U	60,000 U	**2,500 J**	**18,000 J**	440 U	20,000 U	160,000 U	**6,000 J**	**25,000**	**21,000**	**8,600 J**	**17,000**	**250,000**	**280,000**	**15,000**	**190,000**	12,000 U	30,000 U
Benzyl butyl phthalate	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	**2,000 J**	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	**2,000 J**	**4,100 J**	12,000 U	30,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD146	GC-SD146	GC-SD147	GC-SD147	GC-SD148	GC-SD148	GC-SD148	GC-SD110	GC-SD110	GC-SD110	GC-SD127	GC-SD127	GC-SD127	GC-SD127	GC-SD128	GC-SD128	GC-SD129	GC-SD129
Sample Number:		GC-SD146-04.0-06.0	GC-SD146-06.0-06.6	GC-SD147-00.0-02.0	GC-SD147-02.0-03.1	GC-SD148-00.0-02.0	GC-SD148-02.0-04.0	GC-SD148-04.0-05.5	GC-SD110-00.0-02.0	GC-SD110-02.0-04.0	GC-SD110-04.0-05.0	GC-SD127-00.0-02.0	GC-SD127-02.0-04.0	GC-SD127-04.0-06.0	D-03112010-01	GC-SD128-00.0-02.0	GC-SD128-02.0-02.5	GC-SD129-00.0-02.0	GC-SD129-02.0-04.0
Sample Depth:		4-6	6-6.6	0-2	2-3.1	0-2	2-4	4-5.5	0-2	2-4	4-5	0-2	2-4	4-6	4-6	0-2	2-2.5	0-2	2-4
Sample Date:		4/12/2010	4/12/2010	4/9/2010	4/9/2010	4/14/2010	4/14/2010	4/14/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	4/14/2010	4/14/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**10,000 J**	**28,000 J**	**400 J**	**800 J**	440 U	**2,700 J**	**58,000 J**	14,000 U	**3,800 J**	**6,600 J**	11,000 U	**4,000 J**	**380,000**	**380,000**	13,000 U	23,000 U	**760 J**	**21,000 J**
Bis(2-chloroethoxy) methane	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Bis(2-chloroethyl) ether	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Bis(2-chloroisopropyl) ether	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	36,000 U	60,000 U	**8,000 J**	**120,000**	1,400 U	82,000 U	160,000 U	**32,000**	**78,000**	**45,000**	**36,000**	**89,000**	50,000 U	97,000 U	**68,000**	**170,000**	**60,000**	74,000 U
Caprolactam	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Carbazole	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	**28,000 J**	**31,000 J**	13,000 U	23,000 U	**2,500 J**	**2,400 J**
Chrysene	ug/kg	**41,000 J**	**58,000 J**	13,000 U	**43,000**	**470**	**48,000**	**280,000**	**14,000 J**	**44,000**	**42,000**	**15,000**	**36,000**	**590,000**	**640,000**	**26,000**	**250,000**	**27,000**	**73,000**
Dibenz(a,h)anthracene	ug/kg	**2,200 J**	**11,000 J**	**650 J**	**1,900 J**	440 U	**4,300 J**	**25,000 J**	14,000 U	**4,400 J**	**3,200 J**	11,000 U	**2,900 J**	**50,000 J**	**36,000 J**	**2,500 J**	**37,000**	**2,200 J**	**6,700 J**
Dibenzofuran	ug/kg	**5,100 J**	**12,000 J**	**480 J**	**2,900 J**	440 U	**6,100 J**	**62,000 J**	14,000 U	**7,400 J**	**6,400 J**	11,000 U	**2,900 J**	**160,000**	**120,000**	13,000 U	**6,600 J**	**2,000 J**	**10,000 J**
Diethyl phthalate	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Dimethyl phthalate	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Di-n-butyl phthalate	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Di-n-octylphthalate	ug/kg	24,000 U	60,000 U	13,000 U	**7,300 J**	440 U	20,000 U	160,000 U	14,000 U	**2,800 J**	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	**4,900 J**	**18,000 J**	12,000 U	30,000 U
Fluoranthene	ug/kg	**66,000 J**	**140,000**	**8,100 J**	**100,000**	**530**	**84,000**	**620,000**	**23,000**	**92,000**	**100,000**	**25,000**	**63,000**	**1,300,000 J**	**1,200,000**	**42,000**	**260,000**	**50,000**	**120,000**
Fluorene	ug/kg	**24,000 J**	**77,000**	**2,800 J**	**12,000 J**	**38 J**	**37,000**	**590,000**	**2,600 J**	**9,800 J**	**10,000**	11,000 U	**18,000**	**1,400,000 J**	**1,400,000**	**6,400 J**	**43,000**	**5,700 J**	**75,000**
Hexachlorobenzene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Hexachlorobutadiene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Hexachlorocyclopentadiene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Hexachloroethane	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**6,700 J**	**25,000 J**	**1,500 J**	**5,900 J**	**110 J**	**18,000 J**	**85,000 J**	**4,900 J**	**15,000**	**13,000**	**5,900 J**	**11,000 J**	**140,000**	**130,000**	**9,800 J**	**140,000**	**10,000 J**	**23,000 J**
Isophorone	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Naphthalene	ug/kg	**80,000**	**130,000**	**4,100 J**	**18,000 J**	440 U	**31,000**	**640,000**	**5,500 J**	**2,400 J**	**2,500 J**	11,000 U	**22,000**	**4,200,000 J**	**5,300,000 J**	**3,100 J**	**190,000**	12,000 U	**200,000**
Nitrobenzene	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 UJ	12,000 U	50,000 UJ	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
N-nitrosodi-n-propylamine	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
N-nitrosodiphenylamine	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Pentachlorophenol	ug/kg	48,000 U	120,000 U	26,000 U	44,000 U	850 U	40,000 U	320,000 U	27,000 U	21,000 U	19,000 U	23,000 UJ	23,000 U	100,000 UJ	190,000 U	25,000 U	47,000 U	23,000 U	60,000 U
Phenanthrene	ug/kg	**160,000**	**540,000**	**16,000**	**150,000**	**230 J**	**160,000**	**2,000,000**	**18,000**	**18,000**	**7,200 J**	**5,900 J**	**98,000**	**4,300,000 J**	**4,800,000 J**	**48,000**	**220,000**	**45,000**	**290,000**
Phenol	ug/kg	24,000 U	60,000 U	13,000 U	22,000 U	440 U	20,000 U	160,000 U	14,000 U	11,000 U	9,500 U	11,000 U	12,000 U	50,000 U	97,000 U	13,000 U	23,000 U	12,000 U	30,000 U
Pyrene	ug/kg	**100,000 J**	**230,000**	**12,000 J**	**110,000**	**550**	**130,000**	**840,000**	**31,000**	**130,000**	**110,000**	**31,000**	**90,000**	**1,700,000 J**	**1,900,000 J**	**55,000**	**250,000**	**60,000**	**190,000**
Total PAHs	ug/kg	**752,200**	**1,782,000**	**71,050**	**654,700**	**2,754**	**838,800**	**8,327,000**	**200,800**	**651,600**	**579,900**	**148,800**	**556,700**	**24,240,000**	**27,171,000**	**319,200**	**2,752,000**	**305,400**	**1,615,700**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD129	GC-SD129	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD112	GC-SD112	GC-SD112	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD37B	GC-SD37B
Sample Number:		GC-SD129-04.0-06.0	GC-SD129-06.0-06.5	GC-SD111-00.0-02.0	GC-SD111-02.0-04.0	D-03162010-02	GC-SD111-04.0-06.0	GC-SD111-06.0-08.0	GC-SD112-00.0-02.0	GC-SD112-02.0-04.0	D-03122010-01	GC-SD113-00.0-02.0	GC-SD113-02.0-04.0	GC-SD113-04.0-06.0	D-03152010-01	GC-SD113-06.0-08.0	GC-SD113-08.0-09.0	GC-SD037B-00.0-00.5	GC-SD037B-01.4-01.9
Sample Depth:		4-6	6-6.5	0-2	2-4	2-4	4-6	6-8	0-2	2-4	2-4	0-2	2-4	4-6	4-6	6-8	8-9	0-0.5	1.4-1.9
Sample Date:		4/14/2010	4/14/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/12/2010	3/12/2010	3/12/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	4/13/2010	4/13/2010
Sample Type:		N	N	N	N	FD	N	N	N	N	FD	N	N	N	FD	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 UR	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,3,4,6-tetrachlorophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,4,5-trichlorophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,4,6-trichlorophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,4-dichlorophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,4-dimethylphenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 UJ	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,4-dinitrophenol	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
2,4-dinitrotoluene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2,6-dinitrotoluene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2-chloronaphthalene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2-chlorophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2-methylnaphthalene	ug/kg	**3,800,000**	**920,000**	**18,000**	**22,000 J**	**26,000**	**45,000**	**170,000**	6,300 U	**2,000 J**	**3,000 J**	**7,500 J**	**29,000**	**38,000**	**84,000**	**2,000,000**	**3,400,000 J**	**2,000 J**	**4,800 J**
2-methylphenol (o-cresol)	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 UJ	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
2-nitroaniline	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
2-nitrophenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
3,3'-dichlorobenzidine	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
3-nitroaniline	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
4,6-dinitro-2-methylphenol	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
4-bromophenyl phenyl ether	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
4-chloro-3-methylphenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
4-chloroaniline	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	**2,700 J**	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
4-chlorophenyl phenyl ether	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
4-methylphenol (p-cresol)	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 UJ	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 UJ	7,800 U
4-nitroaniline	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
4-nitrophenol	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
Acenaphthene	ug/kg	**2,100,000**	**580,000**	**31,000**	**38,000**	**31,000**	**36,000**	**94,000**	6,300 U	**7,000 J**	**7,400 J**	**9,600 J**	**22,000**	**35,000**	**62,000**	**1,100,000**	**1,800,000 J**	**19,000**	**33,000**
Acenaphthylene	ug/kg	**98,000 J**	**32,000 J**	**33,000**	**17,000 J**	**12,000**	**16,000**	**19,000 J**	6,300 U	**3,200 J**	**2,800 J**	**4,400 J**	**10,000**	**8,700 J**	**8,400 J**	**61,000 J**	**77,000 J**	**6,300 J**	**7,500 J**
Acetophenone	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	**1,800 J**	9,600 U	**2,200 J**	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Anthracene	ug/kg	**1,100,000**	**320,000**	**66,000**	**63,000**	**51,000**	**62,000**	**99,000**	6,300 U	**13,000**	**15,000**	**15,000**	**33,000 J**	**34,000 J**	**40,000**	**720,000**	**710,000**	**26,000**	**37,000**
Atrazine	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Benzaldehyde	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Benzo(a)anthracene	ug/kg	**590,000**	**190,000**	**120,000**	**66,000**	**41,000**	**69,000**	**80,000**	**2,800 J**	**32,000**	**20,000**	**20,000**	**35,000**	**36,000**	**30,000**	**270,000**	**340,000**	**23,000**	**37,000**
Benzo(a)pyrene	ug/kg	**420,000**	130,000 U	**83,000**	**44,000**	**31,000**	**45,000**	**48,000**	**2,100 J**	**31,000**	**13,000**	**14,000**	**24,000**	**26,000**	**20,000**	**160,000 J**	**210,000**	**17,000**	**27,000**
Benzo(b)fluoranthene	ug/kg	390,000 U	130,000 U	**54,000**	**27,000**	**15,000**	**32,000**	**27,000 J**	**1,500 J**	**30,000**	**11,000**	**10,000**	**16,000**	**18,000**	**12,000 J**	**76,000 J**	**100,000**	14,000 U	**24,000**
Benzo(g,h,i)perylene	ug/kg	**190,000 J**	**50,000 J**	**40,000**	**21,000 J**	**14,000 J**	**23,000**	**21,000 J**	**1,100 J**	**17,000**	**6,700 J**	**6,300 J**	**12,000**	**14,000**	**7,300 J**	**59,000 J**	**61,000 J**	**8,300 J**	**15,000 J**
Benzo(k)fluoranthene	ug/kg	390,000 U	130,000 U	**53,000**	**30,000**	**23,000**	**29,000**	**31,000 J**	**1,700 J**	**30,000**	**9,600**	**10,000**	**16,000**	**16,000**	**13,000 J**	**110,000 J**	**140,000**	14,000 U	7,800 U
Benzyl butyl phthalate	ug/kg	390,000 U	130,000 U	**4,500 J**	25,000 U	**3,400 J**	**2,200 J**	33,000 U	6,300 U	**3,900 J**	7,400 U	**1,600 J**	**2,100 J**	**2,600 J**	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD129	GC-SD129	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD112	GC-SD112	GC-SD112	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD37B	GC-SD37B
Sample Number:		GC-SD129-04.0-06.0	GC-SD129-06.0-06.5	GC-SD111-00.0-02.0	GC-SD111-02.0-04.0	D-03162010-02	GC-SD111-04.0-06.0	GC-SD111-06.0-08.0	GC-SD112-00.0-02.0	GC-SD112-02.0-04.0	D-03122010-01	GC-SD113-00.0-02.0	GC-SD113-02.0-04.0	GC-SD113-04.0-06.0	D-03152010-01	GC-SD113-06.0-08.0	GC-SD113-08.0-09.0	GC-SD037B-00.0-00.5	GC-SD037B-01.4-01.9
Sample Depth:		4-6	6-6.5	0-2	2-4	2-4	4-6	6-8	0-2	2-4	2-4	0-2	2-4	4-6	4-6	6-8	8-9	0-0.5	1.4-1.9
Sample Date:		4/14/2010	4/14/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/12/2010	3/12/2010	3/12/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	4/13/2010	4/13/2010
Sample Type:		N	N	N	N	FD	N	N	N	N	FD	N	N	N	FD	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**360,000 J**	**120,000 J**	**3,100 J**	**4,800 J**	**4,500 J**	**5,700 J**	**18,000 J**	6,300 U	7,200 U	7,400 U	**1,400 J**	**3,500 J**	**5,800 J**	**11,000 J**	**170,000 J**	**260,000**	**1,500 J**	**1,200 J**
Bis(2-chloroethoxy) methane	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Bis(2-chloroethyl) ether	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 UJ	7,800 U
Bis(2-chloroisopropyl) ether	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Bis(2-ethylhexyl) phthalate	ug/kg	390,000 U	130,000 U	**140,000**	**250,000**	**110,000**	**120,000**	**8,300 J**	**13,000**	**11,000**	**16,000**	**57,000**	**84,000**	**71,000**	**40,000**	180,000 U	79,000 U	14,000 U	31,000 U
Caprolactam	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Carbazole	ug/kg	**25,000 J**	**8,100 J**	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	**1,300 J**	**1,600 J**	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	**26,000 J**	14,000 U	7,800 U
Chrysene	ug/kg	**610,000**	**180,000**	**110,000**	**66,000**	**41,000**	**67,000**	**83,000**	**2,800 J**	**33,000**	**18,000**	**21,000**	**36,000**	**37,000**	**33,000**	**270,000**	**300,000**	**23,000**	**32,000**
Dibenz(a,h)anthracene	ug/kg	**63,000 J**	**15,000 J**	**14,000**	**6,900 J**	**4,400 J**	**8,300 J**	**7,500 J**	6,300 U	**8,300**	**2,200 J**	**2,000 J**	**4,100 J**	**5,000 J**	**2,600 J**	180,000 U	**21,000 J**	**2,200 J**	**3,500 J**
Dibenzofuran	ug/kg	**100,000 J**	**37,000 J**	**2,800 J**	**4,100 J**	**3,200 J**	**4,500 J**	**7,100 J**	6,300 U	**1,400 J**	**1,900 J**	9,600 U	**2,100 J**	**3,000 J**	**5,400 J**	**68,000 J**	**86,000**	**1,600 J**	**1,600 J**
Diethyl phthalate	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Dimethyl phthalate	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Di-n-butyl phthalate	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Di-n-octylphthalate	ug/kg	390,000 U	130,000 U	**13,000**	25,000 U	**9,600 J**	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	**7,000 J**	**6,600 J**	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Fluoranthene	ug/kg	**960,000**	**320,000**	**130,000**	**110,000**	**74,000**	**100,000**	**140,000**	**5,800 J**	**39,000**	**36,000**	**37,000**	**56,000 J**	**54,000 J**	**56,000**	**690,000**	**720,000**	**32,000**	**48,000**
Fluorene	ug/kg	**1,000,000**	**330,000**	**22,000**	**29,000**	**22,000**	**34,000**	**73,000**	6,300 U	**2,300 J**	**3,900 J**	**6,500 J**	**18,000**	**25,000**	**36,000**	**500,000**	**870,000**	**9,500 J**	**8,400**
Hexachlorobenzene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 UJ
Hexachlorobutadiene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Hexachlorocyclopentadiene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Hexachloroethane	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**150,000 J**	**54,000 J**	**55,000**	**24,000 J**	**14,000 J**	**27,000**	**23,000 J**	**1,400 J**	**25,000**	**8,300**	**7,500 J**	**14,000**	**17,000**	**8,800 J**	**69,000 J**	**87,000**	**7,600 J**	**12,000**
Isophorone	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Naphthalene	ug/kg	**4,000,000**	**1,200,000**	**12,000 J**	**18,000 J**	**14,000**	**24,000**	**110,000**	6,300 U	**6,800 J**	**11,000**	**7,400 J**	**20,000**	**69,000**	**160,000**	**2,500,000**	**4,200,000 J**	14,000 U	7,800 U
Nitrobenzene	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
N-nitrosodi-n-propylamine	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
N-nitrosodiphenylamine	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Pentachlorophenol	ug/kg	770,000 U	250,000 U	24,000 U	50,000 U	23,000 U	26,000 U	67,000 U	13,000 U	14,000 U	15,000 U	19,000 U	19,000 U	18,000 U	29,000 U	360,000 U	160,000 U	29,000 U	16,000 U
Phenanthrene	ug/kg	**3,300,000**	**990,000**	**120,000**	**150,000**	**110,000**	**150,000**	**270,000**	**1,200 J**	**19,000**	**22,000**	**39,000**	**78,000 J**	**84,000 J**	**120,000**	**1,500,000**	**2,300,000 J**	**60,000**	**48,000**
Phenol	ug/kg	390,000 U	130,000 U	12,000 U	25,000 U	12,000 U	13,000 U	33,000 U	6,300 U	7,200 U	7,400 U	9,600 U	9,300 U	9,100 U	14,000 U	180,000 U	79,000 U	14,000 U	7,800 U
Pyrene	ug/kg	**1,800,000**	**470,000**	**170,000**	**140,000**	**93,000**	**130,000**	**160,000**	**7,000**	**46,000**	**42,000**	**44,000**	**66,000**	**63,000**	**76,000**	**670,000**	**830,000**	**48,000**	**70,000**
Total PAHs	ug/kg	**20,181,000**	**5,651,000**	**1,131,000**	**871,900**	**616,400**	**897,300**	**1,455,500**	**27,400**	**344,600**	**231,900**	**261,200**	**489,100**	**579,700**	**769,100**	**10,755,000**	**16,166,000**	**283,900**	**407,200**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD37B	GC-SD38A	GC-SD38A	GC-SD116	GC-SD116	GC-SD116	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD115	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD131
Sample Number:		GC-SD037B-02.5-04.2	GC-SD038A-02.1-02.6	GC-SD038A-02.6-04.4	GC-SD116-00.0-02.0	GC-SD116-02.0-04.0	GC-SD116-04.0-06.0	GC-SD117-00.0-02.0	GC-SD117-02.0-04.0	GC-SD117-04.0-06.0	D-03182010-01	GC-SD117-06.0-07.6	GC-SD115-00.0-01.5	GC-SD130-00.0-02.0	GC-SD130-02.0-04.0	D-03222010-01	GC-SD130-04.0-06.0	GC-SD130-06.0-07.0	GC-SD131-00.0-01.3
Sample Depth:		2.5-4.2	2.1-2.6	2.6-4.4	0-2	2-4	4-6	0-2	2-4	4-6	4-6	6-7.6	0-1.5	0-2	2-4	2-4	4-6	6-7	0-1.3
Sample Date:		4/13/2010	4/13/2010	4/13/2010	3/17/2010	3/17/2010	3/17/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/17/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/18/2010
Sample Type:		N	N	N	N	N	N	N	N	N	FD	N	N	N	N	FD	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,3,4,6-tetrachlorophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,4,5-trichlorophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,4,6-trichlorophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,4-dichlorophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,4-dimethylphenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	**400 J**	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2,4-dinitrophenol	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
2,4-dinitrotoluene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	**26,000 J**	46,000 U
2,6-dinitrotoluene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2-chloronaphthalene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2-chlorophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2-methylnaphthalene	ug/kg	**1,700,000**	**2,200,000**	**2,000,000**	**1,900**	**25,000**	**160,000**	**7,400 J**	**14,000**	**140,000**	**190,000**	**1,600,000**	**540,000**	**20,000**	**1,400,000**	**1,400,000**	**2,500,000**	**2,000,000**	**360,000**
2-methylphenol (o-cresol)	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
2-nitroaniline	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
2-nitrophenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
3,3'-dichlorobenzidine	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
3-nitroaniline	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
4,6-dinitro-2-methylphenol	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
4-bromophenyl phenyl ether	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
4-chloro-3-methylphenol	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
4-chloroaniline	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
4-chlorophenyl phenyl ether	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	**110 J**	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
4-methylphenol (p-cresol)	ug/kg	180,000 U	230,000 U	170,000 U	**150 J**	**500 J**	42,000 U	**240 J**	**410 J**	**650 J**	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
4-nitroaniline	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
4-nitrophenol	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
Acenaphthene	ug/kg	**840,000**	**960,000**	**740,000**	**7,200**	**25,000**	**120,000**	**8,600 J**	**9,800**	**59,000**	**79,000**	**800,000**	**410,000**	**27,000**	**310,000**	**330,000**	**910,000**	**770,000**	**190,000**
Acenaphthylene	ug/kg	**48,000 J**	**150,000 J**	**130,000 J**	**1,600 J**	**3,300 J**	**23,000 J**	**2,400 J**	**2,500 J**	**12,000**	**18,000 J**	**82,000 J**	**110,000 J**	**6,100 J**	**340,000**	**340,000**	**340,000**	**160,000 J**	**33,000 J**
Acetophenone	ug/kg	180,000 U	230,000 U	170,000 U	**210 J**	**650 J**	**4,800 J**	**360 J**	**360 J**	12,000 U	49,000 U	160,000 U	**9,200 J**	**1,200 J**	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Anthracene	ug/kg	**390,000**	**530,000**	**360,000**	**8,500 J**	**24,000 J**	**110,000**	**11,000 J**	**11,000**	**52,000**	**83,000**	**540,000**	**420,000**	**24,000**	**360,000**	**370,000**	**630,000**	**500,000**	**130,000**
Atrazine	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Benzaldehyde	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	**480 J**	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Benzo(a)anthracene	ug/kg	**170,000 J**	**400,000**	**290,000**	**6,000**	**16,000**	**66,000**	**10,000 J**	**9,700**	**40,000**	**59,000**	**310,000**	**270,000**	**21,000**	**240,000**	**230,000**	**300,000**	**240,000 J**	**66,000**
Benzo(a)pyrene	ug/kg	180,000 U	**270,000**	**190,000**	**4,500**	**9,600**	**50,000**	**7,000 J**	**6,300**	**27,000**	**37,000 J**	**200,000**	**180,000**	**15,000**	**160,000 J**	**160,000 J**	**190,000 J**	**160,000 J**	**44,000 J**
Benzo(b)fluoranthene	ug/kg	180,000 U	230,000 U	**170,000**	**4,100**	**8,500**	**41,000 J**	**6,100 J**	**5,100**	**24,000**	**30,000 J**	**170,000**	**140,000 J**	**7,900 J**	**72,000 J**	**68,000 J**	**81,000 J**	**66,000 J**	**42,000 J**
Benzo(g,h,i)perylene	ug/kg	**52,000 J**	**130,000 J**	**89,000 J**	**2,200**	**5,100**	**19,000 J**	**4,000 J**	**3,700 J**	**12,000**	**20,000 J**	**110,000 J**	**76,000 J**	**4,500 J**	**68,000 J**	**66,000 J**	**79,000 J**	410,000 UJ	**17,000 J**
Benzo(k)fluoranthene	ug/kg	180,000 U	230,000 U	170,000 U	**1,300 J**	**3,200 J**	**12,000 J**	**2,000 J**	**2,100 J**	**5,600 J**	**13,000 J**	**53,000 J**	**52,000 J**	**9,800**	**110,000 J**	**110,000 J**	**140,000 J**	**100,000 J**	**6,900 J**
Benzyl butyl phthalate	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	**600 J**	**790 J**	**3,500 J**	**4,000 J**	**22,000 J**	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD37B	GC-SD38A	GC-SD38A	GC-SD116	GC-SD116	GC-SD116	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD115	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD131
Sample Number:		GC-SD037B-02.5-04.2	GC-SD038A-02.1-02.6	GC-SD038A-02.6-04.4	GC-SD116-00.0-02.0	GC-SD116-02.0-04.0	GC-SD116-04.0-06.0	GC-SD117-00.0-02.0	GC-SD117-02.0-04.0	GC-SD117-04.0-06.0	D-03182010-01	GC-SD117-06.0-07.6	GC-SD115-00.0-01.5	GC-SD130-00.0-02.0	GC-SD130-02.0-04.0	D-03222010-01	GC-SD130-04.0-06.0	GC-SD130-06.0-07.0	GC-SD131-00.0-01.3
Sample Depth:		2.5-4.2	2.1-2.6	2.6-4.4	0-2	2-4	4-6	0-2	2-4	4-6	4-6	6-7.6	0-1.5	0-2	2-4	2-4	4-6	6-7	0-1.3
Sample Date:		4/13/2010	4/13/2010	4/13/2010	3/17/2010	3/17/2010	3/17/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/17/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/18/2010
Sample Type:		N	N	N	N	N	N	N	N	N	FD	N	N	N	N	FD	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**130,000 J**	**200,000 J**	**170,000**	**370 J**	**2,800 J**	**17,000 J**	**990 J**	**1,500 J**	**9,500 J**	**12,000 J**	**110,000 J**	**62,000 J**	**2,000 J**	**96,000 J**	**94,000 J**	**160,000 J**	**120,000 J**	**24,000 J**
Bis(2-chloroethoxy) methane	ug/kg	180,000 U	230,000 U	170,000 U	**58 J**	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Bis(2-chloroethyl) ether	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Bis(2-chloroisopropyl) ether	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	180,000 U	230,000 U	170,000 U	**8,800**	**40,000**	**72,000**	**26,000 J**	**54,000**	**85,000**	**210,000**	160,000 U	160,000 U	**14,000**	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Caprolactam	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Carbazole	ug/kg	**16,000 J**	**23,000 J**	**16,000 J**	1,700 U	**360 J**	**3,800 J**	**230 J**	**320 J**	**1,500 J**	**5,400 J**	**18,000 J**	**9,000 J**	**550 J**	**12,000 J**	**15,000 J**	**22,000 J**	**18,000 J**	**3,500 J**
Chrysene	ug/kg	**170,000 J**	**450,000**	**300,000**	**6,600**	**17,000**	**72,000**	**11,000 J**	**11,000**	**42,000**	**68,000**	**320,000**	**270,000**	**24,000**	**270,000**	**250,000**	**330,000**	**260,000 J**	**73,000**
Dibenz(a,h)anthracene	ug/kg	**22,000 J**	230,000 U	**33,000 J**	**610 J**	**1,200 J**	**9,100 J**	**1,000 J**	**1,100 J**	**4,300 J**	**7,000 J**	**37,000 J**	**34,000 J**	**1,800 J**	210,000 U	**27,000 J**	230,000 U	410,000 U	46,000 U
Dibenzofuran	ug/kg	**59,000 J**	**72,000 J**	**64,000 J**	**570 J**	**2,200 J**	**11,000 J**	**1,000 J**	**1,100 J**	**6,200 J**	**8,800 J**	**54,000 J**	**39,000 J**	9,200 U	**51,000 J**	**54,000 J**	**74,000 J**	**54,000 J**	**12,000 J**
Diethyl phthalate	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Dimethyl phthalate	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Di-n-butyl phthalate	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Di-n-octylphthalate	ug/kg	180,000 U	230,000 U	170,000 U	**390 J**	**2,300 J**	42,000 U	**1,500 J**	**3,900 J**	**5,200 J**	**6,600 J**	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Fluoranthene	ug/kg	**330,000**	**570,000**	**400,000**	**10,000**	**29,000**	**130,000**	**14,000 J**	**15,000**	**65,000**	**100,000**	**500,000**	**400,000**	**33,000**	**350,000**	**350,000**	**490,000**	**360,000 J**	**110,000**
Fluorene	ug/kg	**460,000**	**680,000**	**560,000**	**2,600**	**17,000**	**91,000**	**5,300 J**	**8,000**	**46,000**	**57,000**	**470,000**	**250,000**	**7,800 J**	**370,000**	**360,000**	**610,000**	**460,000**	**120,000**
Hexachlorobenzene	ug/kg	180,000 UJ	230,000 UJ	170,000 UJ	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Hexachlorobutadiene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Hexachlorocyclopentadiene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Hexachloroethane	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**49,000 J**	**110,000 J**	**83,000 J**	**2,300**	**4,600**	**24,000 J**	**3,800 J**	**3,600 J**	**13,000**	**18,000 J**	**81,000 J**	**86,000 J**	**4,300 J**	**53,000 J**	**55,000 J**	**68,000 J**	410,000 U	**18,000 J**
Isophorone	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Naphthalene	ug/kg	**2,400,000**	**2,700,000**	**2,400,000**	**4,600**	**35,000**	**260,000**	**11,000 J**	**16,000**	**150,000**	**310,000**	**2,200,000**	**590,000**	**38,000**	**1,800,000**	**1,800,000**	**3,400,000**	**2,900,000**	**270,000**
Nitrobenzene	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
N-nitrosodi-n-propylamine	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
N-nitrosodiphenylamine	ug/kg	180,000 U	230,000 U	170,000 U	1,700 U	4,300 U	42,000 U	2,900 UJ	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Pentachlorophenol	ug/kg	370,000 U	470,000 U	330,000 U	3,400 U	8,300 U	84,000 U	5,600 UJ	8,700 U	23,000 U	97,000 U	310,000 U	330,000 U	18,000 U	430,000 U	390,000 U	450,000 U	820,000 U	92,000 U
Phenanthrene	ug/kg	**1,100,000**	**1,900,000**	**1,300,000**	**15,000**	**62,000**	**300,000**	**25,000 J**	**31,000**	**160,000**	**240,000**	**1,500,000**	**940,000**	**44,000**	**1,200,000**	**1,200,000**	**1,800,000**	**1,400,000**	**330,000**
Phenol	ug/kg	180,000 U	230,000 U	170,000 U	**82 J**	**170 J**	42,000 U	**99 J**	4,500 U	12,000 U	49,000 U	160,000 U	160,000 U	9,200 U	210,000 U	200,000 U	230,000 U	410,000 U	46,000 U
Pyrene	ug/kg	**480,000**	**960,000**	**590,000**	**15,000 J**	**44,000 J**	**180,000**	**25,000 J**	**24,000**	**93,000**	**150,000**	**750,000**	**610,000**	**55,000**	**660,000**	**630,000**	**880,000**	**650,000**	**180,000**
Total PAHs	ug/kg	**8,211,000**	**12,010,000**	**9,635,000**	**94,010**	**329,500**	**1,667,100**	**154,600**	**173,900**	**944,900**	**1,479,000**	**9,723,000**	**5,378,000**	**343,200**	**7,763,000**	**7,746,000**	**12,748,000**	**10,026,000**	**1,989,900**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD132	GC-SD132	GC-SD132	GC-SD118	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD149	GC-SD149	GC-SD149	GC-SD120	GC-SD133	GC-SD133	GC-SD133
Sample Number:		GC-SD132-00.0-02.0	GC-SD132-02.0-04.0	GC-SD132-04.0-04.7	GC-SD118-00.2-00.7	GC-SD119-00.0-01.2	GC-SD119-04.5-06.0	GC-SD119-06.0-08.0	D-03312010-01	GC-SD119-08.0-10.0	GC-SD119-10.0-12.0	GC-SD119-12.0-13.0	GC-SD149-00.0-02.0	GC-SD149-02.0-04.0	GC-SD149-04.0-04.7	GC-SD120-00.0-01.3	GC-SD133-00.0-02.0	GC-SD133-02.0-04.0	GC-SD133-04.0-06.0
Sample Depth:		0-2	2-4	4-4.7	0.2-0.7	0-1.2	4.5-6	6-8	6-8	8-10	10-12	12-13	0-2	2-4	4-4.7	0-1.3	0-2	2-4	4-6
Sample Date:		3/22/2010	3/22/2010	3/22/2010	4/1/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	4/12/2010	4/12/2010	4/12/2010	3/31/2010	4/6/2010	4/6/2010	4/6/2010
Sample Type:		N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,3,4,6-tetrachlorophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,4,5-trichlorophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,4,6-trichlorophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,4-dichlorophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,4-dimethylphenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,4-dinitrophenol	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
2,4-dinitrotoluene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2,6-dinitrotoluene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2-chloronaphthalene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2-chlorophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2-methylnaphthalene	ug/kg	**32,000**	**1,200,000**	**1,500,000**	**880,000**	**390,000**	**180,000**	**460,000**	**810,000**	**3,800,000**	**370,000**	**140,000**	**39,000**	**1,000,000 J**	**1,000,000 J**	**1,100,000**	**14,000**	**2,300 J**	**330,000**
2-methylphenol (o-cresol)	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
2-nitroaniline	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
2-nitrophenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
3,3'-dichlorobenzidine	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
3-nitroaniline	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
4,6-dinitro-2-methylphenol	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
4-bromophenyl phenyl ether	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
4-chloro-3-methylphenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
4-chloroaniline	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
4-chlorophenyl phenyl ether	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
4-methylphenol (p-cresol)	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	**870 J**	16,000 U	61,000 U
4-nitroaniline	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
4-nitrophenol	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 U	64,000 U	120,000 U	200,000 U	790,000 U	98,000 U	45,000 U	13,000 U	13,000 U	20,000 U	250,000 U	17,000 U	31,000 U	120,000 U
Acenaphthene	ug/kg	**42,000**	**860,000**	**1,300,000**	**540,000**	**200,000**	**91,000**	**260,000**	**420,000**	**1,800,000**	**210,000**	**92,000**	**47,000**	**510,000 J**	**500,000 J**	**570,000**	**20,000**	**4,700 J**	**190,000**
Acenaphthylene	ug/kg	**14,000**	**65,000 J**	**50,000 J**	**60,000 J**	**77,000 J**	**18,000 J**	**35,000 J**	**55,000 J**	**250,000 J**	**15,000 J**	**7,200 J**	**13,000**	**47,000**	**36,000**	**51,000 J**	**2,300 J**	**2,200 J**	**18,000 J**
Acetophenone	ug/kg	**1,000 J**	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Anthracene	ug/kg	**39,000**	**590,000**	**760,000**	**350,000**	**200,000**	**66,000**	**190,000**	**310,000**	**980,000**	**91,000**	**44,000**	**57,000**	**210,000 J**	**360,000 J**	**270,000**	**12,000**	**6,100 J**	**83,000**
Atrazine	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Benzaldehyde	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Benzo(a)anthracene	ug/kg	**40,000**	**280,000**	**400,000 J**	**280,000**	**220,000**	**45,000**	**110,000**	**170,000**	**420,000**	**50,000**	**25,000**	**35,000**	**110,000**	**110,000**	**150,000**	**15,000**	**15,000 J**	**70,000**
Benzo(a)pyrene	ug/kg	**29,000**	**180,000 J**	**260,000 J**	**190,000**	**190,000**	**33,000**	**76,000**	**110,000**	**290,000 J**	**34,000 J**	**17,000 J**	**27,000**	**81,000**	**69,000**	**110,000 J**	**9,100**	**10,000 J**	**30,000 J**
Benzo(b)fluoranthene	ug/kg	**15,000**	**96,000 J**	**120,000 J**	**170,000**	**84,000 J**	**15,000 J**	**35,000 J**	**48,000 J**	**110,000 J**	**13,000 J**	**6,600 J**	**12,000**	**32,000**	**21,000**	**41,000 J**	**10,000**	**11,000 J**	**16,000 J**
Benzo(g,h,i)perylene	ug/kg	**9,900 J**	**65,000 J**	**86,000 J**	**92,000 J**	**93,000 J**	**15,000 J**	**23,000 J**	**43,000 J**	**100,000 J**	**13,000 J**	**7,000 J**	**9,800**	**21,000**	**20,000**	**42,000 J**	**4,700 J**	**3,400 J**	61,000 U
Benzo(k)fluoranthene	ug/kg	**19,000**	**110,000 J**	**150,000 J**	**54,000 J**	**120,000**	**21,000 J**	**54,000 J**	**69,000 J**	**220,000 J**	**24,000 J**	**12,000 J**	**14,000**	**46,000**	**41,000**	**68,000 J**	**2,000 J**	**3,300 J**	**27,000 J**
Benzyl butyl phthalate	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	**15,000 J**	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD132	GC-SD132	GC-SD132	GC-SD118	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD149	GC-SD149	GC-SD149	GC-SD120	GC-SD133	GC-SD133	GC-SD133
Sample Number:		GC-SD132-00.0-02.0	GC-SD132-02.0-04.0	GC-SD132-04.0-04.7	GC-SD118-00.2-00.7	GC-SD119-00.0-01.2	GC-SD119-04.5-06.0	GC-SD119-06.0-08.0	D-03312010-01	GC-SD119-08.0-10.0	GC-SD119-10.0-12.0	GC-SD119-12.0-13.0	GC-SD149-00.0-02.0	GC-SD149-02.0-04.0	GC-SD149-04.0-04.7	GC-SD120-00.0-01.3	GC-SD133-00.0-02.0	GC-SD133-02.0-04.0	GC-SD133-04.0-06.0
Sample Depth:		0-2	2-4	4-4.7	0.2-0.7	0-1.2	4.5-6	6-8	6-8	8-10	10-12	12-13	0-2	2-4	4-4.7	0-1.3	0-2	2-4	4-6
Sample Date:		3/22/2010	3/22/2010	3/22/2010	4/1/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	4/12/2010	4/12/2010	4/12/2010	3/31/2010	4/6/2010	4/6/2010	4/6/2010
Sample Type:		N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**3,400 J**	**100,000 J**	**130,000 J**	**85,000 J**	**44,000 J**	**17,000 J**	**38,000 J**	**63,000 J**	**240,000 J**	**23,000 J**	**9,600 J**	**5,300 J**	**150,000 J**	**130,000**	**69,000 J**	**2,600 J**	**550 J**	**42,000 J**
Bis(2-chloroethoxy) methane	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Bis(2-chloroethyl) ether	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Bis(2-chloroisopropyl) ether	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**30,000**	270,000 U	530,000 U	120,000 U	210,000 U	110,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	11,000 U	6,900 U	10,000 U	130,000 U	**45,000**	**29,000**	**16,000 J**
Caprolactam	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Carbazole	ug/kg	**1,000 J**	270,000 U	530,000 U	**12,000 J**	**7,500 J**	32,000 U	**3,900 J**	**5,900 J**	**29,000 J**	**3,000 J**	**1,200 J**	6,900 U	**6,100 J**	**7,000 J**	**9,600 J**	**2,000 J**	16,000 U	**9,200 J**
Chrysene	ug/kg	**44,000**	**320,000**	**360,000 J**	**270,000**	**250,000**	**47,000**	**110,000**	**170,000**	**410,000**	**49,000**	**24,000**	**41,000 J**	**100,000 J**	**97,000 J**	**160,000**	**14,000**	**15,000 J**	**82,000**
Dibenz(a,h)anthracene	ug/kg	**3,400 J**	270,000 U	530,000 U	**36,000 J**	**25,000 J**	**4,700 J**	**8,800 J**	**16,000 J**	**41,000 J**	**4,400 J**	**1,800 J**	**3,600 J**	**6,800 J**	**6,800 J**	**14,000 J**	**1,300 J**	**1,800 J**	61,000 U
Dibenzofuran	ug/kg	**4,300 J**	**43,000 J**	**60,000 J**	**56,000 J**	**40,000 J**	**10,000 J**	**19,000 J**	**33,000 J**	**99,000 J**	**11,000 J**	**5,200 J**	**2,400 J**	**34,000**	**29,000**	130,000 U	**11,000**	**900 J**	**51,000 J**
Diethyl phthalate	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Dimethyl phthalate	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Di-n-butyl phthalate	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Di-n-octylphthalate	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	**15,000 J**	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	**7,400 J**	**2,000 J**	61,000 U
Fluoranthene	ug/kg	**65,000**	**450,000**	**730,000**	**430,000**	**300,000**	**75,000**	**190,000**	**300,000**	**720,000**	**85,000**	**43,000**	**80,000**	**160,000 J**	**340,000 J**	**260,000**	**42,000**	**25,000**	**160,000**
Fluorene	ug/kg	**15,000**	**360,000**	**530,000 J**	**360,000**	**180,000**	**53,000**	**170,000**	**230,000**	**920,000**	**89,000**	**43,000**	**11,000**	**210,000 J**	**410,000 J**	**280,000**	**15,000**	**1,700 J**	**100,000**
Hexachlorobenzene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Hexachlorobutadiene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Hexachlorocyclopentadiene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Hexachloroethane	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**8,200 J**	**56,000 J**	**70,000 J**	**86,000 J**	**67,000 J**	**10,000 J**	**20,000 J**	**40,000 J**	**94,000 J**	**12,000 J**	**6,000 J**	**7,600**	**17,000**	**17,000**	**32,000 J**	**3,900 J**	**7,100 J**	**15,000 J**
Isophorone	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
Naphthalene	ug/kg	**64,000**	**2,200,000**	**3,700,000**	**1,400,000**	**420,000**	**170,000**	**440,000**	**840,000**	**5,300,000**	**410,000**	**80,000**	**70,000**	**1,800,000 J**	**1,800,000 J**	**1,500,000**	**18,000**	**5,400 J**	**440,000**
Nitrobenzene	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 UJ	32,000 UJ	62,000 UJ	100,000 UJ	400,000 UJ	49,000 UJ	23,000 UJ	6,900 U	6,900 U	10,000 U	130,000 UJ	8,300 U	16,000 U	61,000 U
N-nitrosodi-n-propylamine	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	8,300 U	16,000 U	61,000 U
N-nitrosodiphenylamine	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	**5,900 J**	16,000 U	61,000 U
Pentachlorophenol	ug/kg	23,000 U	540,000 U	1,100,000 U	250,000 U	200,000 UJ	64,000 UJ	120,000 UJ	200,000 UJ	790,000 UJ	98,000 UJ	45,000 UJ	13,000 U	13,000 U	20,000 U	250,000 UJ	17,000 U	31,000 U	120,000 U
Phenanthrene	ug/kg	**84,000**	**1,500,000**	**2,300,000**	**1,300,000**	**720,000**	**220,000**	**590,000**	**960,000**	**2,800,000**	**310,000**	**150,000**	**98,000 J**	**760,000 J**	**730,000 J**	**940,000**	**58,000 J**	**6,900 J**	**560,000**
Phenol	ug/kg	11,000 U	270,000 U	530,000 U	120,000 U	98,000 U	32,000 U	62,000 U	100,000 U	400,000 U	49,000 U	23,000 U	6,900 U	6,900 U	10,000 U	130,000 U	**620 J**	**1,000 J**	61,000 U
Pyrene	ug/kg	**100,000**	**820,000**	**1,300,000**	**620,000**	**580,000**	**140,000**	**330,000**	**500,000**	**1,400,000**	**160,000**	**77,000**	**100,000 J**	**270,000 J**	**350,000 J**	**470,000**	**40,000**	**30,000**	**200,000**
Total PAHs	ug/kg	**623,500**	**9,152,000**	**13,616,000**	**7,118,000**	**4,116,000**	**1,203,700**	**3,101,800**	**5,091,000**	**19,655,000**	**1,939,400**	**775,600**	**665,000**	**5,380,800**	**5,907,800**	**6,058,000**	**281,300**	**150,900**	**2,321,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD133	GC-SD134	GC-SD134	GC-SD134	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD122	GC-SD136	GC-SD138	GC-SD150	GC-SD150	GC-SD150	GC-SD150	GC-SD151
Sample Number:		GC-SD133-06.0-07.8	GC-SD134-00.0-02.0	GC-SD134-02.0-04.0	GC-SD134-04.0-04.4	GC-SD135-00.0-02.0	GC-SD135-02.0-04.0	D-04062010-01	GC-SD135-04.0-06.0	GC-SD135-06.0-08.0	GC-SD135-08.0-10.0	GC-SD122-00.0-00.7	GC-SD136-00.0-02.0	GC-SD138-00.0-01.7	GC-SD150-00.0-02.0	GC-SD150-02.0-04.0	GC-SD150-04.0-06.0	GC-SD150-06.0-08.2	GC-SD151-00.0-02.0
Sample Depth:		6-7.8	0-2	2-4	4-4.4	0-2	2-4	2-4	4-6	6-8	8-10	0-0.7	0-2	0-1.7	0-2	2-4	4-6	6-8.2	0-2
Sample Date:		4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/7/2010	3/22/2010	4/8/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,3,4,6-tetrachlorophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,4,5-trichlorophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,4,6-trichlorophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,4-dichlorophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,4-dimethylphenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,4-dinitrophenol	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
2,4-dinitrotoluene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2,6-dinitrotoluene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2-chloronaphthalene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2-chlorophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2-methylnaphthalene	ug/kg	**470,000**	**24,000**	**980,000**	**2,100,000**	**3,300 J**	**34,000**	**2,100 J**	**3,700 J**	**19,000**	**46,000**	**130,000**	**13,000**	**2,700 J**	**150 J**	**260 J**	**740 J**	**57,000**	**420**
2-methylphenol (o-cresol)	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
2-nitroaniline	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
2-nitrophenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
3,3'-dichlorobenzidine	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
3-nitroaniline	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
4,6-dinitro-2-methylphenol	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
4-bromophenyl phenyl ether	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
4-chloro-3-methylphenol	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
4-chloroaniline	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
4-chlorophenyl phenyl ether	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
4-methylphenol (p-cresol)	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	**1,300 J**	8,800 U	**380 J**	**530 J**	**770 J**	18,000 U	8,800 U	5,600 U	**30 J**	1,600 U	2,100 U	29,000 U	**18 J**
4-nitroaniline	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
4-nitrophenol	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 U	36,000 U	18,000 U	18,000 U	30,000 U	48,000 U	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
Acenaphthene	ug/kg	**680,000**	**17,000**	**470,000**	**1,100,000**	**11,000**	**36,000**	**4,900 J**	**4,500 J**	**11,000 J**	**27,000**	**53,000**	**8,400 J**	**7,500**	**390 J**	**1,300 J**	**1,900 J**	**89,000**	**430**
Acenaphthylene	ug/kg	**20,000 J**	**3,300 J**	**43,000 J**	**70,000 J**	**2,400 J**	**5,800 J**	**2,500 J**	**2,200 J**	**7,200 J**	**9,000 J**	**15,000 J**	**1,900 J**	**440 J**	**780**	**410 J**	**470 J**	**9,200 J**	**120 J**
Acetophenone	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	**2,200 J**	8,900 U	15,000 U	24,000 U	**4,100 J**	**990 J**	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Anthracene	ug/kg	**170,000 J**	**13,000 J**	**230,000**	**540,000**	**6,400 J**	**32,000**	**7,800 J**	**8,400 J**	**25,000**	**45,000**	**39,000**	**6,300 J**	**5,200 J**	**880 J**	**1,200 J**	**1,500 J**	**67,000**	**440**
Atrazine	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Benzaldehyde	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Benzo(a)anthracene	ug/kg	**160,000 J**	**11,000**	**130,000 J**	**190,000 J**	**8,400 J**	**23,000**	**17,000**	**7,500 J**	**28,000**	**37,000**	**44,000**	**7,800 J**	**2,000 J**	**2,700**	**1,400 J**	**1,300 J**	**52,000 J**	**540**
Benzo(a)pyrene	ug/kg	**53,000 J**	**12,000**	**110,000 J**	**170,000 J**	**8,100 J**	**19,000**	**13,000**	**9,300**	**23,000**	**37,000**	**22,000**	**5,500 J**	**1,800 J**	**2,700**	1,600 U	2,100 U	29,000 U	**620**
Benzo(b)fluoranthene	ug/kg	**80,000 J**	**5,600 J**	**45,000 J**	**69,000 J**	**3,500 J**	**10,000 J**	**7,000 J**	**3,800 J**	**12,000 J**	**19,000 J**	**24,000**	**4,000 J**	**940 J**	**1,300**	1,600 U	2,100 U	29,000 U	**360**
Benzo(g,h,i)perylene	ug/kg	210,000 U	**4,900 J**	**51,000 J**	**73,000 J**	**3,600 J**	**8,000 J**	**4,200 J**	**3,100 J**	**8,400 J**	**14,000 J**	**16,000 J**	**3,100 J**	**1,100 J**	**740 J**	**720 J**	**510 J**	29,000 UJ	**260**
Benzo(k)fluoranthene	ug/kg	**26,000 J**	**8,300**	**47,000 J**	**120,000 J**	**5,600 J**	**14,000 J**	**9,300**	**6,900 J**	**15,000 J**	**26,000**	**17,000 J**	**4,600 J**	**1,200 J**	**1,500**	1,600 U	2,100 U	29,000 U	**440**
Benzyl butyl phthalate	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD133	GC-SD134	GC-SD134	GC-SD134	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD122	GC-SD136	GC-SD138	GC-SD150	GC-SD150	GC-SD150	GC-SD150	GC-SD151
Sample Number:		GC-SD133-06.0-07.8	GC-SD134-00.0-02.0	GC-SD134-02.0-04.0	GC-SD134-04.0-04.4	GC-SD135-00.0-02.0	GC-SD135-02.0-04.0	D-04062010-01	GC-SD135-04.0-06.0	GC-SD135-06.0-08.0	GC-SD135-08.0-10.0	GC-SD122-00.0-00.7	GC-SD136-00.0-02.0	GC-SD138-00.0-01.7	GC-SD150-00.0-02.0	GC-SD150-02.0-04.0	GC-SD150-04.0-06.0	GC-SD150-06.0-08.2	GC-SD151-00.0-02.0
Sample Depth:		6-7.8	0-2	2-4	4-4.4	0-2	2-4	2-4	4-6	6-8	8-10	0-0.7	0-2	0-1.7	0-2	2-4	4-6	6-8.2	0-2
Sample Date:		4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/7/2010	3/22/2010	4/8/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**120,000 J**	**3,100 J**	**100,000 J**	**210,000 J**	**2,000 J**	**6,000 J**	**380 J**	**820 J**	**3,200 J**	**7,200 J**	**12,000 J**	**860 J**	**950 J**	**35 J**	1,600 U	2,100 U	**13,000 J**	**64 J**
Bis(2-chloroethoxy) methane	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Bis(2-chloroethyl) ether	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Bis(2-chloroisopropyl) ether	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Bis(2-ethylhexyl) phthalate	ug/kg	**24,000 J**	**21,000**	**13,000 J**	220,000 U	**9,900**	**24,000**	**52,000**	**37,000**	**75,000**	**73,000**	**56,000**	**2,900 J**	**3,800 J**	440 U	1,600 U	**16,000**	29,000 U	480 U
Caprolactam	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Carbazole	ug/kg	**57,000 J**	**630 J**	**12,000 J**	**20,000 J**	**690 J**	**2,500 J**	8,800 U	8,900 U	**900 J**	24,000 U	**1,900 J**	**360 J**	**1,100 J**	**40 J**	1,600 U	2,100 U	**3,100 J**	**26 J**
Chrysene	ug/kg	**110,000 J**	**16,000**	**140,000 J**	**200,000 J**	**9,700**	**27,000**	**20,000**	**13,000**	**39,000**	**63,000**	**42,000**	**8,800**	**1,900 J**	**3,100**	**2,000 J**	**2,200 J**	**64,000 J**	**670 J**
Dibenz(a,h)anthracene	ug/kg	210,000 U	**1,500 J**	140,000 U	**22,000 J**	**1,200 J**	**2,000 J**	**980 J**	8,900 U	**2,500 J**	24,000 U	**14,000 J**	8,800 U	5,600 U	**340 J**	**220 J**	2,100 U	**4,000 J**	**75 J**
Dibenzofuran	ug/kg	**430,000**	**1,500 J**	**33,000 J**	**60,000 J**	**1,500 J**	**6,200 J**	8,800 U	**550 J**	15,000 U	**4,700 J**	**5,600 J**	**710 J**	**4,000 J**	**63 J**	**410 J**	**330 J**	**15,000 J**	**48 J**
Diethyl phthalate	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Dimethyl phthalate	ug/kg	210,000 U	**9,200**	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Di-n-butyl phthalate	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Di-n-octylphthalate	ug/kg	210,000 U	**3,600 J**	140,000 U	220,000 U	9,000 U	18,000 U	**7,200 J**	**4,600 J**	**13,000 J**	24,000 U	**8,600 J**	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Fluoranthene	ug/kg	**710,000**	**27,000**	**240,000**	**390,000**	**20,000**	**52,000**	**46,000**	**15,000**	**46,000**	**71,000**	**58,000**	**14,000**	**12,000**	**6,100**	**4,700 J**	**2,900 J**	**130,000 J**	**1,000**
Fluorene	ug/kg	**520,000**	**7,200 J**	**190,000**	**430,000**	**4,600 J**	**24,000**	**710 J**	**2,500 J**	**14,000 J**	**24,000**	**42,000**	**3,800 J**	**5,500 J**	**170 J**	**420 J**	**740 J**	**40,000**	**210 J**
Hexachlorobenzene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Hexachlorobutadiene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Hexachlorocyclopentadiene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Hexachloroethane	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**38,000 J**	**3,900 J**	**40,000 J**	**58,000 J**	**3,300 J**	**5,700 J**	**3,400 J**	**2,500 J**	**6,300 J**	**12,000 J**	**20,000**	**2,800 J**	**860 J**	**650**	**580 J**	**390 J**	**7,300 J**	**220 J**
Isophorone	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Naphthalene	ug/kg	**900,000**	**27,000**	**1,400,000**	**3,400,000**	**11,000**	**59,000**	8,800 U	**5,100 J**	**16,000**	**60,000**	**170,000**	**18,000**	5,600 U	440 U	1,600 U	2,100 U	**300,000**	**570**
Nitrobenzene	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
N-nitrosodi-n-propylamine	ug/kg	210,000 U	7,200 U	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	8,900 U	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
N-nitrosodiphenylamine	ug/kg	210,000 U	**3,600 J**	140,000 U	220,000 U	9,000 U	18,000 U	8,800 U	**14,000**	**35,000**	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	250 U
Pentachlorophenol	ug/kg	420,000 U	14,000 U	290,000 U	450,000 U	18,000 UJ	36,000 U	18,000 UJ	18,000 UJ	30,000 U	48,000 UJ	36,000 U	18,000 U	11,000 U	850 U	3,100 U	4,000 U	58,000 U	490 U
Phenanthrene	ug/kg	**1,400,000 J**	**37,000 J**	**990,000**	**1,900,000**	**16,000**	**160,000**	**5,700 J**	**17,000 J**	**98,000**	**210,000**	**120,000**	**13,000**	**19,000**	**1,500 J**	**2,600**	**4,800**	**320,000**	**1,200**
Phenol	ug/kg	210,000 U	**290 J**	140,000 U	220,000 U	**360 J**	18,000 U	**440 J**	**410 J**	15,000 U	24,000 U	18,000 U	8,800 U	5,600 U	440 U	1,600 U	2,100 U	29,000 U	**18 J**
Pyrene	ug/kg	**540,000**	**50,000**	**380,000**	**680,000**	**38,000 J**	**80,000**	**51,000 J**	**28,000 J**	**72,000**	**130,000 J**	**70,000 J**	**20,000**	**11,000**	**5,300**	**3,600 J**	**2,500 J**	**110,000 J**	**1,300 J**
Total PAHs	ug/kg	**5,877,000**	**268,700**	**5,486,000**	**11,512,000**	**156,100**	**591,500**	**195,590**	**132,500**	**442,400**	**830,000**	**896,000**	**135,000**	**73,140**	**28,300**	**19,410**	**19,950**	**1,249,500**	**8,875**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD151	GC-SD151	GC-SD123	GC-SD123	GC-SD123	GC-SD123	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD140	GC-SD140	GC-SD140	GC-SD141
Sample Number:		GC-SD151-02.0-04.0	GC-SD151-04.0-04.8	GC-SD123-00.0-02.0	GC-SD123-02.0-04.0	GC-SD123-04.0-06.0	GC-SD123-06.0-06.8	GC-SD139-00.0-02.0	GC-SD139-02.0-04.0	GC-SD139-04.0-06.0	GC-SD139-06.0-08.0	GC-SD139-08.0-10.0	GC-SD139-10.0-12.0	D-04132010-01	GC-SD139-12.0-12.8	GC-SD140-00.0-02.0	GC-SD140-02.0-04.0	GC-SD140-04.0-06.0	GC-SD141-00.0-02.0
Sample Depth:		2-4	4-4.8	0-2	2-4	4-6	6-6.8	0-2	2-4	4-6	6-8	8-10	10-12	10-12	12-12.8	0-2	2-4	4-6	0-2
Sample Date:		4/12/2010	4/12/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010	4/14/2010	4/14/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,3,4,6-tetrachlorophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,4,5-trichlorophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,4,6-trichlorophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,4-dichlorophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,4-dimethylphenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,4-dinitrophenol	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
2,4-dinitrotoluene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2,6-dinitrotoluene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2-chloronaphthalene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2-chlorophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2-methylnaphthalene	ug/kg	**610**	**200 J**	**790 J**	**3,900 J**	**14,000**	**12,000**	230 U	**37,000**	**51,000**	**250,000**	**1,400,000**	**1,700,000**	**2,100,000**	**820,000**	**4,500 J**	**88 J**	**15,000**	**72 J**
2-methylphenol (o-cresol)	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
2-nitroaniline	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
2-nitrophenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
3,3'-dichlorobenzidine	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
3-nitroaniline	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
4,6-dinitro-2-methylphenol	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
4-bromophenyl phenyl ether	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
4-chloro-3-methylphenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
4-chloroaniline	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
4-chlorophenyl phenyl ether	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
4-methylphenol (p-cresol)	ug/kg	**13 J**	670 U	13,000 U	15,000 U	**400 J**	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	**27 J**
4-nitroaniline	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
4-nitrophenol	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
Acenaphthene	ug/kg	**590**	**790**	**1,200 J**	**8,400 J**	**8,800 J**	**9,500 J**	**6.9 J**	**38,000**	**32,000**	**100,000 J**	**600,000**	**490,000**	**420,000**	**340,000**	**7,000 J**	**130 J**	**7,600 J**	**120 J**
Acenaphthylene	ug/kg	**98 J**	**130 J**	**550 J**	**1,300 J**	**2,300 J**	**3,700 J**	**40 J**	**7,200 J**	**7,500 J**	**21,000 J**	**99,000 J**	**280,000**	**460,000**	**66,000 J**	**1,400 J**	**76 J**	**2,200 J**	**120 J**
Acetophenone	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Anthracene	ug/kg	**490**	**1,500**	**1,500 J**	**6,900 J**	**10,000 J**	**13,000**	**33 J**	**31,000**	**28,000**	**78,000 J**	**320,000**	**330,000**	**340,000**	**180,000**	**5,400 J**	**140 J**	**9,000 J**	**250 J**
Atrazine	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Benzaldehyde	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Benzo(a)anthracene	ug/kg	**510**	**2,100**	**2,200 J**	**5,900 J**	**9,000 J**	**15,000**	**170 J**	**32,000**	**27,000**	**65,000 J**	**220,000 J**	**260,000**	**240,000 J**	**130,000 J**	**7,800 J**	**190 J**	**11,000 J**	**610**
Benzo(a)pyrene	ug/kg	**590**	**1,800**	**2,400 J**	**5,700 J**	**5,600 J**	**13,000**	230 U	**23,000**	**21,000**	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	**580**
Benzo(b)fluoranthene	ug/kg	**290**	**1,600**	**1,400 J**	**2,300 J**	**2,700 J**	**6,400 J**	230 U	**23,000**	**17,000**	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Benzo(g,h,i)perylene	ug/kg	**250**	**670 J**	**1,700 J**	**2,900 J**	**2,000 J**	**4,700 J**	**97 J**	**12,000 J**	**13,000 J**	**32,000 J**	**83,000 J**	**97,000 J**	**88,000 J**	**62,000 J**	**3,000 J**	**190 J**	**3,900 J**	**160 J**
Benzo(k)fluoranthene	ug/kg	**360**	**1,200**	**1,300 J**	**3,100 J**	**3,500 J**	**7,400 J**	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Benzyl butyl phthalate	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD151	GC-SD151	GC-SD123	GC-SD123	GC-SD123	GC-SD123	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD140	GC-SD140	GC-SD140	GC-SD141
Sample Number:		GC-SD151-02.0-04.0	GC-SD151-04.0-04.8	GC-SD123-00.0-02.0	GC-SD123-02.0-04.0	GC-SD123-04.0-06.0	GC-SD123-06.0-06.8	GC-SD139-00.0-02.0	GC-SD139-02.0-04.0	GC-SD139-04.0-06.0	GC-SD139-06.0-08.0	GC-SD139-08.0-10.0	GC-SD139-10.0-12.0	D-04132010-01	GC-SD139-12.0-12.8	GC-SD140-00.0-02.0	GC-SD140-02.0-04.0	GC-SD140-04.0-06.0	GC-SD141-00.0-02.0
Sample Depth:		2-4	4-4.8	0-2	2-4	4-6	6-6.8	0-2	2-4	4-6	6-8	8-10	10-12	10-12	12-12.8	0-2	2-4	4-6	0-2
Sample Date:		4/12/2010	4/12/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010	4/14/2010	4/14/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**75 J**	**94 J**	13,000 U	**1,300 J**	**2,100 J**	**2,200 J**	230 U	**5,900 J**	**6,900 J**	**22,000 J**	**120,000 J**	**150,000 J**	**180,000 J**	**79,000 J**	**1,100 J**	**23 J**	**1,900 J**	**25 J**
Bis(2-chloroethoxy) methane	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Bis(2-chloroethyl) ether	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Bis(2-chloroisopropyl) ether	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Bis(2-ethylhexyl) phthalate	ug/kg	350 U	1,400 U	**4,100 J**	**28,000**	**46,000**	**22,000**	230 U	22,000 U	26,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	**2,200**	40,000 U	**3,800**
Caprolactam	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Carbazole	ug/kg	**38 J**	**240 J**	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	**9,400 J**	**22,000 J**	**22,000 J**	**11,000 J**	9,300 U	430 U	12,000 U	380 U
Chrysene	ug/kg	**670 J**	**2,100 J**	**2,700 J**	**7,300 J**	**12,000 J**	**21,000**	**160 J**	**37,000**	**31,000**	**76,000 J**	**230,000**	**280,000**	**320,000**	**130,000**	**6,800 J**	**330 J**	**9,900 J**	**700 J**
Dibenz(a,h)anthracene	ug/kg	**74 J**	**220 J**	13,000 U	**1,000 J**	13,000 U	**2,200 J**	230 U	**3,800 J**	**3,000 J**	130,000 U	**35,000 J**	180,000 U	250,000 U	130,000 U	**1,200 J**	**110 J**	**1,000 J**	**38 J**
Dibenzofuran	ug/kg	**100 J**	**330 J**	13,000 U	**820 J**	13,000 U	**1,700 J**	230 U	**4,200 J**	**5,100 J**	**12,000 J**	**58,000 J**	**54,000 J**	**64,000 J**	**48,000 J**	**1,000 J**	430 U	**1,400 J**	380 U
Diethyl phthalate	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Dimethyl phthalate	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Di-n-butyl phthalate	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Di-n-octylphthalate	ug/kg	250 U	670 U	13,000 U	15,000 U	**1,300 J**	**710 J**	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Fluoranthene	ug/kg	**1,500**	**9,700**	**4,900 J**	**13,000 J**	**16,000**	**29,000**	**390**	**50,000**	**38,000**	**91,000 J**	**330,000**	**370,000**	**380,000**	**210,000**	**11,000**	**330 J**	**16,000**	**1,300**
Fluorene	ug/kg	**280**	**520 J**	13,000 U	**3,700 J**	**6,000 J**	**7,700 J**	230 U	**19,000**	**24,000**	**88,000 J**	**440,000**	**460,000**	**520,000**	**230,000**	**4,200 J**	**55 J**	**7,400 J**	**56 J**
Hexachlorobenzene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 UJ	16,000 UJ	130,000 UJ	220,000 UJ	180,000 UJ	250,000 UJ	130,000 UJ	9,300 U	430 U	12,000 U	380 U
Hexachlorobutadiene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Hexachlorocyclopentadiene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Hexachloroethane	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**180 J**	**660 J**	**1,300 J**	**2,200 J**	**1,500 J**	**4,200 J**	**72 J**	**12,000 J**	**12,000 J**	**29,000 J**	**89,000 J**	**74,000 J**	**63,000 J**	**47,000 J**	**3,000 J**	**120 J**	**3,000 J**	**120 J**
Isophorone	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Naphthalene	ug/kg	**750**	**810**	13,000 U	15,000 U	**14,000**	**24,000**	230 U	**85,000**	**140,000**	**650,000**	**3,200,000**	**2,600,000**	**2,800,000**	**1,300,000**	**9,400**	430 U	**16,000**	380 U
Nitrobenzene	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
N-nitrosodi-n-propylamine	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
N-nitrosodiphenylamine	ug/kg	250 U	670 U	13,000 U	**6,500 J**	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Pentachlorophenol	ug/kg	480 U	1,300 U	26,000 U	30,000 U	26,000 U	20,000 U	450 U	32,000 U	32,000 U	250,000 U	450,000 U	350,000 U	510,000 U	250,000 U	19,000 U	830 U	24,000 U	730 U
Phenanthrene	ug/kg	**2,000**	**7,500**	**2,000 J**	**12,000 J**	**32,000**	**58,000**	**28 J**	**76,000**	**87,000**	**270,000**	**990,000**	**1,200,000**	**1,300,000**	**600,000**	**15,000**	**300 J**	**26,000**	**460 J**
Phenol	ug/kg	250 U	670 U	13,000 U	15,000 U	13,000 U	9,900 U	230 U	16,000 U	16,000 U	130,000 U	220,000 U	180,000 U	250,000 U	130,000 U	9,300 U	430 U	12,000 U	380 U
Pyrene	ug/kg	**1,900 J**	**6,200 J**	**6,100 J**	**17,000**	**28,000**	**43,000**	**640**	**73,000**	**62,000**	**160,000**	**530,000**	**570,000**	**630,000**	**340,000**	**18,000**	**370 J**	**25,000**	**1,300 J**
Total PAHs	ug/kg	**11,142**	**37,700**	**30,040**	**96,600**	**167,400**	**273,800**	**1,637**	**559,000**	**593,500**	**1,910,000**	**8,566,000**	**8,711,000**	**9,661,000**	**4,455,000**	**97,700**	**2,429**	**153,000**	**5,886**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD141	GC-SD141	GC-SD142	GC-SD142	GC-SD143	GC-SD143	GC-SD144C	GC-SD144C	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-2	ERT1-2	ERT1-2	ERT1-2
Sample Number:		GC-SD141-02.0-04.0	GC-SD141-04.0-05.7	GC-SD142-00.0-02.0	GC-SD142-02.0-03.8	GC-SD143-00.0-02.0	GC-SD143-02.0-02.9	GC-SD144C-00.0-02.0	GC-SD144C-02.0-03.3	ERT1-1-A	ERT1-1-B	ERT1-1-C	ERT1-1-D	ERT1-1-E	ERT1-1-F	ERT1-2-A	ERT1-2-B	ERT1-2-C	ERT1-2-D
Sample Depth:		2-4	4-5.7	0-2	2-3.8	0-2	2-2.9	0-2	2-3.3	0-0.5	0.5-1	1-2	2-3	3-4	4-5.4	0-0.5	0.5-1	1-2	2-3
Sample Date:		4/12/2010	4/12/2010	4/15/2010	4/15/2010	4/14/2010	4/14/2010	4/13/2010	4/13/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,3,4,6-tetrachlorophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,4,5-trichlorophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,4,6-trichlorophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,4-dichlorophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,4-dimethylphenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,4-dinitrophenol	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
2,4-dinitrotoluene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2,6-dinitrotoluene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2-chloronaphthalene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2-chlorophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2-methylnaphthalene	ug/kg	**260 J**	**31,000**	**62 J**	**39 J**	**47 J**	**28 J**	**350,000**	**650,000**	**3,100 J**	**1,300,000 J**	**150,000 J**	**22,000**	**20,000**	**7,200**	**1,600 J**	**1,900**	**310 J**	**2,800 J**
2-methylphenol (o-cresol)	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
2-nitroaniline	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
2-nitrophenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
3,3'-dichlorobenzidine	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
3-nitroaniline	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
4,6-dinitro-2-methylphenol	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
4-bromophenyl phenyl ether	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
4-chloro-3-methylphenol	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
4-chloroaniline	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	**1,300 J**	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
4-chlorophenyl phenyl ether	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
4-methylphenol (p-cresol)	ug/kg	**39 J**	8,700 U	760 U	570 U	**25 J**	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
4-nitroaniline	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
4-nitrophenol	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
Acenaphthene	ug/kg	**740**	**19,000**	**270 J**	**200 J**	**130 J**	**88 J**	**170,000**	**270,000**	**8,800**	**1,100,000 J**	**150,000 J**	**23,000**	**17,000**	**12,000**	**12,000**	**4,800**	**1,100**	**3,400**
Acenaphthylene	ug/kg	**370**	**3,800 J**	**200 J**	**91 J**	**100 J**	**64 J**	**37,000 J**	**34,000 J**	**1,800 J**	**74,000 J**	**18,000 J**	**3,300 J**	**3,500 J**	**1,200 J**	**3,000 J**	**790 J**	**190 J**	**550 J**
Acetophenone	ug/kg	340 U	8,700 U	760 U	570 U	**59 J**	**74 J**	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Anthracene	ug/kg	**1,300**	**15,000**	**320 J**	**260 J**	**220 J**	**100 J**	**97,000**	**120,000**	**6,200**	**800,000 J**	**120,000 J**	**20,000**	**17,000**	**12,000**	**12,000**	**4,200**	**1,000 J**	**3,700**
Atrazine	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Benzaldehyde	ug/kg	340 U	8,700 U	760 U	570 U	**100 J**	**120 J**	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Benzo(a)anthracene	ug/kg	**1,800**	**12,000**	**730 J**	**650**	**550**	**250 J**	**75,000**	**100,000**	**6,500**	**390,000 J**	**79,000 J**	**16,000**	**17,000**	**14,000**	**15,000**	**4,800**	**1,600**	**7,900**
Benzo(a)pyrene	ug/kg	**1,600**	**10,000**	760 U	570 U	**560**	**250 J**	**46,000**	73,000 U	**5,800**	**280,000 J**	**64,000 J**	**12,000**	**13,000**	**12,000**	**12,000**	**3,700**	**1,200**	**6,400**
Benzo(b)fluoranthene	ug/kg	**820**	8,700 U	760 U	570 U	**280 J**	**180 J**	41,000 U	73,000 U	**3,800**	**170,000 J**	**30,000 J**	**8,800**	**9,200**	**10,000**	**8,000**	**3,000**	**1,100 J**	**7,400**
Benzo(g,h,i)perylene	ug/kg	**540**	**4,500 J**	**390 J**	**140 J**	**140 J**	**72 J**	**20,000 J**	**34,000 J**	**2,600 J**	**85,000 J**	**22,000 J**	**4,900**	**4,700**	**4,900**	**5,000**	**1,800**	**660 J**	**3,200**
Benzo(k)fluoranthene	ug/kg	**910**	8,700 U	760 U	570 U	**420 J**	**170 J**	41,000 U	73,000 U	**4,900**	**140,000 J**	**45,000 J**	**8,700**	**9,600**	**11,000 J**	**8,800**	**2,300**	**1,200**	**7,100**
Benzyl butyl phthalate	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	**3,100 J**	**1,100 J**	2,900 U	**1,000 J**	**820 J**	1,100 U	**680 J**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD141	GC-SD141	GC-SD142	GC-SD142	GC-SD143	GC-SD143	GC-SD144C	GC-SD144C	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-2	ERT1-2	ERT1-2	ERT1-2
Sample Number:		GC-SD141-02.0-04.0	GC-SD141-04.0-05.7	GC-SD142-00.0-02.0	GC-SD142-02.0-03.8	GC-SD143-00.0-02.0	GC-SD143-02.0-02.9	GC-SD144C-00.0-02.0	GC-SD144C-02.0-03.3	ERT1-1-A	ERT1-1-B	ERT1-1-C	ERT1-1-D	ERT1-1-E	ERT1-1-F	ERT1-2-A	ERT1-2-B	ERT1-2-C	ERT1-2-D
Sample Depth:		2-4	4-5.7	0-2	2-3.8	0-2	2-2.9	0-2	2-3.3	0-0.5	0.5-1	1-2	2-3	3-4	4-5.4	0-0.5	0.5-1	1-2	2-3
Sample Date:		4/12/2010	4/12/2010	4/15/2010	4/15/2010	4/14/2010	4/14/2010	4/13/2010	4/13/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**49 J**	**4,500 J**	760 U	570 U	**16 J**	420 U	**41,000**	**57,000 J**	3,400 U	**150,000 J**	26,000 UJ	4,100 U	4,500 U	**480 J**	3,200 U	1,200 U	1,100 U	2,900 U
Bis(2-chloroethoxy) methane	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Bis(2-chloroethyl) ether	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Bis(2-chloroisopropyl) ether	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Bis(2-ethylhexyl) phthalate	ug/kg	**4,400**	8,700 U	1,300 U	1,800 U	**2,500**	420 U	41,000 U	73,000 U	**16,000**	**120,000 J**	**120,000 J**	**66,000 J**	**92,000 J**	**11,000**	**37,000**	**26,000 J**	**9,700**	**24,000**
Caprolactam	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Carbazole	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	**3,400 J**	**5,400 J**	3,400 U	**8,900 J**	26,000 UJ	**1,400 J**	**1,200 J**	**2,800 J**	**1,200 J**	**350 J**	1,100 U	**1,800 J**
Chrysene	ug/kg	**2,400 J**	**12,000 J**	**1,000 J**	**720**	**750 J**	**320 J**	**87,000**	**110,000**	**7,100**	**360,000 J**	**89,000 J**	**17,000**	**17,000**	**16,000**	**14,000**	**4,800**	**1,700**	**9,500**
Dibenz(a,h)anthracene	ug/kg	**180 J**	**1,500 J**	**210 J**	**53 J**	**58 J**	420 U	**6,600 J**	**12,000 J**	**840 J**	**25,000 J**	**6,500 J**	**1,900 J**	**1,800 J**	**1,800 J**	**1,900 J**	**620 J**	1,100 UJ	**1,300 J**
Dibenzofuran	ug/kg	**100 J**	**2,100 J**	**36 J**	**35 J**	420 U	420 U	**17,000 J**	**24,000 J**	3,400 U	**51,000 J**	**12,000 J**	4,100 U	4,500 U	**3,200**	3,200 U	1,200 U	1,100 U	2,900 U
Diethyl phthalate	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Dimethyl phthalate	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Di-n-butyl phthalate	ug/kg	340 U	8,700 U	760 U	570 U	**40 J**	**21 J**	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	**1,700 J**	1,200 U	1,100 U	2,900 U
Di-n-octylphthalate	ug/kg	340 U	8,700 U	760 U	570 U	420 U	**130 J**	41,000 U	73,000 U	**1,100 J**	**6,700 J**	26,000 UJ	**35,000**	**23,000**	**1,400 J**	3,200 U	**6,300**	**2,500**	**2,200 J**
Fluoranthene	ug/kg	**3,300**	**20,000**	**2,900 J**	**1,900**	**860**	**380 J**	**120,000**	**140,000**	**13,000**	**650,000 J**	**160,000 J**	**29,000**	**31,000**	**36,000**	**23,000**	**7,600**	**3,600**	**19,000**
Fluorene	ug/kg	**160 J**	**11,000**	**84 J**	**110 J**	**47 J**	**34 J**	**130,000**	**160,000**	**4,300**	**530,000 J**	**86,000 J**	**15,000**	**13,000**	**8,800**	**4,200**	**2,400**	**420 J**	**2,300 J**
Hexachlorobenzene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 UJ	73,000 UJ	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Hexachlorobutadiene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Hexachlorocyclopentadiene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Hexachloroethane	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**440**	**3,600 J**	**330 J**	**100 J**	**120 J**	**61 J**	**23,000 J**	**29,000 J**	**3,100 J**	**85,000 J**	**23,000 J**	**5,900**	**6,000**	**6,100**	**6,300 J**	**2,000 J**	**820 J**	**4,500 J**
Isophorone	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Naphthalene	ug/kg	**540**	**54,000**	760 U	570 U	**76 J**	**56 J**	**510,000**	**810,000**	**26,000**	**1,800,000 J**	**27,000 J**	**7,900**	**2,800 J**	**2,500 J**	**3,300**	**3,400**	**610 J**	**4,700**
Nitrobenzene	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
N-nitrosodi-n-propylamine	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
N-nitrosodiphenylamine	ug/kg	340 U	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	**3,700 J**	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Pentachlorophenol	ug/kg	660 U	17,000 U	1,500 U	1,100 U	820 U	820 U	81,000 U	150,000 U	6,600 U	50,000 UJ	53,000 UJ	8,000 U	8,700 U	5,700 U	6,200 U	2,400 U	2,100 U	5,700 U
Phenanthrene	ug/kg	**1,100**	**68,000**	**950**	**550 J**	**190 J**	**140 J**	**360,000**	**450,000**	**18,000**	**2,500,000 J**	**570,000 J**	**55,000 J**	**58,000**	**46,000**	**31,000**	**13,000**	**3,400**	**25,000**
Phenol	ug/kg	**23 J**	8,700 U	760 U	570 U	420 U	420 U	41,000 U	73,000 U	3,400 U	25,000 UJ	26,000 UJ	4,100 U	4,500 U	2,900 U	3,200 U	1,200 U	1,100 U	2,900 U
Pyrene	ug/kg	**4,400 J**	**35,000 J**	**2,000 J**	**1,900**	**1,200 J**	**550 J**	**190,000**	**250,000**	**16,000**	**1,200,000 J**	**250,000 J**	**52,000**	**53,000**	**37,000**	**39,000 J**	**14,000**	**4,000**	**22,000 J**
Total PAHs	ug/kg	**20,860**	**300,400**	**9,446**	**6,713**	**5,748**	**2,743**	**2,221,600**	**3,169,000**	**131,840**	**11,489,000**	**1,889,500**	**302,400**	**293,600**	**238,500**	**200,100**	**75,110**	**22,910**	**130,750**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1
Sample Number:		ERT1-2-E	ERT1-2-F	ERT1-2-G	ERT1-2-H	ERT1-3-A	ERT1-3-B	ERT1-3-C	ERT1-3-D	ERT1-3-E	ERT1-3-F	ERT1-3-G	ERT1-3-H	ERT1-3-I	ERT2-1-A	ERT2-1-B	ERT2-1-C	ERT2-1-D	ERT2-1-E
Sample Depth:		3-4	4-5	5-6	6-6.8	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	7-7.7	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,3,4,6-tetrachlorophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,4,5-trichlorophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,4,6-trichlorophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,4-dichlorophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,4-dimethylphenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,4-dinitrophenol	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
2,4-dinitrotoluene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2,6-dinitrotoluene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2-chloronaphthalene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2-chlorophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2-methylnaphthalene	ug/kg	**3,700**	**15,000 J**	**23,000 J**	**21,000 J**	**16,000 J**	**16,000 J**	**32,000 J**	**63,000 J**	**76,000 J**	**23,000 J**	**26,000 J**	**43,000 J**	**19,000 J**	**27,000 J**	**56,000 J**	**130,000 J**	**620,000 J**	**290,000 J**
2-methylphenol (o-cresol)	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
2-nitroaniline	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
2-nitrophenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
3,3'-dichlorobenzidine	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
3-nitroaniline	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
4,6-dinitro-2-methylphenol	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
4-bromophenyl phenyl ether	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
4-chloro-3-methylphenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
4-chloroaniline	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	**5,700 J**	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
4-chlorophenyl phenyl ether	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
4-methylphenol (p-cresol)	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
4-nitroaniline	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
4-nitrophenol	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
Acenaphthene	ug/kg	**3,200**	**18,000 J**	**67,000 J**	**34,000 J**	**20,000 J**	**16,000 J**	**33,000 J**	**49,000 J**	**84,000 J**	**23,000 J**	**24,000 J**	**35,000 J**	**20,000 J**	**220,000 J**	**110,000 J**	**110,000 J**	**350,000 J**	**170,000 J**
Acenaphthylene	ug/kg	**670 J**	18,000 UJ	16,000 UJ	14,000 UJ	**2,700 J**	**2,100 J**	**4,500 J**	**6,000 J**	**9,900 J**	**3,400 J**	**3,400 J**	**3,300 J**	**930 J**	**49,000 J**	**10,000 J**	**7,300 J**	**29,000 J**	**10,000 J**
Acetophenone	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Anthracene	ug/kg	**3,800**	**18,000 J**	**140,000 J**	**67,000 J**	**18,000 J**	**15,000 J**	**27,000 J**	**35,000 J**	**66,000 J**	**15,000 J**	**21,000 J**	**31,000 J**	**18,000 J**	**180,000 J**	**81,000 J**	**75,000 J**	**200,000 J**	**98,000 J**
Atrazine	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Benzaldehyde	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Benzo(a)anthracene	ug/kg	**6,800**	**15,000 J**	**220,000 J**	**89,000 J**	**17,000 J**	**15,000 J**	**27,000 J**	**45,000 J**	**51,000 J**	**17,000 J**	**20,000 J**	**42,000 J**	**24,000 J**	**86,000 J**	**36,000 J**	**41,000 J**	**110,000 J**	**62,000 J**
Benzo(a)pyrene	ug/kg	**6,200**	**11,000 J**	**210,000 J**	**87,000 J**	**11,000 J**	**10,000 J**	**18,000 J**	**27,000 J**	**41,000 J**	**11,000 J**	**14,000 J**	**29,000 J**	**21,000 J**	**71,000 J**	**28,000 J**	**33,000 J**	**86,000 J**	**48,000 J**
Benzo(b)fluoranthene	ug/kg	**6,100**	**9,200 J**	**210,000 J**	**81,000 J**	**7,900 J**	**8,100 J**	**12,000 J**	**23,000 J**	**19,000 J**	**8,600 J**	**9,200 J**	**23,000 J**	**18,000 J**	**31,000 J**	**13,000 J**	**14,000 J**	**47,000 J**	**25,000 J**
Benzo(g,h,i)perylene	ug/kg	**3,200**	**5,300 J**	**98,000 J**	**43,000 J**	**3,700 J**	**3,500 J**	**5,200 J**	**7,900 J**	**11,000 J**	**4,700 J**	**5,100 J**	**9,900 J**	**7,600 J**	**24,000 J**	**9,700 J**	**12,000 J**	**32,000 J**	**18,000 J**
Benzo(k)fluoranthene	ug/kg	**5,600**	**8,300 J**	**170,000 J**	**63,000 J**	**9,000 J**	**6,600 J**	**12,000 J**	**15,000 J**	**31,000 J**	**7,800 J**	**11,000 J**	**23,000 J**	**13,000 J**	**41,000 J**	**17,000 J**	**22,000 J**	**45,000 J**	**35,000 J**
Benzyl butyl phthalate	ug/kg	**960 J**	18,000 UJ	16,000 UJ	14,000 UJ	**1,300 J**	**1,400 J**	**1,900 J**	**1,600 J**	27,000 UJ	**1,800 J**	**2,500 J**	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1
Sample Number:		ERT1-2-E	ERT1-2-F	ERT1-2-G	ERT1-2-H	ERT1-3-A	ERT1-3-B	ERT1-3-C	ERT1-3-D	ERT1-3-E	ERT1-3-F	ERT1-3-G	ERT1-3-H	ERT1-3-I	ERT2-1-A	ERT2-1-B	ERT2-1-C	ERT2-1-D	ERT2-1-E
Sample Depth:		3-4	4-5	5-6	6-6.8	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	7-7.7	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	3,000 U	18,000 UJ	**4,800 J**	**2,200 J**	**870 J**	5,200 UJ	**2,300 J**	**3,700 J**	**14,000 J**	**4,000 J**	**2,200 J**	**1,700 J**	**820 J**	**30,000 J**	**21,000 J**	**19,000 J**	**65,000 J**	**25,000 J**
Bis(2-chloroethoxy) methane	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Bis(2-chloroethyl) ether	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Bis(2-chloroisopropyl) ether	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Bis(2-ethylhexyl) phthalate	ug/kg	**31,000**	**79,000 J**	16,000 UJ	14,000 UJ	**130,000 J**	**110,000 J**	**95,000 J**	**100,000 J**	**240,000 J**	**170,000 J**	**120,000 J**	**14,000 J**	**6,300 J**	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	73,000 UJ
Caprolactam	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Carbazole	ug/kg	**1,600 J**	18,000 UJ	**81,000 J**	**21,000 J**	5,200 UJ	5,200 UJ	5,900 UJ	**1,200 J**	27,000 UJ	9,700 UJ	8,700 UJ	**5,100 J**	**5,300 J**	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Chrysene	ug/kg	**7,800**	**16,000 J**	**240,000 J**	**93,000 J**	**16,000 J**	**15,000 J**	**22,000 J**	**34,000 J**	**52,000 J**	**16,000 J**	**19,000 J**	**36,000 J**	**24,000 J**	**82,000 J**	**37,000 J**	**41,000 J**	**110,000 J**	**60,000 J**
Dibenz(a,h)anthracene	ug/kg	**1,200 J**	18,000 UJ	**35,000 J**	**14,000 J**	5,200 UJ	5,200 UJ	**2,200 J**	**2,800 J**	27,000 UJ	9,700 UJ	**2,000 J**	**4,500 J**	**3,000 J**	**6,700 J**	29,000 UJ	**4,100 J**	**9,000 J**	**5,100 J**
Dibenzofuran	ug/kg	3,000 U	**3,900 J**	**60,000 J**	**16,000 J**	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	**5,500 J**	9,700 UJ	8,700 UJ	**7,600 J**	**5,500 J**	**12,000 J**	**5,600 J**	**7,300 J**	**21,000 J**	**12,000 J**
Diethyl phthalate	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Dimethyl phthalate	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Di-n-butyl phthalate	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Di-n-octylphthalate	ug/kg	3,000 U	**6,400 J**	16,000 UJ	14,000 UJ	5,200 UJ	**4,200 J**	5,900 UJ	**9,700 J**	**68,000 J**	**58,000 J**	**30,000 J**	**16,000 J**	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	**5,500 J**
Fluoranthene	ug/kg	**16,000**	**33,000 J**	**6,500,000 J**	**230,000 J**	**40,000 J**	**33,000 J**	**53,000 J**	**55,000 J**	**100,000 J**	**37,000 J**	**53,000 J**	**81,000 J**	**61,000 J**	**160,000 J**	**69,000 J**	**70,000 J**	**200,000 J**	**110,000 J**
Fluorene	ug/kg	**2,700 J**	**11,000 J**	**65,000 J**	**26,000 J**	**14,000 J**	**12,000 J**	**23,000 J**	**34,000 J**	**53,000 J**	**15,000 J**	**15,000 J**	**26,000 J**	**13,000 J**	**87,000 J**	**57,000 J**	**55,000 J**	**160,000 J**	**78,000 J**
Hexachlorobenzene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Hexachlorobutadiene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Hexachlorocyclopentadiene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Hexachloroethane	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Indeno(1,2,3-c,d)pyrene	ug/kg	**4,300 J**	**5,600 J**	**120,000 J**	**47,000 J**	**4,900 J**	**4,300 J**	**6,600 J**	**9,600 J**	**15,000 J**	**4,300 J**	**6,200 J**	**15,000 J**	**10,000 J**	**25,000 J**	**10,000 J**	**13,000 J**	**31,000 J**	**18,000 J**
Isophorone	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Naphthalene	ug/kg	**7,200**	**23,000 J**	**82,000 J**	**59,000 J**	**8,300 J**	**8,800 J**	**21,000 J**	**48,000 J**	**48,000 J**	**20,000 J**	**15,000 J**	**8,800 J**	**8,300 J**	**160,000 J**	**150,000 J**	**240,000 J**	**920,000 J**	**450,000 J**
Nitrobenzene	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
N-nitrosodi-n-propylamine	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
N-nitrosodiphenylamine	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Pentachlorophenol	ug/kg	5,900 U	36,000 UJ	33,000 UJ	29,000 UJ	10,000 UJ	10,000 UJ	11,000 UJ	8,700 UJ	54,000 UJ	19,000 UJ	17,000 UJ	14,000 UJ	8,800 UJ	54,000 UJ	57,000 UJ	54,000 UJ	61,000 UJ	53,000 UJ
Phenanthrene	ug/kg	**19,000**	**59,000 J**	**810,000 J**	**230,000 J**	**70,000 J**	**57,000 J**	**96,000 J**	**190,000 J**	**230,000 J**	**65,000 J**	**79,000 J**	**160,000 J**	**86,000 J**	**550,000 J**	**240,000 J**	**250,000 J**	**660,000 J**	**310,000 J**
Phenol	ug/kg	3,000 U	18,000 UJ	16,000 UJ	14,000 UJ	5,200 UJ	5,200 UJ	5,900 UJ	4,500 UJ	27,000 UJ	9,700 UJ	8,700 UJ	7,200 UJ	4,500 UJ	27,000 UJ	29,000 UJ	27,000 UJ	30,000 UJ	26,000 UJ
Pyrene	ug/kg	**18,000 J**	**42,000 J**	**560,000 J**	**220,000 J**	**42,000 J**	**42,000 J**	**67,000 J**	**110,000 J**	**140,000 J**	**46,000 J**	**52,000 J**	**95,000 J**	**55,000 J**	**260,000 J**	**110,000 J**	**140,000 J**	**350,000 J**	**190,000 J**
Total PAHs	ug/kg	**115,470**	**289,400**	**9,550,000**	**1,404,000**	**300,500**	**264,400**	**461,500**	**754,300**	**1,026,900**	**316,800**	**374,900**	**665,500**	**401,830**	**2,059,700**	**1,033,700**	**1,257,400**	**3,959,000**	**1,977,100**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-3	ERT2-3	ERT2-3	ERT2-3
Sample Number:		ERT2-1-F	FD-02	ERT2-1-G	ERT2-1-H	ERT2-2-A	ERT2-2-B	ERT2-2-C	ERT2-2-D	ERT2-2-E	ERT2-2-F	ERT2-2-G	FD-03	ERT2-2-H	ERT2-2-I	ERT2-3-A	ERT2-3-B	ERT2-3-C	ERT2-3-D
Sample Depth:		4-5	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	5-6	6-7	7-8	0-0.5	0.5-1	1-2	2-3
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	FD	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,3,4,6-tetrachlorophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,4,5-trichlorophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,4,6-trichlorophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,4-dichlorophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,4-dimethylphenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,4-dinitrophenol	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
2,4-dinitrotoluene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2,6-dinitrotoluene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2-chloronaphthalene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2-chlorophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2-methylnaphthalene	ug/kg	**280,000 J**	**290,000 J**	**44,000**	**120,000 J**	**2,100 J**	**14,000**	**71,000**	**100,000**	**200,000 J**	**59,000**	**1,300,000 J**	**2,800,000 J**	**120,000 J**	**630,000 J**	**290 J**	**3,500 J**	**810 J**	**5,500 J**
2-methylphenol (o-cresol)	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
2-nitroaniline	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
2-nitrophenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
3,3'-dichlorobenzidine	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
3-nitroaniline	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
4,6-dinitro-2-methylphenol	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
4-bromophenyl phenyl ether	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
4-chloro-3-methylphenol	ug/kg	24,000 UJ	23,000 UJ	11,000 UJ	23,000 UJ	4,700 UJ	4,600 UJ	13,000 UJ	13,000 UJ	19,000 UJ	6,700 UJ	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
4-chloroaniline	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
4-chlorophenyl phenyl ether	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
4-methylphenol (p-cresol)	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
4-nitroaniline	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
4-nitrophenol	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
Acenaphthene	ug/kg	**200,000 J**	**230,000 J**	**32,000**	**91,000 J**	**14,000**	**17,000**	**57,000**	**85,000**	**110,000 J**	**36,000**	**780,000 J**	**1,700,000 J**	**79,000 J**	**440,000 J**	**3,100 J**	**3,900 J**	**1,800 J**	**6,400 J**
Acenaphthylene	ug/kg	**6,500 J**	**15,000 J**	11,000 U	**6,800 J**	**3,200 J**	**1,400 J**	**3,100 J**	**7,700 J**	**8,000 J**	**1,900 J**	**35,000 J**	**86,000 J**	**5,300 J**	**18,000 J**	**1,200 J**	**580 J**	**650 J**	**820 J**
Acetophenone	ug/kg	24,000 UJ	**4,100 J**	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	**3,500 J**	**3,000 J**	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Anthracene	ug/kg	**93,000 J**	**140,000 J**	**21,000**	**89,000 J**	**13,000**	**16,000**	**41,000**	**58,000**	**71,000 J**	**24,000**	**470,000 J**	**930,000 J**	**59,000 J**	**160,000 J**	**6,300 J**	**3,400 J**	**3,100 J**	**7,300 J**
Atrazine	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Benzaldehyde	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Benzo(a)anthracene	ug/kg	**61,000 J**	**75,000 J**	**17,000**	**60,000 J**	**8,800**	**11,000**	**26,000**	**40,000**	**35,000 J**	**16,000**	**160,000 J**	**370,000 J**	**32,000 J**	**67,000 J**	**7,700 J**	**4,700 J**	**4,000 J**	**5,700 J**
Benzo(a)pyrene	ug/kg	**47,000 J**	**52,000 J**	**12,000**	**47,000 J**	**7,000**	**9,000**	**20,000**	**31,000**	**31,000 J**	**13,000**	**120,000 J**	**270,000 J**	**27,000 J**	**58,000 J**	**5,600 J**	**3,200 J**	**3,500 J**	**4,500 J**
Benzo(b)fluoranthene	ug/kg	**24,000 J**	**31,000 J**	**8,300 J**	**30,000 J**	**3,400 J**	**4,100 J**	**9,400 J**	**15,000**	**19,000 J**	**7,100**	**60,000 J**	**93,000 J**	**14,000 J**	**27,000 J**	**4,200 J**	**2,500 J**	**2,700 J**	**3,600 J**
Benzo(g,h,i)perylene	ug/kg	**17,000 J**	**19,000 J**	**4,600 J**	**15,000 J**	**2,500 J**	**3,300 J**	**7,600 J**	**10,000 J**	**12,000 J**	**4,900 J**	**37,000 J**	**87,000 J**	**11,000 J**	**18,000 J**	**1,600 J**	**980 J**	**1,200 J**	**1,400 J**
Benzo(k)fluoranthene	ug/kg	**37,000 J**	**35,000 J**	**8,500 J**	**33,000 J**	**4,600 J**	**5,800**	**14,000**	**19,000**	**20,000 J**	**9,700**	**67,000 J**	**190,000 J**	**20,000 J**	**33,000 J**	**3,500 J**	**2,300 J**	**2,700 J**	**3,800 J**
Benzyl butyl phthalate	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	**350 J**	**1,300 J**	**650 J**	2,800 UJ

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-3	ERT2-3	ERT2-3	ERT2-3
Sample Number:		ERT2-1-F	FD-02	ERT2-1-G	ERT2-1-H	ERT2-2-A	ERT2-2-B	ERT2-2-C	ERT2-2-D	ERT2-2-E	ERT2-2-F	ERT2-2-G	FD-03	ERT2-2-H	ERT2-2-I	ERT2-3-A	ERT2-3-B	ERT2-3-C	ERT2-3-D
Sample Depth:		4-5	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	5-6	6-7	7-8	0-0.5	0.5-1	1-2	2-3
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	FD	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**16,000 J**	**18,000 J**	**1,900 J**	**3,200 J**	4,700 U	**2,800 J**	**11,000 J**	**14,000**	**5,200 J**	**2,500 J**	**110,000 J**	**280,000 J**	**7,900 J**	**59,000 J**	830 UJ	**520 J**	2,200 UJ	2,800 UJ
Bis(2-chloroethoxy) methane	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Bis(2-chloroethyl) ether	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Bis(2-chloroisopropyl) ether	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Bis(2-ethylhexyl) phthalate	ug/kg	**240,000 J**	**130,000 J**	48,000 U	23,000 UJ	7,400 U	4,600 U	16,000 U	29,000 U	48,000 UJ	**46,000**	**120,000 J**	480,000 UJ	42,000 UJ	12,000 UJ	**11,000 J**	**9,600 J**	**17,000 J**	**22,000 J**
Caprolactam	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Carbazole	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	**5,100 J**	6,700 U	**12,000 J**	480,000 UJ	**3,600 J**	**5,500 J**	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Chrysene	ug/kg	**61,000 J**	**76,000 J**	**17,000**	**59,000 J**	**8,600**	**11,000**	**25,000**	**38,000**	**39,000 J**	**17,000**	**150,000 J**	**370,000 J**	**33,000 J**	**63,000 J**	**6,000 J**	**4,800 J**	**3,800 J**	**6,200 J**
Dibenz(a,h)anthracene	ug/kg	**5,800 J**	**6,100 J**	11,000 U	**4,800 J**	4,700 U	**1,100 J**	13,000 U	**3,700 J**	**4,100 J**	**1,700 J**	**12,000 J**	480,000 UJ	**3,100 J**	**6,200 J**	**630 J**	**420 J**	**510 J**	2,800 UJ
Dibenzofuran	ug/kg	**12,000 J**	**14,000 J**	11,000 U	**6,400 J**	4,700 U	4,600 U	13,000 U	13,000 U	**6,200 J**	6,700 U	**38,000 J**	**79,000 J**	**5,000 J**	**16,000 J**	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Diethyl phthalate	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Dimethyl phthalate	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Di-n-butyl phthalate	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Di-n-octylphthalate	ug/kg	**12,000 J**	**11,000 J**	**3,200 J**	23,000 UJ	4,700 U	4,600 U	13,000 U	**3,300 J**	**3,100 J**	**6,000 J**	**27,000 J**	**130,000 J**	**6,100 J**	12,000 UJ	830 UJ	**650 J**	**700 J**	2,800 UJ
Fluoranthene	ug/kg	**110,000 J**	**130,000 J**	**30,000**	**87,000 J**	**17,000**	**18,000**	**43,000**	**61,000**	**74,000 J**	**26,000**	**310,000 J**	**750,000 J**	**72,000 J**	**150,000 J**	**13,000 J**	**6,800 J**	**8,500 J**	**15,000 J**
Fluorene	ug/kg	**77,000 J**	**120,000 J**	**17,000**	**48,000 J**	**3,900 J**	**10,000**	**34,000**	**47,000**	**51,000 J**	**18,000**	**320,000 J**	**750,000 J**	**37,000 J**	**170,000 J**	**1,200 J**	**3,000 J**	**1,700 J**	2,800 UJ
Hexachlorobenzene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Hexachlorobutadiene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Hexachlorocyclopentadiene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Hexachloroethane	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Indeno(1,2,3-c,d)pyrene	ug/kg	**17,000 J**	**21,000 J**	**5,200 J**	**17,000 J**	**2,800 J**	**3,800 J**	**8,300 J**	**11,000 J**	**13,000 J**	**5,600 J**	**39,000 J**	**80,000 J**	**12,000 J**	**20,000 J**	**2,100 J**	**1,400 J**	**1,600 J**	**1,800 J**
Isophorone	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Naphthalene	ug/kg	**320,000 J**	**260,000 J**	**23,000**	**45,000 J**	**5,700**	**16,000**	**77,000**	**140,000**	**240,000 J**	**53,000**	**2,900,000 J**	**6,900,000 J**	**300,000 J**	**1,400,000 J**	**310 J**	**3,200 J**	**990 J**	**3,000 J**
Nitrobenzene	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
N-nitrosodi-n-propylamine	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
N-nitrosodiphenylamine	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Pentachlorophenol	ug/kg	48,000 UJ	45,000 UJ	21,000 U	45,000 UJ	9,200 U	8,900 U	26,000 U	26,000 U	38,000 UJ	13,000 U	43,000 UJ	960,000 UJ	33,000 UJ	24,000 UJ	1,600 UJ	2,900 UJ	4,200 UJ	5,400 UJ
Phenanthrene	ug/kg	**320,000 J**	**500,000 J**	**68,000**	**230,000 J**	**29,000**	**43,000**	**120,000**	**170,000**	**170,000 J**	**67,000**	**1,200,000 J**	**2,600,000 J**	**180,000 J**	**610,000 J**	**10,000 J**	**14,000 J**	**9,800 J**	**25,000 J**
Phenol	ug/kg	24,000 UJ	23,000 UJ	11,000 U	23,000 UJ	4,700 U	4,600 U	13,000 U	13,000 U	19,000 UJ	6,700 U	21,000 UJ	480,000 UJ	17,000 UJ	12,000 UJ	830 UJ	1,500 UJ	2,200 UJ	2,800 UJ
Pyrene	ug/kg	**200,000 J**	**240,000 J**	**46,000**	**180,000 J**	**27,000**	**28,000**	**71,000**	**98,000**	**100,000 J**	**44,000**	**630,000 J**	**1,200,000 J**	**94,000 J**	**260,000 J**	**18,000 J**	**9,400 J**	**8,600 J**	**14,000 J**
Total PAHs	ug/kg	**1,876,300**	**2,240,100**	**353,600**	**1,162,600**	**152,600**	**212,500**	**627,400**	**934,400**	**1,197,100**	**403,900**	**8,590,000**	**19,176,000**	**1,098,400**	**4,130,200**	**84,730**	**68,080**	**55,960**	**104,020**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2
Sample Number:		ERT2-3-E	ERT2-3-F	ERT2-3-G	ERT2-3-H	ERT2-3-J	ERT3-1-A	ERT3-1-B	ERT3-1-C	ERT3-1-D	ERT3-1-E	ERT3-1-F	ERT3-1-G	ERT3-1-H	ERT3-2-A	ERT3-2-B	ERT3-2-C	ERT3-2-D	ERT3-2-E
Sample Depth:		3-4	4-5	5-6	6-7	8-9.4	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,3,4,6-tetrachlorophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,4,5-trichlorophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,4,6-trichlorophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,4-dichlorophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,4-dimethylphenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,4-dinitrophenol	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
2,4-dinitrotoluene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2,6-dinitrotoluene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2-chloronaphthalene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2-chlorophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2-methylnaphthalene	ug/kg	**11,000 J**	**30,000 J**	**28,000 J**	**27,000**	**160,000 J**	**960 J**	3,000 U	4,900 U	**480 J**	2,000 U	**22,000 J**	**18,000**	**23,000**	**710 J**	**600 J**	7,200 R	**12,000 J**	**6,600 J**
2-methylphenol (o-cresol)	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
2-nitroaniline	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
2-nitrophenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
3,3'-dichlorobenzidine	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 U	17,000 UJ	7,000 UJ
3-nitroaniline	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
4,6-dinitro-2-methylphenol	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
4-bromophenyl phenyl ether	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
4-chloro-3-methylphenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 UJ	2,200 U	7,200 R	17,000 UJ	7,000 UJ
4-chloroaniline	ug/kg	7,100 UJ	8,300 UJ	**4,200 J**	7,900 U	16,000 UJ	**1,400 J**	**1,500 J**	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
4-chlorophenyl phenyl ether	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
4-methylphenol (p-cresol)	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
4-nitroaniline	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
4-nitrophenol	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
Acenaphthene	ug/kg	**26,000 J**	**23,000 J**	**24,000 J**	**27,000**	**73,000 J**	**54,000 J**	**76,000 J**	**48,000**	**23,000**	**12,000**	**59,000 J**	**19,000**	**24,000**	**6,400**	**9,900**	**45,000 J**	**120,000 J**	**55,000 J**
Acenaphthylene	ug/kg	**3,000 J**	**2,800 J**	**3,500 J**	**3,000 J**	16,000 UJ	**8,800**	**5,800**	**5,500**	**4,400**	**1,400 J**	**6,300 J**	**7,400**	**6,400**	**2,600 J**	**3,000**	**5,900 J**	**15,000 J**	**4,100 J**
Acetophenone	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	**2,400 J**	**1,100 J**	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	**3,300 J**	7,000 UJ
Anthracene	ug/kg	**19,000 J**	**21,000 J**	**20,000 J**	**21,000**	**38,000 J**	**26,000**	**43,000**	**32,000**	**15,000**	**7,900**	**69,000 J**	**30,000**	**35,000**	**7,700**	**11,000**	**27,000 J**	**76,000 J**	**33,000 J**
Atrazine	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Benzaldehyde	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Benzo(a)anthracene	ug/kg	**19,000 J**	**18,000 J**	**19,000 J**	**16,000**	**24,000 J**	**26,000**	**22,000**	**21,000**	**12,000**	**6,300**	**57,000 J**	**25,000**	**29,000**	**13,000**	**11,000**	**22,000**	**57,000 J**	**25,000 J**
Benzo(a)pyrene	ug/kg	**16,000 J**	**14,000 J**	**14,000 J**	**12,000**	**18,000 J**	**22,000**	**16,000**	**19,000**	**9,500**	**5,700**	**9,500 J**	**20,000**	**23,000**	**11,000**	**4,900**	**19,000**	**52,000 J**	**22,000 J**
Benzo(b)fluoranthene	ug/kg	**12,000 J**	**11,000 J**	**8,600 J**	**15,000**	**14,000 J**	**21,000**	**9,100**	**12,000**	**6,200**	**2,700**	**55,000 J**	**13,000**	**27,000**	**6,200**	**4,600**	**12,000**	**48,000 J**	**23,000 J**
Benzo(g,h,i)perylene	ug/kg	**5,500 J**	**4,800 J**	**4,000 J**	**4,500 J**	**7,000 J**	**6,600**	**4,700**	**4,800 J**	**2,900**	**1,600 J**	**15,000 J**	**6,200**	**8,200**	**4,000 J**	**2,700**	**6,500 J**	**20,000 J**	**7,800 J**
Benzo(k)fluoranthene	ug/kg	**12,000 J**	**9,900 J**	**10,000 J**	**15,000**	**13,000 J**	**22,000**	**10,000**	**12,000**	**5,300**	**4,000**	**58,000 J**	**14,000**	**28,000**	**7,800**	**6,400**	**12,000**	**51,000 J**	**24,000 J**
Benzyl butyl phthalate	ug/kg	7,100 UJ	**1,500 J**	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	**3,100 J**	17,000 UJ	7,000 UJ

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2
Sample Number:		ERT2-3-E	ERT2-3-F	ERT2-3-G	ERT2-3-H	ERT2-3-J	ERT3-1-A	ERT3-1-B	ERT3-1-C	ERT3-1-D	ERT3-1-E	ERT3-1-F	ERT3-1-G	ERT3-1-H	ERT3-2-A	ERT3-2-B	ERT3-2-C	ERT3-2-D	ERT3-2-E
Sample Depth:		3-4	4-5	5-6	6-7	8-9.4	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	**5,800 J**	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	**4,500 J**	**2,800 J**	**2,200 J**	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Bis(2-chloroethoxy) methane	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Bis(2-chloroethyl) ether	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Bis(2-chloroisopropyl) ether	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Bis(2-ethylhexyl) phthalate	ug/kg	**74,000 J**	**83,000 J**	**98,000 J**	**96,000**	16,000 UJ	**48,000 J**	**38,000**	**37,000**	**13,000**	**9,300**	**44,000 J**	**9,500**	**7,700**	15,000 U	**8,000**	**39,000**	**56,000 J**	**22,000 J**
Caprolactam	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Carbazole	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	**3,300 J**	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	**9,900 J**	**1,300 J**	**2,200 J**	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Chrysene	ug/kg	**18,000 J**	**18,000 J**	**19,000 J**	**18,000**	**27,000 J**	**24,000**	**21,000**	**21,000**	**11,000**	**6,500**	**54,000 J**	**25,000**	**34,000**	**13,000**	**11,000**	**22,000**	**57,000 J**	**25,000 J**
Dibenz(a,h)anthracene	ug/kg	**2,900 J**	8,300 UJ	**1,700 J**	**1,700 J**	**2,400 J**	**2,800 J**	**1,800 J**	**1,800 J**	**1,100 J**	**600 J**	**5,600 J**	**3,000**	**3,200 J**	**1,500 J**	**1,000 J**	**2,100 J**	**6,200 J**	**2,500 J**
Dibenzofuran	ug/kg	7,100 UJ	8,300 UJ	**2,200 J**	7,900 U	**4,600 J**	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	**12,000 J**	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	**5,700 J**	**3,200 J**
Diethyl phthalate	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Dimethyl phthalate	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Di-n-butyl phthalate	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Di-n-octylphthalate	ug/kg	7,100 UJ	**8,200 J**	**17,000 J**	**9,000**	16,000 UJ	**3,100**	**4,100**	4,900 U	2,200 U	2,000 U	**11,000 J**	3,000 U	6,000 U	4,100 U	2,200 U	**1,600 J**	**7,400 J**	**2,800 J**
Fluoranthene	ug/kg	**44,000 J**	**43,000 J**	**33,000 J**	**33,000**	**47,000 J**	**54,000 J**	**62,000 J**	**42,000**	**22,000**	**11,000**	**110,000 J**	**52,000 J**	**63,000**	**21,000**	**19,000**	**46,000 J**	**110,000 J**	**41,000 J**
Fluorene	ug/kg	**11,000 J**	**12,000 J**	**13,000 J**	**14,000**	**28,000 J**	3,000 U	3,000 U	**1,600 J**	**960 J**	**420 J**	**2,600 J**	**16,000**	**20,000**	**1,000 J**	**2,700**	**1,900 J**	**19,000 J**	**12,000 J**
Hexachlorobenzene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Hexachlorobutadiene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Hexachlorocyclopentadiene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Hexachloroethane	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Indeno(1,2,3-c,d)pyrene	ug/kg	**7,600 J**	**6,400 J**	**5,700 J**	**5,200 J**	**7,500 J**	**7,600**	**6,000**	**6,400**	**3,800**	**2,200**	**19,000 J**	**7,700**	**9,700**	**4,700**	**3,000**	**6,800 J**	**22,000 J**	**9,000 J**
Isophorone	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Naphthalene	ug/kg	**7,700 J**	**2,800 J**	**2,800 J**	**2,300 J**	**340,000 J**	**1,600 J**	**1,300 J**	**1,500 J**	**1,000 J**	**650 J**	**22,000 J**	**8,700**	**13,000**	4,100 U	**1,200 J**	**2,400 J**	**54,000 J**	**24,000 J**
Nitrobenzene	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 UJ	7,200 R	17,000 UJ	7,000 UJ
N-nitrosodi-n-propylamine	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
N-nitrosodiphenylamine	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	**7,900**	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Pentachlorophenol	ug/kg	14,000 UJ	16,000 UJ	22,000 UJ	15,000 U	32,000 UJ	5,900 U	5,900 U	9,600 U	4,200 U	3,900 U	29,000 UJ	5,800 U	12,000 U	8,000 U	4,200 U	14,000 R	34,000 UJ	14,000 UJ
Phenanthrene	ug/kg	**68,000 J**	**75,000 J**	**66,000 J**	**63,000**	**120,000 J**	**16,000**	**29,000**	**18,000**	**7,100**	**3,500**	**190,000 J**	**79,000 J**	**84,000**	**11,000**	**27,000**	**26,000 J**	**180,000 J**	**95,000 J**
Phenol	ug/kg	7,100 UJ	8,300 UJ	11,000 UJ	7,900 U	16,000 UJ	3,000 U	3,000 U	4,900 U	2,200 U	2,000 U	15,000 UJ	3,000 U	6,000 U	4,100 U	2,200 U	7,200 R	17,000 UJ	7,000 UJ
Pyrene	ug/kg	**46,000 J**	**41,000 J**	**41,000 J**	**48,000**	**78,000 J**	**83,000 J**	**82,000 J**	**65,000**	**28,000**	**18,000**	**140,000 J**	**79,000 J**	**74,000**	**30,000**	**29,000**	**62,000**	**170,000 J**	**78,000 J**
Total PAHs	ug/kg	**328,700**	**332,700**	**313,300**	**325,700**	**996,900**	**376,360**	**389,700**	**311,600**	**153,740**	**84,470**	**894,000**	**423,000**	**504,500**	**141,610**	**148,000**	**---**	**1,069,200**	**487,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT3-2	ERT3-2	ERT3-2	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3
Sample Number:		ERT3-2-F	ERT3-2-G	ERT3-2-H	ERT3-3-A	ERT3-3-B	ERT3-3-C	ERT3-3-D	ERT3-3-E	FD-06	ERT3-3-F	ERT3-3-G	ERT3-3-H	ERT3-3-I	ERT3-3-J	ERT4-3-A	ERT4-3-B	ERT4-3-C	ERT4-3-D
Sample Depth:		4-5	5-6	6-7.4	0-0.5	0.5-1	1-2	2-3	3-4	3-4	4-5	5-6	6-7	7-8	8-8.6	0-0.5	0.5-1	1-2	2-3
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,3,4,6-tetrachlorophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,4,5-trichlorophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,4,6-trichlorophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,4-dichlorophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,4-dimethylphenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,4-dinitrophenol	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
2,4-dinitrotoluene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2,6-dinitrotoluene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2-chloronaphthalene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2-chlorophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2-methylnaphthalene	ug/kg	**34,000 J**	**16,000 J**	**100,000 J**	**630**	**140 J**	**300 J**	**6,400**	**2,600 J**	**1,900 J**	**34,000**	**87,000 J**	**86,000 J**	**130,000 J**	**610,000 J**	**580**	**120 J**	**180 J**	**540 J**
2-methylphenol (o-cresol)	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
2-nitroaniline	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
2-nitrophenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
3,3'-dichlorobenzidine	ug/kg	17,000 UJ	2,900 U	12,000 UJ	430 UJ	430 UJ	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 UJ	450 UJ	850 U	830 U
3-nitroaniline	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
4,6-dinitro-2-methylphenol	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
4-bromophenyl phenyl ether	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
4-chloro-3-methylphenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 UJ	430 UJ	850 UJ	4,600 UJ	4,000 UJ	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
4-chloroaniline	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 UJ	430 UJ	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 UJ	450 UJ	850 U	830 U
4-chlorophenyl phenyl ether	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
4-methylphenol (p-cresol)	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
4-nitroaniline	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
4-nitrophenol	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
Acenaphthene	ug/kg	**89,000 J**	**5,000 J**	**72,000 J**	**960**	**860**	**3,100**	**36,000**	**30,000**	**25,000**	**61,000**	**120,000 J**	**140,000 J**	**180,000 J**	**410,000 J**	**840**	**600**	**4,400**	**11,000**
Acenaphthylene	ug/kg	**7,200 J**	**7,600 J**	**3,400 J**	**790**	**770**	**1,500**	**9,600**	**4,500**	**2,300 J**	**4,400 J**	**5,900 J**	**9,500 J**	**7,400 J**	**15,000 J**	**800**	**630**	**1,800**	**2,700**
Acetophenone	ug/kg	17,000 UJ	2,900 R	12,000 UJ	**140 J**	**180 J**	850 U	4,600 U	4,000 U	4,700 U	8,300 U	**3,400 J**	19,000 UJ	18,000 UJ	14,000 UJ	**170 J**	**120 J**	850 U	**330 J**
Anthracene	ug/kg	**61,000 J**	**37,000 J**	**46,000 J**	**1,800**	**960**	**2,900**	**34,000**	**23,000**	**17,000**	**31,000**	**56,000 J**	**65,000 J**	**69,000 J**	**260,000 J**	**1,300**	**870**	**5,300**	**12,000**
Atrazine	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Benzaldehyde	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Benzo(a)anthracene	ug/kg	**36,000 J**	**24,000**	**19,000 J**	**2,700**	**2,400**	**4,900**	**35,000**	**22,000**	**15,000**	**25,000**	**35,000 J**	**43,000 J**	**40,000 J**	**90,000 J**	**2,900**	**1,900**	**6,500**	**14,000 J**
Benzo(a)pyrene	ug/kg	**32,000 J**	**19,000**	**17,000 J**	**2,200**	**2,300**	**4,400**	**26,000**	**16,000**	**11,000**	**19,000**	**28,000 J**	**40,000 J**	**31,000 J**	**66,000 J**	**2,700**	**2,000**	**5,400**	**10,000**
Benzo(b)fluoranthene	ug/kg	**17,000 J**	**18,000**	**6,400 J**	**1,700**	**1,900**	**3,200**	**16,000**	**11,000**	**13,000**	**10,000**	**16,000 J**	**18,000 J**	**29,000 J**	**62,000 J**	**2,000 J**	**1,700**	**5,900**	**10,000**
Benzo(g,h,i)perylene	ug/kg	**11,000 J**	**6,300**	**6,200 J**	**1,000**	**1,100**	**1,800**	**11,000**	**7,400**	**3,700 J**	**6,500 J**	**8,400 J**	**14,000 J**	**9,500 J**	**17,000 J**	**1,700**	**680**	**1,700**	**2,700**
Benzo(k)fluoranthene	ug/kg	**23,000 J**	**19,000 J**	**14,000 J**	**1,600**	**1,600**	**2,700**	**17,000**	**10,000**	**13,000**	**15,000**	**19,000 J**	**27,000 J**	**32,000 J**	**65,000 J**	**2,100**	**1,400**	**6,200**	**11,000**
Benzyl butyl phthalate	ug/kg	17,000 UJ	2,900 U	12,000 UJ	**180 J**	**360 J**	**370 J**	**1,000 J**	**1,200 J**	**1,200 J**	**1,800 J**	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	**240 J**	**160 J**	**260 J**	**420 J**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT3-2	ERT3-2	ERT3-2	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3
Sample Number:		ERT3-2-F	ERT3-2-G	ERT3-2-H	ERT3-3-A	ERT3-3-B	ERT3-3-C	ERT3-3-D	ERT3-3-E	FD-06	ERT3-3-F	ERT3-3-G	ERT3-3-H	ERT3-3-I	ERT3-3-J	ERT4-3-A	ERT4-3-B	ERT4-3-C	ERT4-3-D
Sample Depth:		4-5	5-6	6-7.4	0-0.5	0.5-1	1-2	2-3	3-4	3-4	4-5	5-6	6-7	7-8	8-8.6	0-0.5	0.5-1	1-2	2-3
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Biphenyl (diphenyl)	ug/kg	**3,600 J**	**660 J**	**11,000 J**	**85 J**	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	**2,300 J**	470 U	450 U	850 U	**180 J**
Bis(2-chloroethoxy) methane	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Bis(2-chloroethyl) ether	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Bis(2-chloroisopropyl) ether	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Bis(2-ethylhexyl) phthalate	ug/kg	**69,000 J**	**30,000**	12,000 UJ	**4,800 J**	**6,300 J**	**11,000**	**52,000**	**60,000**	**43,000**	**76,000**	73,000 UJ	51,000 UJ	22,000 UJ	14,000 UJ	**6,200**	**6,100**	**12,000**	**27,000 J**
Caprolactam	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Carbazole	ug/kg	17,000 UJ	**850 J**	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	**3,600 J**	470 U	450 U	850 U	**290 J**
Chrysene	ug/kg	**37,000 J**	**24,000**	**20,000 J**	**2,500**	**2,200**	**4,900**	**33,000**	**20,000**	**16,000**	**25,000**	**33,000 J**	**41,000 J**	**37,000 J**	**81,000 J**	**3,100**	**2,200**	**6,900**	**12,000**
Dibenz(a,h)anthracene	ug/kg	**3,500 J**	**2,500 J**	12,000 UJ	**370 J**	**460 J**	**670 J**	**3,800 J**	**2,400 J**	**1,400 J**	**2,200 J**	**2,900 J**	**4,200 J**	**3,000 J**	**6,400 J**	**340 J**	**250 J**	**600 J**	**1,000**
Dibenzofuran	ug/kg	**5,100 J**	2,900 R	**4,100 J**	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	**5,800 J**	**6,900 J**	**15,000 J**	**22,000 J**	470 U	450 U	850 U	**1,300**
Diethyl phthalate	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Dimethyl phthalate	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Di-n-butyl phthalate	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Di-n-octylphthalate	ug/kg	**9,100 J**	**3,700**	12,000 UJ	430 U	**150 J**	850 U	4,600 U	4,000 U	**2,200 J**	**4,700 J**	**3,700 J**	**5,400 J**	**3,900 J**	14,000 UJ	470 U	**230 J**	**620 J**	**1,500**
Fluoranthene	ug/kg	**75,000 J**	**55,000 J**	**37,000 J**	**3,800**	**2,800**	**7,300**	**54,000**	**34,000**	**29,000**	**45,000**	**62,000 J**	**69,000 J**	**110,000 J**	**160,000 J**	**4,600**	**3,000**	**12,000**	**28,000 J**
Fluorene	ug/kg	**27,000 J**	**18,000 J**	**27,000 J**	**330 J**	**170 J**	**470 J**	**16,000**	**10,000**	**8,400**	**16,000**	**32,000 J**	**41,000 J**	**63,000 J**	**190,000 J**	**400 J**	**87 J**	**330 J**	**2,800**
Hexachlorobenzene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Hexachlorobutadiene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Hexachlorocyclopentadiene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 UJ	430 UJ	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 UJ	450 UJ	850 U	830 U
Hexachloroethane	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**12,000 J**	**7,200**	**5,900 J**	**1,200**	**1,300**	**2,100**	**12,000**	**8,100**	**4,000 J**	**7,300 J**	**11,000 J**	**15,000 J**	**11,000 J**	**21,000 J**	**1,000**	**810**	**1,900**	**3,100**
Isophorone	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Naphthalene	ug/kg	**90,000 J**	**25,000 J**	**180,000 J**	**1,100**	**220 J**	**350 J**	**1,000 J**	**1,100 J**	4,700 U	8,300 U	**10,000 J**	**11,000 J**	**14,000 J**	**16,000 J**	**970**	**180 J**	**340 J**	**1,800**
Nitrobenzene	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 UJ	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 UJ	450 U	850 U	830 U
N-nitrosodi-n-propylamine	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
N-nitrosodiphenylamine	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Pentachlorophenol	ug/kg	34,000 UJ	5,700 R	25,000 UJ	830 U	830 U	1,700 U	8,900 U	7,700 U	9,200 U	16,000 U	37,000 UJ	38,000 UJ	35,000 UJ	27,000 UJ	920 U	870 U	1,700 U	1,600 U
Phenanthrene	ug/kg	**160,000 J**	**110,000 J**	**110,000 J**	**1,600**	**950**	**3,800**	**120,000 J**	**61,000**	**46,000**	**86,000**	**170,000 J**	**190,000 J**	**250,000 J**	**570,000 J**	**1,700**	**540**	**1,800**	**25,000 J**
Phenol	ug/kg	17,000 UJ	2,900 R	12,000 UJ	430 U	430 U	850 U	4,600 U	4,000 U	4,700 U	8,300 U	19,000 UJ	19,000 UJ	18,000 UJ	14,000 UJ	470 U	450 U	850 U	830 U
Pyrene	ug/kg	**120,000 J**	**73,000 J**	**68,000 J**	**6,400**	**6,600**	**12,000**	**120,000 J**	**58,000**	**48,000 J**	**80,000**	**120,000 J**	**110,000 J**	**130,000 J**	**330,000 J**	**6,800 J**	**4,900**	**21,000 J**	**40,000 J**
Total PAHs	ug/kg	**834,700**	**466,600**	**731,900**	**30,680**	**26,730**	**56,390**	**550,800**	**321,100**	**254,700**	**467,400**	**816,200**	**923,700**	**1,145,900**	**2,969,400**	**33,830**	**21,867**	**82,250**	**187,640**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT4-3	ERT4-3	ERT4-3	ERT4-3	GC-SED-01	GC-SED-01	GC-SED-02	GC-SED-02	GC-SED-03	GC-SED-03	GC-SED-04	GC-SED-04	GC-SED-05	GC-SED-07	GC-SED-07	GC-SED-08	GC-SED-09B	GC-SED-10
Sample Number:		ERT4-3-E	ERT4-3-F	ERT4-3-G	ERT4-3-H	GC-SED-01(1-2.5)	GC-SED-01(16-17)	GC-SED-02(1-2)	GC-SED-02(9.6-10.6)	GC-SED-03(0-1.5)	GC-SED-03(7.5-9.3)	GC-SED-04(0-2)	GC-SED-04(10.3-11.3)	GC-SED-05(0-2)	GC-SED-07(0-2.5)	GC-SED-07(7.5-8.5)	GC-SED-08(1-2)	GC-SED-09(6-7)	GC-SED-10(0-1.5)
Sample Depth:		3-4	4-5	5-6	6-7.3	1-2.5	16-17	1-2	9.6-10.6	0-1.5	7.5-9.3	0-2	10.3-11.3	0-2	0-2.5	7.5-8.5	1-2	6-7	0-1.5
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/23/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/21/2005
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
1,2,4,5-tetrachlorobenzene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2,3,4,6-tetrachlorophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2,4,5-trichlorophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
2,4,6-trichlorophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2,4-dichlorophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2,4-dimethylphenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2,4-dinitrophenol	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
2,4-dinitrotoluene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2,6-dinitrotoluene	ug/kg	21,000 UJ	3,400 U	**2,300 J**	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2-chloronaphthalene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2-chlorophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2-methylnaphthalene	ug/kg	**34,000 J**	**13,000**	**15,000**	**17,000**	1,200 U	**82,000**	3,700 U	**51,000**	**150 J**	**14,000**	**3,600 J**	**420,000**	**1,800 J**	**95,000**	**35,000**	**52,000**	**3,300,000**	**6,700**
2-methylphenol (o-cresol)	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
2-nitroaniline	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
2-nitrophenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
3,3'-dichlorobenzidine	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	2,400 U	48,000 U	7,500 U	24,000 U	1,000 U	14,000 U	19,000 U	230,000 U	18,000 U	63,000 U	35,000 U	73,000 U	1,200,000 U	9,800 U
3-nitroaniline	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
4,6-dinitro-2-methylphenol	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
4-bromophenyl phenyl ether	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
4-chloro-3-methylphenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 UJ	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
4-chloroaniline	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	**4,000 J**	520 U	**6,400 J**	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
4-chlorophenyl phenyl ether	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
4-methylphenol (p-cresol)	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
4-nitroaniline	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	2,400 U	48,000 U	7,500 U	24,000 U	1,000 U	14,000 U	19,000 U	230,000 U	18,000 U	63,000 U	35,000 U	73,000 U	1,200,000 U	9,800 U
4-nitrophenol	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
Acenaphthene	ug/kg	**62,000 J**	**35,000**	**31,000**	**35,000**	**710 J**	**51,000**	**4,800**	**46,000**	**430 J**	**9,300**	**44,000**	**310,000**	**29,000**	**150,000**	**36,000**	**97,000**	**1,600,000**	**59,000**
Acenaphthylene	ug/kg	**11,000 J**	**7,900**	**5,200**	**5,700**	**740 J**	**6,100 J**	3,700 U	**8,000 J**	**410 J**	**3,500 J**	**11,000**	**56,000 J**	**7,500 J**	**37,000**	**18,000**	**20,000 J**	**260,000 J**	**9,200**
Acetophenone	ug/kg	**3,900 J**	**970 J**	3,100 U	**750 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	ug/kg	**66,000 J**	**39,000**	**30,000**	**29,000**	**1,200**	**41,000**	**1,700 J**	**25,000**	**830**	**8,300**	**32,000**	**290,000**	**20,000**	**94,000**	**39,000**	**77,000**	**600,000**	**21,000**
Atrazine	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzaldehyde	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo(a)anthracene	ug/kg	**53,000 J**	**30,000**	**26,000**	**36,000**	**1,900**	**47,000**	**2,400 J**	**24,000**	**1,400**	**8,300**	**20,000**	**150,000**	**14,000**	**81,000**	**35,000**	**51,000**	**390,000 J**	**18,000**
Benzo(a)pyrene	ug/kg	**40,000 J**	**25,000**	**22,000**	**27,000**	**1,500**	**39,000**	**1,700 J**	**14,000**	**1,100**	**7,100 J**	**17,000**	**110,000 J**	**11,000**	**74,000**	**24,000**	**45,000**	**360,000 J**	**12,000**
Benzo(b)fluoranthene	ug/kg	**41,000 J**	**15,000**	**13,000**	**21,000**	**1,700**	**41,000**	**2,100 J**	**14,000**	**1,100**	**7,500 J**	**7,000 J**	**42,000 J**	**4,800 J**	**51,000**	**23,000**	**20,000 J**	580,000 U	**9,800**
Benzo(g,h,i)perylene	ug/kg	**12,000 J**	**6,800**	**6,400**	**10,000**	**1,300 J**	**21,000 J**	**1,400 J**	**7,200 J**	**410 J**	**5,100 J**	**8,000 J**	**42,000 J**	**6,800 J**	**29,000 J**	**10,000 J**	**23,000 J**	**230,000 J**	**8,700**
Benzo(k)fluoranthene	ug/kg	**43,000 J**	**17,000**	**15,000**	**13,000**	**420 J**	**20,000 J**	**570 J**	**4,400 J**	**390 J**	**2,500 J**	**7,900 J**	**61,000 J**	**5,600 J**	**26,000 J**	**6,300 J**	**28,000 J**	580,000 U	**3,900 J**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT4-3	ERT4-3	ERT4-3	ERT4-3	GC-SED-01	GC-SED-01	GC-SED-02	GC-SED-02	GC-SED-03	GC-SED-03	GC-SED-04	GC-SED-04	GC-SED-05	GC-SED-07	GC-SED-07	GC-SED-08	GC-SED-09B	GC-SED-10
Sample Number:		ERT4-3-E	ERT4-3-F	ERT4-3-G	ERT4-3-H	GC-SED-01(1-2.5)	GC-SED-01(16-17)	GC-SED-02(1-2)	GC-SED-02(9.6-10.6)	GC-SED-03(0-1.5)	GC-SED-03(7.5-9.3)	GC-SED-04(0-2)	GC-SED-04(10.3-11.3)	GC-SED-05(0-2)	GC-SED-07(0-2.5)	GC-SED-07(7.5-8.5)	GC-SED-08(1-2)	GC-SED-09(6-7)	GC-SED-10(0-1.5)
Sample Depth:		3-4	4-5	5-6	6-7.3	1-2.5	16-17	1-2	9.6-10.6	0-1.5	7.5-9.3	0-2	10.3-11.3	0-2	0-2.5	7.5-8.5	1-2	6-7	0-1.5
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/23/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/21/2005
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Benzyl butyl phthalate	ug/kg	21,000 UJ	**1,500 J**	**1,100 J**	**500 J**	**170 J**	24,000 U	**1,400 J**	**1,600 J**	**210 J**	**4,300 J**	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Biphenyl (diphenyl)	ug/kg	**3,400 J**	3,400 U	3,100 U	**1,200 J**	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bis(2-chloroethoxy) methane	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Bis(2-chloroethyl) ether	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Bis(2-chloroisopropyl) ether	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bis(2-ethylhexyl) phthalate	ug/kg	**110,000 J**	**58,000 J**	**60,000 J**	**46,000**	**5,800**	24,000 U	**31,000**	**87,000**	**3,300**	**68,000**	**25,000**	120,000 U	**7,900 J**	**140,000**	18,000 U	**120,000**	**120,000 J**	**18,000**
Caprolactam	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carbazole	ug/kg	**3,900 J**	**1,200 J**	**1,200 J**	3,000 U	**260 J**	**12,000 J**	3,700 U	**2,300 J**	520 U	**1,500 J**	9,400 U	120,000 U	9,200 U	31,000 U	**2,600 J**	36,000 U	580,000 U	4,900 U
Chrysene	ug/kg	**54,000 J**	**27,000**	**25,000**	**31,000**	**1,900**	**54,000**	**2,500 J**	**24,000**	**1,400**	**11,000**	**20,000**	**150,000**	**14,000**	**83,000**	**40,000**	**52,000**	**390,000 J**	**18,000**
Dibenz(a,h)anthracene	ug/kg	**4,100 J**	**2,600 J**	**2,100 J**	**3,700**	**380 J**	**6,200 J**	3,700 U	**2,200 J**	**120 J**	**1,700 J**	**2,500 J**	**17,000 J**	**1,900 J**	**7,900 J**	18,000 U	**5,800 J**	580,000 U	**2,300 J**
Dibenzofuran	ug/kg	**11,000 J**	3,400 U	3,100 U	3,000 U	1,200 U	**12,000 J**	3,700 U	**4,200 J**	520 U	**1,600 J**	**2,300 J**	**24,000 J**	9,200 U	**9,000 J**	**4,100 J**	**6,500 J**	580,000 U	**2,800 J**
Diethyl phthalate	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Dimethyl phthalate	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Di-n-butyl phthalate	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	**780 J**
Di-n-octylphthalate	ug/kg	**7,100 J**	**4,900**	**4,000**	**3,500**	**130 J**	24,000 U	**460 J**	**19,000**	**110 J**	**11,000 J**	9,400 U	120,000 U	9,200 U	**13,000 J**	18,000 U	**8,800 J**	580,000 U	4,900 U
Fluoranthene	ug/kg	**100,000 J**	**52,000**	**48,000**	**45,000**	**2,800**	**110,000**	**4,900**	**45,000**	**3,000**	**22,000**	**39,000**	**300,000**	**27,000**	**140,000**	**54,000**	**120,000**	**800,000**	**30,000**
Fluorene	ug/kg	**33,000 J**	**15,000**	**13,000**	**12,000**	**630 J**	**38,000**	**2,000 J**	**29,000**	**280 J**	**6,100 J**	**4,800 J**	**190,000**	**8,100 J**	**59,000**	**27,000**	**38,000**	**690,000**	**13,000**
Hexachlorobenzene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Hexachlorobutadiene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Hexachlorocyclopentadiene	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Hexachloroethane	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**14,000 J**	**8,000**	**7,100**	**12,000**	**1,100 J**	**18,000 J**	**1,300 J**	**6,100 J**	**430 J**	**4,600 J**	**6,500 J**	**39,000 J**	**5,300 J**	**23,000 J**	**8,800 J**	**17,000 J**	**180,000 J**	**6,600**
Isophorone	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Naphthalene	ug/kg	**26,000 J**	**15,000**	**16,000**	**24,000**	**470 J**	**310,000**	**1,400 J**	**40,000**	**1,100**	**9,900**	**6,600 J**	**430,000**	**13,000**	**100,000**	**39,000**	**8,400 J**	**6,300,000**	**14,000**
Nitrobenzene	ug/kg	21,000 UJ	3,400 UJ	3,100 UJ	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
N-nitrosodi-n-propylamine	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
N-nitrosodiphenylamine	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Pentachlorophenol	ug/kg	42,000 UJ	6,600 U	6,000 U	5,800 U	5,700 U	120,000 U	18,000 U	57,000 U	2,500 U	35,000 U	46,000 U	560,000 U	45,000 U	150,000 U	85,000 U	180,000 U	2,800,000 U	24,000 U
Phenanthrene	ug/kg	**170,000 J**	**91,000 J**	**82,000 J**	**67,000 J**	**3,100**	**170,000**	**2,800 J**	**100,000**	**2,800**	**34,000**	**92,000**	**800,000**	**62,000**	**280,000**	**100,000**	**220,000**	**2,200,000**	**62,000**
Phenol	ug/kg	21,000 UJ	3,400 U	3,100 U	3,000 U	1,200 U	24,000 U	3,700 U	12,000 U	520 U	7,100 U	9,400 U	120,000 U	9,200 U	31,000 U	18,000 U	36,000 U	580,000 U	4,900 U
Pyrene	ug/kg	**150,000 J**	**81,000 J**	**86,000 J**	**95,000 J**	**3,000**	**95,000**	**4,200**	**56,000**	**4,200**	**17,000**	**53,000**	**360,000**	**31,000**	**160,000**	**63,000**	**150,000**	**1,100,000**	**37,000**
Total PAHs	ug/kg	**913,100**	**480,300**	**442,800**	**483,400**	**22,850**	**1,149,300**	**33,770**	**495,900**	**19,550**	**171,900**	**374,900**	**3,767,000**	**262,800**	**1,489,900**	**558,100**	**1,024,200**	**18,400,000**	**331,200**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-100	GC-SED-101	GC-SED-102	GC-SED-102	GC-SED-103	GC-SED-103	GC-SED-105	GC-SED-11	GC-SED-11	GC-SED-12	GC-SED-12	GC-SED-13B	GC-SED-14	GC-SED-14	GC-SED-15	GC-SED-16	GC-SED-17	GC-SED-18
Sample Number:		GC-SED-100(5-6)	GC-SED-101(4-7)	GC-SED-102(2-4)	GC-SED-102(6.5-8.5)	GC-SED-103(1-2)	GC-SED-103(8.1-9.1)	GC-SED-105(2.5-4)	GC-SED-11(1-3)	GC-SED-11(11-13)	GC-SED-12(0-2)	GC-SED-12(13-14)	GC-SED-13B(0-2)	GC-SED-14(0-1.5)	GC-SED-14(5.5-6.5)	GC-SED-15(0-0.75)	GC-SED-16(0-2)	GC-SED-17(0-2)	GC-SED-18(0-1)
Sample Depth:		5-6	4-7	2-4	6.5-8.5	1-2	8.1-9.1	2.5-4	1-3	11-13	0-2	13-14	0-2	0-1.5	5.5-6.5	0-0.75	0-2	0-2	0-1
Sample Date:		1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/22/2006	1/5/2006	1/5/2006	12/21/2005	12/21/2005	1/7/2006	1/7/2006	1/7/2006	1/7/2006	1/8/2006	1/8/2006	1/7/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
2,4,6-trichlorophenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2,4-dichlorophenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2,4-dimethylphenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2,4-dinitrophenol	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
2,4-dinitrotoluene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2,6-dinitrotoluene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2-chloronaphthalene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2-chlorophenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2-methylnaphthalene	ug/kg	**810,000**	**1,500,000**	**5,100,000**	**4,900,000**	32,000 U	**1,500,000**	**1,100,000**	**49,000**	15,000 U	**11,000**	**180,000**	3,800 U	**3,300 J**	**2,100,000**	3,600 U	**9,900**	**25,000 J**	**2,000 J**
2-methylphenol (o-cresol)	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
2-nitroaniline	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
2-nitrophenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
3,3'-dichlorobenzidine	ug/kg	340,000 U	440,000 U	2,300,000 U	2,000,000 U	65,000 U	550,000 U	370,000 U	19,000 U	29,000 U	7,200 U	74,000 U	7,600 U	17,000 U	1,100,000 U	7,200 U	9,500 U	8,000 U	8,100 U
3-nitroaniline	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
4,6-dinitro-2-methylphenol	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
4-bromophenyl phenyl ether	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
4-chloro-3-methylphenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
4-chloroaniline	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
4-chlorophenyl phenyl ether	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
4-methylphenol (p-cresol)	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
4-nitroaniline	ug/kg	340,000 U	440,000 U	2,300,000 U	2,000,000 U	65,000 U	550,000 U	370,000 U	19,000 U	29,000 U	7,200 U	74,000 U	7,600 U	17,000 U	1,100,000 U	7,200 U	9,500 U	8,000 U	8,100 U
4-nitrophenol	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
Acenaphthene	ug/kg	**330,000**	**530,000**	**1,800,000**	**1,700,000**	**54,000**	**580,000**	**670,000**	**51,000**	**3,900 J**	**17,000**	**130,000**	**1,100 J**	**19,000**	**1,900,000**	**1,800 J**	**10,000**	**15,000 J**	**9,500**
Acenaphthylene	ug/kg	**98,000 J**	**130,000 J**	**440,000 J**	**380,000 J**	**40,000**	**120,000 J**	**140,000 J**	**30,000**	**17,000**	**9,500**	**52,000**	**1,800 J**	**9,800**	540,000 U	**2,000 J**	**6,300**	**7,100 J**	**2,300 J**
Anthracene	ug/kg	**230,000**	**490,000**	**1,000,000 J**	**950,000 J**	**87,000**	**330,000**	**410,000**	**41,000**	**18,000**	**14,000**	**90,000**	**2,200 J**	**20,000**	**970,000**	**2,600 J**	**10,000**	**11,000 J**	**6,500**
Benzo(a)anthracene	ug/kg	**150,000 J**	**210,000 J**	**630,000 J**	**510,000 J**	**59,000**	**190,000 J**	**270,000**	**43,000**	**43,000**	**16,000**	**58,000**	**5,400**	**23,000**	**530,000 J**	**6,000**	**10,000**	**13,000 J**	**6,300**
Benzo(a)pyrene	ug/kg	**130,000 J**	**150,000 J**	**440,000 J**	**390,000 J**	**50,000**	**140,000 J**	**180,000 J**	**36,000**	**32,000 J**	**13,000**	**43,000**	**4,700**	**18,000**	**380,000 J**	**5,200**	**8,400**	**11,000 J**	**5,100**
Benzo(b)fluoranthene	ug/kg	**100,000 J**	**100,000 J**	1,200,000 U	1,000,000 U	**40,000**	**130,000 J**	**140,000 J**	**14,000**	**16,000 J**	**9,600**	**26,000 J**	**4,100**	**16,000**	**270,000 J**	**4,500**	**7,800**	**11,000 J**	**4,500**
Benzo(g,h,i)perylene	ug/kg	**30,000 J**	**71,000 J**	**340,000 J**	**270,000 J**	**10,000 J**	280,000 U	**77,000 J**	**13,000 J**	**9,900 J**	**10,000**	**26,000 J**	**2,000 J**	**5,000 J**	**110,000 J**	**2,400 J**	**3,200 J**	**4,200 J**	**2,200 J**
Benzo(k)fluoranthene	ug/kg	**33,000 J**	**36,000 J**	**260,000 J**	1,000,000 U	**19,000 J**	280,000 U	**56,000 J**	**20,000**	**21,000 J**	**4,900**	**14,000 J**	**1,900 J**	**4,600 J**	**97,000 J**	**2,100 J**	**2,200 J**	**2,700 J**	**1,600 J**
Benzyl butyl phthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	**740 J**	4,000 U	4,100 U
Bis(2-chloroethoxy) methane	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Bis(2-chloroethyl) ether	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Bis(2-ethylhexyl) phthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	**29,000**	**110,000**	**21,000**	37,000 U	**28,000**	**25,000**	540,000 U	**19,000**	**38,000**	**13,000 J**	**26,000**
Carbazole	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	**1,000 J**	4,100 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-100	GC-SED-101	GC-SED-102	GC-SED-102	GC-SED-103	GC-SED-103	GC-SED-105	GC-SED-11	GC-SED-11	GC-SED-12	GC-SED-12	GC-SED-13B	GC-SED-14	GC-SED-14	GC-SED-15	GC-SED-16	GC-SED-17	GC-SED-18
Sample Number:		GC-SED-100(5-6)	GC-SED-101(4-7)	GC-SED-102(2-4)	GC-SED-102(6.5-8.5)	GC-SED-103(1-2)	GC-SED-103(8.1-9.1)	GC-SED-105(2.5-4)	GC-SED-11(1-3)	GC-SED-11(11-13)	GC-SED-12(0-2)	GC-SED-12(13-14)	GC-SED-13B(0-2)	GC-SED-14(0-1.5)	GC-SED-14(5.5-6.5)	GC-SED-15(0-0.75)	GC-SED-16(0-2)	GC-SED-17(0-2)	GC-SED-18(0-1)
Sample Depth:		5-6	4-7	2-4	6.5-8.5	1-2	8.1-9.1	2.5-4	1-3	11-13	0-2	13-14	0-2	0-1.5	5.5-6.5	0-0.75	0-2	0-2	0-1
Sample Date:		1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/22/2006	1/5/2006	1/5/2006	12/21/2005	12/21/2005	1/7/2006	1/7/2006	1/7/2006	1/7/2006	1/8/2006	1/8/2006	1/7/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**180,000**	**250,000**	**710,000 J**	**590,000 J**	**54,000**	**190,000 J**	**280,000**	**45,000**	**43,000**	**15,000**	**62,000**	**5,600**	**22,000**	**520,000 J**	**6,300**	**10,000**	**12,000 J**	**6,600**
Dibenz(a,h)anthracene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	**5,000 J**	280,000 U	180,000 U	**4,300 J**	**3,100 J**	**2,400 J**	**5,500 J**	**470 J**	**1,200 J**	540,000 U	**410 J**	**770 J**	**1,200 J**	**510 J**
Dibenzofuran	ug/kg	**31,000 J**	**45,000 J**	**300,000 J**	**210,000 J**	32,000 U	280,000 U	**45,000 J**	**4,400 J**	15,000 U	**1,200 J**	**9,500 J**	3,800 U	8,500 U	540,000 U	3,600 U	**820 J**	**1,300 J**	4,100 U
Diethyl phthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Dimethyl phthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Di-n-butyl phthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Di-n-octylphthalate	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	**2,300 J**	**540 J**	37,000 U	3,800 U	**1,000 J**	540,000 U	3,600 U	**680 J**	4,000 U	**850 J**
Fluoranthene	ug/kg	**220,000**	**290,000**	**1,100,000 J**	**920,000 J**	**110,000**	**350,000**	**450,000**	**91,000**	**230,000**	**24,000**	**100,000**	**7,900**	**43,000**	**960,000**	**9,300**	**21,000**	**19,000 J**	**14,000**
Fluorene	ug/kg	**230,000**	**360,000**	**1,300,000**	**1,200,000**	**31,000 J**	**350,000**	**390,000**	**19,000**	15,000 U	**6,500**	**74,000**	3,800 U	**4,200 J**	**620,000**	3,600 U	**6,600**	**8,700 J**	**3,100 J**
Hexachlorobenzene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Hexachlorobutadiene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Hexachlorocyclopentadiene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Hexachloroethane	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**31,000 J**	**56,000 J**	**240,000 J**	**220,000 J**	**9,200 J**	280,000 U	**71,000 J**	**11,000**	**8,900 J**	**7,000**	**18,000 J**	**1,900 J**	**4,800 J**	**96,000 J**	**2,500 J**	**3,300 J**	**3,600 J**	**2,100 J**
Isophorone	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Naphthalene	ug/kg	**1,100,000**	**2,700,000**	**12,000,000**	**11,000,000**	**17,000 J**	**2,000,000**	**2,000,000**	**71,000**	**3,200 J**	**22,000**	**310,000**	**660 J**	**13,000**	**8,500,000**	**1,200 J**	**44,000**	**47,000 J**	**6,600**
Nitrobenzene	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
N-nitrosodi-n-propylamine	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
N-nitrosodiphenylamine	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Pentachlorophenol	ug/kg	830,000 U	1,100,000 U	5,600,000 U	4,900,000 U	160,000 U	1,300,000 U	890,000 U	45,000 U	71,000 U	17,000 U	180,000 U	18,000 U	41,000 U	2,600,000 U	17,000 U	23,000 U	19,000 U	20,000 U
Phenanthrene	ug/kg	**640,000**	**850,000**	**3,600,000**	**3,200,000**	**150,000**	**910,000**	**1,400,000**	**100,000**	**5,800 J**	**27,000**	**250,000**	**2,700 J**	**46,000**	**3,200,000**	**2,600 J**	**33,000**	**38,000 J**	**24,000**
Phenol	ug/kg	170,000 U	220,000 U	1,200,000 U	1,000,000 U	32,000 U	280,000 U	180,000 U	9,300 U	15,000 U	3,600 U	37,000 U	3,800 U	8,500 U	540,000 U	3,600 U	4,800 U	4,000 U	4,100 U
Pyrene	ug/kg	**270,000**	**400,000**	**1,600,000**	**1,400,000**	**64,000**	**270,000 J**	**750,000**	**99,000**	**160,000**	**34,000**	**150,000**	**16,000**	**71,000**	**1,700,000**	**18,000**	**35,000 J**	**23,000 J**	**25,000**
Total PAHs	ug/kg	**4,582,000**	**8,123,000**	**30,560,000**	**27,630,000**	**799,200**	**7,060,000**	**8,384,000**	**737,300**	**614,800**	**242,900**	**1,588,500**	**58,430**	**323,900**	**21,953,000**	**66,910**	**221,470**	**252,500**	**121,910**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-19C	GC-SED-19C	GC-SED-20	GC-SED-20	GC-SED-21B	GC-SED-21B	GC-SED-22B	GC-SED-22B	GC-SED-23	GC-SED-24B	GC-SED-25B	GC-SED-26	GC-SED-27	GC-SED-27	GC-SED-28	GC-SED-28	GC-SED-29	GC-SED-30
Sample Number:		GC-SED-19C(1.5-2)	GC-SED-19C(5.8-6.8)	GC-SED-20(0-1.5)	GC-SED-20(4-5)	GC-SED-21B(1.5-3)	GC-SED-21B(7-8)	GC-SED-22B(0-1)	GC-SED-22B(7-8)	GC-SED-23(0-2)	GC-SED-24(3-4.5)	GC-SED-25(1-4)	GC-SED-26(1-2)	GC-SED-27(0.5-1)	GC-SED-27(4.9-5.4)	GC-SED-28(1.5-2.5)	GC-SED-28(4.9-5.8)	GC-SED-29(2.3-4.6)	GC-SED-30(3.5-5.5)
Sample Depth:		1.5-2	5.8-6.8	0-1.5	4-5	1.5-3	7-8	0-1	7-8	0-2	3-5	1-4	1-2	0.5-1	4.9-5.4	1.5-2.5	4.9-5.8	2.3-4.6	3.5-5.5
Sample Date:		1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/9/2006	1/9/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
2,4,6-trichlorophenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2,4-dichlorophenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2,4-dimethylphenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2,4-dinitrophenol	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
2,4-dinitrotoluene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2,6-dinitrotoluene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2-chloronaphthalene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2-chlorophenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2-methylnaphthalene	ug/kg	**1,700 J**	**9,400 J**	**380 J**	**9,500 J**	18,000 U	**1,800 J**	3,500 U	**94,000**	**570 J**	**1,300 J**	**1,400 J**	**3,200 J**	3,100 U	**550,000**	5,400 U	**17,000**	**2,300**	**5,400**
2-methylphenol (o-cresol)	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
2-nitroaniline	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
2-nitrophenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
3,3'-dichlorobenzidine	ug/kg	12,000 U	53,000 U	3,500 U	9,000 UJ	36,000 U	6,900 U	6,900 U	33,000 U	3,800 U	3,000 U	11,000 U	9,800 U	6,200 U	240,000 U	11,000 U	5,400 U	3,200 U	9,800 U
3-nitroaniline	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
4,6-dinitro-2-methylphenol	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
4-bromophenyl phenyl ether	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
4-chloro-3-methylphenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
4-chloroaniline	ug/kg	6,200 U	27,000 U	1,700 U	4,500 U	18,000 U	**1,300 J**	3,500 U	16,000 U	1,900 U	**600 J**	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
4-chlorophenyl phenyl ether	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
4-methylphenol (p-cresol)	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
4-nitroaniline	ug/kg	12,000 U	53,000 U	3,500 U	9,000 UJ	36,000 U	6,900 U	6,900 U	33,000 U	3,800 U	3,000 U	11,000 U	9,800 U	6,200 U	240,000 U	11,000 U	5,400 U	3,200 U	9,800 U
4-nitrophenol	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 U	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
Acenaphthene	ug/kg	**12,000 J**	**28,000**	**1,400 J**	**9,700 J**	**20,000**	**10,000**	**2,200 J**	**80,000**	**2,200**	**3,400**	**4,800 J**	**4,900 J**	**570 J**	120,000 U	**2,500 J**	**11,000**	**2,900**	**6,300**
Acenaphthylene	ug/kg	**8,700**	**17,000 J**	**1,800**	**9,500 J**	**15,000 J**	**3,700**	**3,000 J**	**18,000**	**2,600**	**3,700**	**4,500 J**	**5,200**	**1,200 J**	**29,000 J**	**3,500 J**	**3,500**	**2,400**	**5,000**
Anthracene	ug/kg	**15,000 J**	**48,000**	**2,200**	**13,000 J**	**26,000**	**12,000**	**3,600**	**65,000**	**3,100**	**5,100**	**7,400**	**6,400**	**1,100 J**	**200,000**	**4,900 J**	**8,900**	**3,600**	**9,100**
Benzo(a)anthracene	ug/kg	**22,000 J**	**55,000**	**5,100**	**21,000 J**	**43,000**	**15,000**	**7,200**	**50,000**	**5,300**	**7,600**	**13,000**	**14,000**	**3,300**	**100,000 J**	**9,400**	**8,900**	**6,000**	**12,000**
Benzo(a)pyrene	ug/kg	**18,000 J**	**42,000**	**4,400**	**19,000 J**	**35,000**	**12,000**	**6,200**	**40,000**	**4,600**	**7,100**	**11,000**	**12,000**	**2,900 J**	**67,000 J**	**8,400**	**6,800**	**5,600**	**11,000**
Benzo(b)fluoranthene	ug/kg	**16,000 J**	**39,000**	**5,500**	**16,000 J**	**32,000**	**11,000**	**6,100**	**30,000**	**5,200**	**7,300**	**5,500 J**	**11,000**	**3,400**	**61,000 J**	**5,000 J**	**3,100**	**3,400**	**5,300**
Benzo(g,h,i)perylene	ug/kg	**5,500 J**	**18,000 J**	**1,500 J**	**4,700 J**	**15,000 J**	**2,800 J**	**2,700 J**	**13,000 J**	**1,500 J**	**1,700**	**7,800**	**3,200 J**	**1,500 J**	120,000 U	**6,700 J**	**3,000**	**3,100 J**	**8,600 J**
Benzo(k)fluoranthene	ug/kg	**5,300 J**	**18,000 J**	**1,400 J**	**5,600 J**	**13,000 J**	**3,100 J**	**1,900 J**	**10,000 J**	**1,200 J**	**2,200**	**7,700**	**3,200 J**	**990 J**	**24,000 J**	**4,700 J**	**3,300**	**3,300**	**6,000**
Benzyl butyl phthalate	ug/kg	6,200 U	27,000 U	**270 J**	**1,200 J**	**3,600 J**	**1,000 J**	**840 J**	**2,800 J**	**320 J**	**590 J**	**3,600 J**	**1,300 J**	**780 J**	120,000 U	**730 J**	**380 J**	**3,100**	**1,100 J**
Bis(2-chloroethoxy) methane	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Bis(2-chloroethyl) ether	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Bis(2-ethylhexyl) phthalate	ug/kg	**62,000 J**	**120,000**	**9,800**	**61,000 J**	**120,000**	**42,000**	**32,000**	**140,000**	**22,000**	**22,000**	**32,000**	**43,000**	**15,000**	**90,000 J**	**47,000**	**12,000**	**22,000**	**48,000**
Carbazole	ug/kg	6,200 U	27,000 U	**560 J**	4,500 UJ	18,000 U	**770 J**	3,500 U	16,000 U	1,900 U	**340 J**	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	**400 J**	**400 J**	4,900 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-19C	GC-SED-19C	GC-SED-20	GC-SED-20	GC-SED-21B	GC-SED-21B	GC-SED-22B	GC-SED-22B	GC-SED-23	GC-SED-24B	GC-SED-25B	GC-SED-26	GC-SED-27	GC-SED-27	GC-SED-28	GC-SED-28	GC-SED-29	GC-SED-30
Sample Number:		GC-SED-19C(1.5-2)	GC-SED-19C(5.8-6.8)	GC-SED-20(0-1.5)	GC-SED-20(4-5)	GC-SED-21B(1.5-3)	GC-SED-21B(7-8)	GC-SED-22B(0-1)	GC-SED-22B(7-8)	GC-SED-23(0-2)	GC-SED-24(3-4.5)	GC-SED-25(1-4)	GC-SED-26(1-2)	GC-SED-27(0.5-1)	GC-SED-27(4.9-5.4)	GC-SED-28(1.5-2.5)	GC-SED-28(4.9-5.8)	GC-SED-29(2.3-4.6)	GC-SED-30(3.5-5.5)
Sample Depth:		1.5-2	5.8-6.8	0-1.5	4-5	1.5-3	7-8	0-1	7-8	0-2	3-5	1-4	1-2	0.5-1	4.9-5.4	1.5-2.5	4.9-5.8	2.3-4.6	3.5-5.5
Sample Date:		1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/9/2006	1/9/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**23,000 J**	**60,000**	**4,600**	**23,000 J**	**50,000**	**15,000**	**8,000**	**49,000**	**6,000**	**8,400**	**14,000**	**13,000**	**3,300**	**110,000 J**	**11,000**	**9,900**	**7,000**	**13,000**
Dibenz(a,h)anthracene	ug/kg	**1,400 J**	27,000 U	**540 J**	**1,100 J**	**2,800 J**	**920 J**	**640 J**	**3,400 J**	**570 J**	**640 J**	**2,100 J**	**880 J**	3,100 U	120,000 U	**2,100 J**	**1,300 J**	**1,100 J**	**2,700 J**
Dibenzofuran	ug/kg	6,200 U	27,000 U	**440 J**	**850 J**	18,000 U	3,500 U	3,500 U	16,000 U	**330 J**	**310 J**	**900 J**	4,900 U	3,100 U	120,000 U	5,400 U	**1,200 J**	**500 J**	**1,100 J**
Diethyl phthalate	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Dimethyl phthalate	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Di-n-butyl phthalate	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	**560 J**	3,500 U	16,000 U	1,900 U	**260 J**	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Di-n-octylphthalate	ug/kg	**2,200 J**	**6,500 J**	**330 J**	**1,400 J**	**5,500 J**	**3,200 J**	**710 J**	**6,500 J**	**500 J**	**850 J**	**950 J**	4,900 U	3,100 U	120,000 U	**1,300 J**	2,700 U	**800 J**	**1,400 J**
Fluoranthene	ug/kg	**47,000 J**	**110,000**	**8,200**	**35,000 J**	**87,000**	**26,000**	**12,000**	**100,000**	**8,000**	**12,000**	**22,000**	**27,000**	**5,100**	**190,000**	**17,000**	**15,000**	**11,000**	**22,000**
Fluorene	ug/kg	**3,000 J**	**15,000 J**	**770 J**	**4,300 J**	**4,500 J**	**3,900**	3,500 U	**31,000**	**960 J**	**1,400 J**	**2,000 J**	4,900 U	3,100 U	**120,000**	**900 J**	**5,800**	**1,100 J**	**3,500 J**
Hexachlorobenzene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Hexachlorobutadiene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Hexachlorocyclopentadiene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Hexachloroethane	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**5,800 J**	**19,000 J**	**1,500 J**	**5,400 J**	**13,000 J**	**3,500**	**2,600 J**	**12,000 J**	**1,500 J**	**1,900 J**	**6,000**	**3,400 J**	**1,700 J**	120,000 U	**5,500**	**2,600 J**	**2,800**	**6,900**
Isophorone	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Naphthalene	ug/kg	**3,400 J**	**13,000 J**	**800 J**	**22,000 J**	**6,500 J**	**5,200**	**850 J**	**170,000**	**1,000 J**	**2,500**	**2,100 J**	**4,900 J**	3,100 U	**680,000**	**1,400 J**	**17,000**	**3,600**	**6,800**
Nitrobenzene	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
N-nitrosodi-n-propylamine	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
N-nitrosodiphenylamine	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	**3,300 J**	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Pentachlorophenol	ug/kg	30,000 U	130,000 U	8,400 U	22,000 UJ	87,000 U	17,000 U	17,000 U	79,000 U	9,300 U	7,300 U	27,000 UJ	24,000 U	15,000 U	570,000 U	26,000 U	13,000 U	7,800 U	24,000 U
Phenanthrene	ug/kg	**17,000 J**	**120,000**	**5,600**	**18,000 J**	**28,000**	**32,000**	**2,400 J**	**200,000**	**3,700**	**6,300**	**11,000**	**5,600**	**1,200 J**	**530,000**	**5,300 J**	**22,000**	**5,600**	**20,000**
Phenol	ug/kg	6,200 U	27,000 U	1,700 U	4,500 UJ	18,000 U	3,500 U	3,500 U	16,000 U	1,900 U	1,500 U	5,500 U	4,900 U	3,100 U	120,000 U	5,400 U	2,700 U	1,600 U	4,900 U
Pyrene	ug/kg	**55,000 J**	**160,000**	**6,500**	**60,000 J**	**130,000**	**48,000**	**18,000**	**170,000**	**8,300**	**10,000**	**27,000 J**	**35,000**	**8,100**	**330,000**	**20,000**	**19,000**	**11,000**	**25,000**
Total PAHs	ug/kg	**259,800**	**771,400**	**52,190**	**276,800**	**520,800**	**205,920**	**77,390**	**1,135,400**	**56,300**	**82,540**	**149,300**	**152,880**	**34,360**	**2,991,000**	**108,300**	**158,100**	**75,800**	**168,600**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-31	GC-SED-31	GC-SED-32	GC-SED-32	GC-SED-33	GC-SED-34B	GC-SED-34B	GC-SED-35	GC-SED-35	GC-SED-36	GC-SED-36	GC-SED-37B	GC-SED-38	GC-SED-39	GC-SED-39	GC-SED-40	GC-SED-41	GC-SED-43
Sample Number:		GC-SED-31(2.5-4.5)	GC-SED-31(11.5-12.5)	GC-SED-32(0.5-1.5)	GC-SED-32(5.9-6.9)	GC-SED-33(1.5-3)	GC-SED-34B(2-3)	GC-SED-34B(5.8-6.8)	GC-SED-35(0-4.5)	GC-SED-35(8.8-10.8)	GC-SED-36(2.5-4.5)	GC-SED-36(8-9)	GC-SED-37B(7-8)	GC-SED-38(5.1-6.1)	GC-SED-39(1-2)	GC-SED-39(4.5-5.5)	GC-SED-40(2.5-3.5)	GC-SED-41(0-4.5)	GC-SED-43(2-3)
Sample Depth:		2.5-4.5	11.5-12.5	0.5-1.5	5.9-6.9	1.5-3	2-3	5.8-6.8	0-4.5	8.8-10.8	2.5-4.5	8-9	7-8	5.1-6.1	1-2	4.5-5.5	2.5-3.5	0-4.5	2-3
Sample Date:		1/16/2006	1/16/2006	1/16/2006	1/16/2006	1/17/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/16/2006	1/16/2006	12/22/2005	12/22/2005	1/8/2006	1/8/2006	1/17/2006	1/17/2006	1/23/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 U	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
2,4,6-trichlorophenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2,4-dichlorophenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2,4-dimethylphenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2,4-dinitrophenol	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 U	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
2,4-dinitrotoluene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2,6-dinitrotoluene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2-chloronaphthalene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2-chlorophenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2-methylnaphthalene	ug/kg	**14,000**	**7,500,000**	3,400 U	**150,000**	**6,000 J**	**16,000**	**71,000**	**200,000**	**2,000,000**	**16,000 J**	**7,100,000**	**4,000,000**	**230,000**	**2,000 J**	**3,200,000**	**13,000**	**260 J**	**2,200,000**
2-methylphenol (o-cresol)	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
2-nitroaniline	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 U	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
2-nitrophenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
3,3'-dichlorobenzidine	ug/kg	23,000 U	2,200,000 U	6,700 U	59,000 U	28,000 U	26,000 U	31,000 U	77,000 U	770,000 U	33,000 U	1,100,000 U	880,000 U	94,000 U	19,000 U	920,000 U	6,800 U	660 U	780,000 U
3-nitroaniline	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 U	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
4,6-dinitro-2-methylphenol	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 U	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
4-bromophenyl phenyl ether	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
4-chloro-3-methylphenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
4-chloroaniline	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	**8,700 J**	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
4-chlorophenyl phenyl ether	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
4-methylphenol (p-cresol)	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
4-nitroaniline	ug/kg	23,000 U	2,200,000 U	6,700 U	59,000 U	28,000 U	26,000 U	31,000 U	77,000 U	770,000 U	33,000 U	1,100,000 U	880,000 U	94,000 U	19,000 U	920,000 U	6,800 U	660 U	780,000 U
4-nitrophenol	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 UR	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
Acenaphthene	ug/kg	**14,000**	**3,900,000**	**1,200 J**	**97,000**	**8,400 J**	**31,000**	**50,000**	**81,000**	**620,000**	**19,000**	**3,300,000**	**1,800,000**	**140,000**	**27,000**	**1,400,000**	**13,000**	**180 J**	**1,000,000**
Acenaphthylene	ug/kg	**9,300 J**	**190,000 J**	**1,400 J**	**25,000 J**	**7,000 J**	**21,000**	**25,000**	**23,000 J**	**340,000 J**	**16,000 J**	**220,000 J**	**440,000 J**	**71,000**	**21,000**	**280,000 J**	**5,100**	**420**	**310,000 J**
Anthracene	ug/kg	**25,000**	**1,300,000**	**1,900 J**	**83,000**	**14,000**	**44,000**	**70,000**	**42,000**	**420,000**	**28,000**	**1,800,000**	**1,100,000**	**170,000**	**50,000**	**670,000**	**9,600**	**500**	**700,000**
Benzo(a)anthracene	ug/kg	**25,000**	**550,000 J**	**3,400**	**54,000**	**18,000**	**46,000**	**56,000**	**26,000 J**	**220,000 J**	**33,000**	**520,000 J**	**650,000**	**130,000**	**54,000**	**410,000 J**	**9,200**	**910**	**400,000**
Benzo(a)pyrene	ug/kg	**20,000**	**380,000 J**	**3,400**	**43,000**	**15,000**	**39,000**	**46,000**	**20,000 J**	**150,000 J**	**30,000**	**320,000 J**	**510,000**	**100,000**	**43,000**	**230,000 J**	**6,900**	**680**	**260,000 J**
Benzo(b)fluoranthene	ug/kg	**11,000 J**	1,100,000 U	**2,400 J**	**21,000 J**	**7,500 J**	**18,000**	**23,000**	38,000 U	390,000 U	**12,000 J**	560,000 U	**270,000 J**	**41,000 J**	**18,000**	**220,000 J**	**2,400 J**	**290 J**	390,000 U
Benzo(g,h,i)perylene	ug/kg	**13,000**	**160,000 J**	**2,600 J**	**24,000 J**	**12,000 J**	**24,000**	**27,000**	**10,000 J**	**80,000 J**	**19,000**	**120,000 J**	**300,000 J**	**63,000**	**32,000 J**	**79,000 J**	**3,900 J**	**260 J**	390,000 U
Benzo(k)fluoranthene	ug/kg	**11,000 J**	**260,000 J**	**2,100 J**	**21,000 J**	**11,000 J**	**21,000**	**22,000**	**11,000 J**	**79,000 J**	**21,000**	560,000 U	**270,000 J**	**50,000**	**25,000**	460,000 U	**4,400**	**330 J**	390,000 U
Benzyl butyl phthalate	ug/kg	**3,700 J**	1,100,000 U	**720 J**	30,000 U	**3,700 J**	**2,400 J**	**3,200 J**	**10,000 J**	390,000 U	16,000 U	560,000 U	440,000 U	**120,000**	**1,500 J**	460,000 U	3,400 U	330 U	390,000 U
Bis(2-chloroethoxy) methane	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Bis(2-chloroethyl) ether	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**96,000**	1,100,000 U	**20,000**	**180,000**	**110,000**	**120,000**	**170,000**	**22,000 J**	390,000 U	**99,000**	560,000 U	440,000 U	**49,000**	**40,000 J**	460,000 U	**1,700 J**	**110 J**	390,000 U
Carbazole	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	**93,000 J**	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-31	GC-SED-31	GC-SED-32	GC-SED-32	GC-SED-33	GC-SED-34B	GC-SED-34B	GC-SED-35	GC-SED-35	GC-SED-36	GC-SED-36	GC-SED-37B	GC-SED-38	GC-SED-39	GC-SED-39	GC-SED-40	GC-SED-41	GC-SED-43
Sample Number:		GC-SED-31(2.5-4.5)	GC-SED-31(11.5-12.5)	GC-SED-32(0.5-1.5)	GC-SED-32(5.9-6.9)	GC-SED-33(1.5-3)	GC-SED-34B(2-3)	GC-SED-34B(5.8-6.8)	GC-SED-35(0-4.5)	GC-SED-35(8.8-10.8)	GC-SED-36(2.5-4.5)	GC-SED-36(8-9)	GC-SED-37B(7-8)	GC-SED-38(5.1-6.1)	GC-SED-39(1-2)	GC-SED-39(4.5-5.5)	GC-SED-40(2.5-3.5)	GC-SED-41(0-4.5)	GC-SED-43(2-3)
Sample Depth:		2.5-4.5	11.5-12.5	0.5-1.5	5.9-6.9	1.5-3	2-3	5.8-6.8	0-4.5	8.8-10.8	2.5-4.5	8-9	7-8	5.1-6.1	1-2	4.5-5.5	2.5-3.5	0-4.5	2-3
Sample Date:		1/16/2006	1/16/2006	1/16/2006	1/16/2006	1/17/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/16/2006	1/16/2006	12/22/2005	12/22/2005	1/8/2006	1/8/2006	1/17/2006	1/17/2006	1/23/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**28,000**	**570,000 J**	**4,300**	**62,000**	**21,000**	**53,000**	**65,000**	**30,000 J**	**250,000 J**	**38,000**	**520,000 J**	**670,000**	**140,000**	**59,000**	**500,000**	**10,000**	**1,000**	**410,000**
Dibenz(a,h)anthracene	ug/kg	**4,300 J**	1,100,000 U	**740 J**	**8,100 J**	**3,300 J**	**7,500 J**	**8,200 J**	38,000 U	390,000 U	**5,800 J**	560,000 U	**110,000 J**	**19,000 J**	**11,000**	460,000 U	**1,200 J**	**100 J**	390,000 U
Dibenzofuran	ug/kg	12,000 U	**200,000 J**	3,400 U	**8,200 J**	14,000 U	**2,800 J**	**5,700 J**	38,000 U	390,000 U	16,000 U	**190,000 J**	**280,000 J**	**13,000 J**	**2,500 J**	**80,000 J**	**930 J**	330 U	390,000 U
Diethyl phthalate	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Dimethyl phthalate	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Di-n-butyl phthalate	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Di-n-octylphthalate	ug/kg	**4,000 J**	1,100,000 U	3,400 U	**4,000 J**	**2,700 J**	**4,500 J**	**11,000 J**	38,000 U	390,000 U	**3,300 J**	560,000 U	440,000 U	47,000 U	**1,200 J**	460,000 U	3,400 U	330 U	390,000 U
Fluoranthene	ug/kg	**48,000**	**1,300,000**	**7,100**	**100,000**	**35,000**	**78,000**	**110,000**	**45,000**	**370,000 J**	**56,000**	**1,000,000**	**1,200,000**	**190,000**	**87,000**	**540,000**	**15,000**	**1,300**	**590,000**
Fluorene	ug/kg	**11,000 J**	**1,600,000**	**560 J**	**62,000**	**5,800 J**	**9,900 J**	**37,000**	**43,000**	**420,000**	**15,000 J**	**1,700,000**	**1,000,000**	**98,000**	9,400 U	**750,000**	**7,000**	**90 J**	**700,000**
Hexachlorobenzene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Hexachlorobutadiene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Hexachlorocyclopentadiene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Hexachloroethane	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**9,900 J**	1,100,000 U	**2,100 J**	**20,000 J**	**8,700 J**	**17,000**	**20,000**	**8,400 J**	**64,000 J**	**14,000 J**	**100,000 J**	**280,000 J**	**47,000**	**25,000**	**84,000 J**	**3,000 J**	**230 J**	**100,000 J**
Isophorone	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Naphthalene	ug/kg	**11,000 J**	**12,000,000**	**790 J**	**150,000**	**5,900 J**	**17,000**	**53,000**	**340,000**	**3,500,000**	**18,000**	**9,000,000**	**7,000,000**	**230,000**	**4,000 J**	**5,100,000**	**26,000**	**510**	**3,400,000**
Nitrobenzene	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
N-nitrosodi-n-propylamine	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
N-nitrosodiphenylamine	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Pentachlorophenol	ug/kg	56,000 U	5,400,000 U	16,000 U	140,000 U	67,000 U	64,000 U	75,000 U	190,000 U	1,900,000 U	79,000 UR	2,700,000 U	2,100,000 U	230,000 U	46,000 U	2,200,000 U	17,000 U	1,600 U	1,900,000 U
Phenanthrene	ug/kg	**63,000**	**4,300,000**	**3,000 J**	**230,000**	**32,000**	**83,000**	**180,000**	**130,000**	**1,200,000**	**66,000**	**4,100,000**	**3,400,000**	**400,000**	**54,000**	**2,100,000**	**21,000**	**290 J**	**2,000,000**
Phenol	ug/kg	12,000 U	1,100,000 U	3,400 U	30,000 U	14,000 U	13,000 U	15,000 U	38,000 U	390,000 U	16,000 U	560,000 U	440,000 U	47,000 U	9,400 U	460,000 U	3,400 U	330 U	390,000 U
Pyrene	ug/kg	**58,000**	**1,700,000**	**7,300**	**120,000**	**41,000**	**97,000**	**140,000**	**63,000**	**490,000**	**71,000 J**	**1,400,000**	**1,500,000**	**270,000**	**110,000**	**820,000**	**23,000**	**1,900**	**1,000,000**
Total PAHs	ug/kg	**375,500**	**35,710,000**	**44,290**	**1,270,100**	**251,600**	**622,400**	**1,003,200**	**1,072,400**	**10,203,000**	**477,800**	**31,200,000**	**24,500,000**	**2,389,000**	**622,000**	**16,383,000**	**173,700**	**9,250**	**13,070,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-43	GC-SED-44	GC-SED-44	GC-SED-45C	GC-SED-46C	GC-SED-46C	GC-SED-47	GC-SED-48	GC-SED-48	GC-SED-49	GC-SED-49	GC-SED-50B	GC-SED-51	GC-SED-51	GC-SED-52	GC-SED-53	GC-SED-54B	GC-SED-54B
Sample Number:		GC-SED-43(7.3-8.3)	GC-SED-44(0.5-2.5)	GC-SED-44(5.6-6.1)	GC-SED-45C(1-1.5)	GC-SED-46C(1.5-2.5)	GC-SED-46C(5-5.5)	GC-SED-47(1.5-2.5)	GC-SED-48(0.5-1.5)	GC-SED-48(5-5.8)	GC-SED-49(2.5-3.5)	GC-SED-49(5.4-5.9)	GC-SED-50(2-5)	GC-SED-51(0-1.5)	GC-SED-51(6.7-7.2)	GC-SED-52(3-6)	GC-SED-53(0.5-1.5)	GC-SED-54B(0-2)	GC-SED-54B(4.5-5.7)
Sample Depth:		7.3-8.3	0.5-2.5	5.6-6.1	1-1.5	1.5-2.5	5-5.5	1.5-2.5	0.5-1.5	5-5.8	2.5-3.5	5.4-5.9	2-5	0-1.5	6.7-7.2	3-6	0.5-1.5	0-2	4.5-5.7
Sample Date:		1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/26/2006	1/26/2006	1/26/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
2,4,6-trichlorophenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2,4-dichlorophenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2,4-dimethylphenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2,4-dinitrophenol	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
2,4-dinitrotoluene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2,6-dinitrotoluene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2-chloronaphthalene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2-chlorophenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2-methylnaphthalene	ug/kg	**4,400,000**	**1,600,000**	**4,100,000**	**6,700,000**	**500,000**	**5,600,000**	**1,600,000**	**660,000**	**4,100,000**	**4,000,000**	**1,500,000**	**6,500,000**	**500,000**	**9,100,000**	**3,500,000**	**680,000**	**5,400 J**	**5,500,000**
2-methylphenol (o-cresol)	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
2-nitroaniline	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
2-nitrophenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
3,3'-dichlorobenzidine	ug/kg	1,100,000 U	620,000 U	1,200,000 U	2,000,000 U	230,000 U	1,800,000 U	430,000 U	380,000 U	1,200,000 U	890,000 U	450,000 U	2,000,000 U	260,000 U	2,300,000 U	910,000 U	180,000 U	31,000 UJ	1,800,000 UJ
3-nitroaniline	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
4,6-dinitro-2-methylphenol	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
4-bromophenyl phenyl ether	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
4-chloro-3-methylphenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
4-chloroaniline	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
4-chlorophenyl phenyl ether	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
4-methylphenol (p-cresol)	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
4-nitroaniline	ug/kg	1,100,000 U	620,000 U	1,200,000 U	2,000,000 U	230,000 U	1,800,000 U	430,000 U	380,000 U	1,200,000 U	890,000 U	450,000 U	2,000,000 U	260,000 U	2,300,000 U	910,000 U	180,000 U	31,000 U	1,800,000 U
4-nitrophenol	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
Acenaphthene	ug/kg	**1,600,000**	**480,000**	**1,500,000**	**2,300,000**	**280,000**	**2,400,000**	**590,000**	**350,000**	**1,600,000**	**1,400,000**	**590,000**	**2,800,000**	**320,000**	**2,500,000**	**310,000 J**	**290,000**	**70,000**	**1,800,000**
Acenaphthylene	ug/kg	**520,000 J**	**380,000**	**340,000 J**	**1,100,000**	**96,000 J**	**370,000 J**	**150,000 J**	**110,000 J**	**190,000 J**	**410,000 J**	**130,000 J**	**540,000 J**	**94,000 J**	**1,200,000**	**220,000 J**	**93,000**	**23,000**	**480,000 J**
Anthracene	ug/kg	**840,000**	**370,000**	**730,000**	**2,000,000**	**230,000**	**1,100,000**	**370,000**	**280,000**	**1,100,000**	**930,000**	**350,000**	**1,400,000**	**270,000**	**1,800,000**	**680,000**	**230,000**	**62,000**	**970,000**
Benzo(a)anthracene	ug/kg	**470,000 J**	**220,000 J**	**460,000 J**	**690,000 J**	**210,000**	**590,000 J**	**170,000 J**	**230,000**	**410,000 J**	**670,000**	**140,000 J**	**630,000 J**	**190,000**	**880,000 J**	**480,000**	**160,000**	**52,000 J**	**560,000 J**
Benzo(a)pyrene	ug/kg	**370,000 J**	**130,000 J**	**320,000 J**	**460,000 J**	**130,000**	**400,000 J**	**110,000 J**	**140,000 J**	**250,000 J**	**370,000 J**	**110,000 J**	**480,000 J**	**130,000 J**	**630,000 J**	**320,000 J**	**110,000**	**38,000 J**	**390,000 J**
Benzo(b)fluoranthene	ug/kg	**260,000 J**	**100,000 J**	**220,000 J**	**320,000 J**	**100,000 J**	**310,000 J**	**78,000 J**	**120,000 J**	**270,000 J**	**270,000 J**	**85,000 J**	990,000 U	**120,000 J**	1,100,000 U	**240,000 J**	**94,000**	**31,000 J**	**280,000 J**
Benzo(g,h,i)perylene	ug/kg	**99,000 J**	**41,000 J**	**100,000 J**	980,000 U	**44,000 J**	920,000 U	**51,000 J**	**62,000 J**	**77,000 J**	**120,000 J**	**38,000 J**	**200,000 J**	**60,000 J**	**240,000 J**	**130,000 J**	**38,000 J**	**13,000 J**	**150,000 J**
Benzo(k)fluoranthene	ug/kg	**100,000 J**	**40,000 J**	**94,000 J**	**150,000 J**	**37,000 J**	920,000 U	**28,000 J**	**39,000 J**	610,000 U	**100,000 J**	**32,000 J**	**290,000 J**	**30,000 J**	**380,000 J**	**84,000 J**	**29,000 J**	**12,000 J**	910,000 U
Benzyl butyl phthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 UJ	910,000 UJ
Bis(2-chloroethoxy) methane	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Bis(2-chloroethyl) ether	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	**540,000**	920,000 U	**31,000 J**	**79,000 J**	610,000 U	450,000 U	220,000 U	990,000 U	**81,000 J**	1,100,000 U	460,000 U	**28,000 J**	**57,000 J**	910,000 UJ
Carbazole	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-43	GC-SED-44	GC-SED-44	GC-SED-45C	GC-SED-46C	GC-SED-46C	GC-SED-47	GC-SED-48	GC-SED-48	GC-SED-49	GC-SED-49	GC-SED-50B	GC-SED-51	GC-SED-51	GC-SED-52	GC-SED-53	GC-SED-54B	GC-SED-54B
Sample Number:		GC-SED-43(7.3-8.3)	GC-SED-44(0.5-2.5)	GC-SED-44(5.6-6.1)	GC-SED-45C(1-1.5)	GC-SED-46C(1.5-2.5)	GC-SED-46C(5-5.5)	GC-SED-47(1.5-2.5)	GC-SED-48(0.5-1.5)	GC-SED-48(5-5.8)	GC-SED-49(2.5-3.5)	GC-SED-49(5.4-5.9)	GC-SED-50(2-5)	GC-SED-51(0-1.5)	GC-SED-51(6.7-7.2)	GC-SED-52(3-6)	GC-SED-53(0.5-1.5)	GC-SED-54B(0-2)	GC-SED-54B(4.5-5.7)
Sample Depth:		7.3-8.3	0.5-2.5	5.6-6.1	1-1.5	1.5-2.5	5-5.5	1.5-2.5	0.5-1.5	5-5.8	2.5-3.5	5.4-5.9	2-5	0-1.5	6.7-7.2	3-6	0.5-1.5	0-2	4.5-5.7
Sample Date:		1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/26/2006	1/26/2006	1/26/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**610,000**	**230,000 J**	**530,000 J**	**850,000 J**	**200,000**	**680,000 J**	**210,000 J**	**240,000**	**460,000 J**	**660,000**	**200,000 J**	**740,000 J**	**210,000**	**1,100,000 J**	**600,000**	**190,000**	**58,000 J**	**610,000 J**
Dibenz(a,h)anthracene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	**13,000 J**	920,000 U	220,000 U	190,000 U	610,000 U	**62,000 J**	220,000 U	990,000 U	**17,000 J**	1,100,000 U	460,000 U	**13,000 J**	**3,700 J**	910,000 U
Dibenzofuran	ug/kg	540,000 U	310,000 U	**95,000 J**	**180,000 J**	**30,000 J**	920,000 U	**44,000 J**	190,000 U	**110,000 J**	**100,000 J**	**42,000 J**	990,000 U	**24,000 J**	**260,000 J**	**99,000 J**	**19,000 J**	**3,300 J**	910,000 U
Diethyl phthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Dimethyl phthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Di-n-butyl phthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Di-n-octylphthalate	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 UJ	910,000 U
Fluoranthene	ug/kg	**700,000**	**330,000**	**570,000 J**	**1,200,000**	**270,000**	**840,000 J**	**280,000**	**300,000**	**700,000**	**840,000**	**250,000**	**1,000,000**	**280,000**	**1,300,000**	**590,000**	**220,000**	**92,000**	**740,000 J**
Fluorene	ug/kg	**1,100,000**	**440,000**	**950,000**	**1,700,000**	**220,000**	**1,300,000**	**410,000**	**250,000**	**940,000**	**990,000**	**330,000**	**1,600,000**	**190,000**	**2,000,000**	**710,000**	**230,000**	**13,000 J**	**1,300,000**
Hexachlorobenzene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Hexachlorobutadiene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Hexachlorocyclopentadiene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Hexachloroethane	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**99,000 J**	**47,000 J**	**82,000 J**	**100,000 J**	**41,000 J**	**110,000 J**	**37,000 J**	**49,000 J**	610,000 U	**110,000 J**	**32,000 J**	**170,000 J**	**51,000 J**	**180,000 J**	**95,000 J**	**30,000 J**	**13,000 J**	**130,000 J**
Isophorone	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Naphthalene	ug/kg	**7,400,000**	**3,300,000**	**8,200,000**	**12,000,000**	**820,000**	**11,000,000**	**2,800,000**	**790,000**	**7,100,000**	**6,500,000**	**2,200,000**	**13,000,000**	**720,000**	**16,000,000**	**5,200,000**	**1,100,000**	**24,000**	**10,000,000**
Nitrobenzene	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
N-nitrosodi-n-propylamine	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
N-nitrosodiphenylamine	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Pentachlorophenol	ug/kg	2,600,000 U	1,500,000 U	2,800,000 U	4,800,000 U	560,000 U	4,500,000 U	1,100,000 U	920,000 U	3,000,000 U	2,200,000 U	1,100,000 U	4,800,000 U	640,000 U	5,500,000 U	2,200,000 U	440,000 U	74,000 U	4,400,000 U
Phenanthrene	ug/kg	**2,700,000**	**1,200,000**	**2,500,000**	**3,800,000**	**750,000**	**3,200,000**	**950,000**	**730,000**	**2,300,000**	**2,700,000**	**800,000**	**3,900,000**	**740,000**	**5,200,000**	**2,300,000**	**730,000**	**110,000**	**3,200,000**
Phenol	ug/kg	540,000 U	310,000 U	580,000 U	980,000 U	120,000 U	920,000 U	220,000 U	190,000 U	610,000 U	450,000 U	220,000 U	990,000 U	130,000 U	1,100,000 U	460,000 U	92,000 U	15,000 U	910,000 U
Pyrene	ug/kg	**1,200,000**	**570,000**	**1,300,000**	**1,100,000**	**580,000**	**1,600,000**	**320,000**	**440,000**	**1,200,000**	**1,300,000**	**340,000**	**1,900,000**	**490,000**	**2,500,000**	**1,200,000**	**430,000**	**150,000 J**	**1,400,000 J**
Total PAHs	ug/kg	**22,468,000**	**9,478,000**	**21,996,000**	**34,470,000**	**4,521,000**	**29,500,000**	**8,154,000**	**4,790,000**	**20,697,000**	**21,432,000**	**7,127,000**	**35,150,000**	**4,412,000**	**45,010,000**	**16,659,000**	**4,667,000**	**770,100**	**27,510,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-55	GC-SED-55	GC-SED-57	GC-SED-58C	GC-SED-59	GC-SED-60B	GC-SED-62C	GC-SED-62C	GC-SED-63	GC-SED-64D	GC-SED-65	GC-SED-67B	GC-SED-67B	GC-SED-68	GC-SED-68	GC-SED-69C	GC-SED-69C	GC-SED-71C
Sample Number:		GC-SED-55(1.5-2.5)	GC-SED-55(10-11)	GC-SED-57(7-9)	GC-SED-58C(0-5)	GC-SED-59(0.5-1)	GC-SED-60B(0-2.5)	GC-SED-62C(0-2)	GC-SED-62C(3-4)	GC-SED-63(3-3.5)	GC-SED-64D(2-4)	GC-SED-65(0.5-1.25)	GC-SED-67(0-1)	GC-SED-67(7-8)	GC-SED-68(0-1)	GC-SED-68(2.2-3.1)	GC-SED-69(0-1)	GC-SED-69(6-7)	GC-SED-71C(1.5-2.5)
Sample Depth:		1.5-2.5	10-11	7-9	0-5	0.5-1	0-2.5	0-2	3-4	3-3.5	2-4	0.5-1.25	0-1	7-8	0-1	2.2-3.1	0-1	6-7	1.5-2.5
Sample Date:		1/24/2006	1/24/2006	1/26/2006	1/27/2006	1/22/2006	1/21/2006	1/21/2006	1/21/2006	12/20/2005	1/11/2006	1/22/2006	12/17/2005	12/17/2005	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/29/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
2,4,6-trichlorophenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
2,4-dichlorophenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
2,4-dimethylphenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
2,4-dinitrophenol	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
2,4-dinitrotoluene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
2,6-dinitrotoluene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
2-chloronaphthalene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
2-chlorophenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
2-methylnaphthalene	ug/kg	**5,300 J**	**63,000**	**45,000**	**2,400,000**	**1,100,000**	**160,000**	**16,000 J**	**2,400,000**	**100,000**	**1,200,000**	**1,400,000**	**930 J**	**2,700,000**	**2,300 J**	**1,900,000**	**2,700 J**	**41,000 J**	**87,000**
2-methylphenol (o-cresol)	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
2-nitroaniline	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
2-nitrophenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
3,3'-dichlorobenzidine	ug/kg	60,000 U	20,000 U	31,000 U	650,000 U	800,000 U	180,000 U	34,000 UJ	880,000 U	90,000 U	630,000 U	600,000 U	3,700 U	830,000 U	7,700 U	790,000 U	14,000 U	15,000 U	41,000 U
3-nitroaniline	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
4,6-dinitro-2-methylphenol	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
4-bromophenyl phenyl ether	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
4-chloro-3-methylphenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
4-chloroaniline	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
4-chlorophenyl phenyl ether	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
4-methylphenol (p-cresol)	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	**1,500 J**	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
4-nitroaniline	ug/kg	60,000 U	20,000 U	31,000 U	650,000 U	800,000 U	180,000 U	34,000 U	880,000 U	90,000 U	630,000 U	600,000 U	3,700 U	830,000 U	7,700 U	790,000 U	14,000 U	15,000 U	41,000 U
4-nitrophenol	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
Acenaphthene	ug/kg	**53,000**	**45,000**	**70,000**	**1,000,000**	**740,000**	**170,000**	**38,000**	**1,200,000**	**71,000**	**780,000**	**120,000 J**	**2,200**	**1,000,000**	**5,300**	**670,000**	**7,600**	**32,000**	**39,000**
Acenaphthylene	ug/kg	**27,000 J**	**13,000**	**22,000**	**120,000 J**	**350,000 J**	**97,000**	**24,000**	**110,000 J**	**26,000 J**	**110,000 J**	**480,000**	**3,200**	**220,000 J**	**5,800**	**170,000 J**	**7,800**	**5,900 J**	**8,900 J**
Anthracene	ug/kg	**96,000**	**47,000**	**100,000**	**730,000**	**580,000**	**190,000**	**49,000**	**550,000**	**62,000**	**370,000**	**210,000 J**	**3,600**	**450,000**	**10,000**	**310,000 J**	**10,000**	**20,000**	**25,000**
Benzo(a)anthracene	ug/kg	**88,000**	**38,000**	**77,000**	**200,000 J**	**450,000**	**200,000**	**52,000 J**	**270,000 J**	**56,000**	**260,000 J**	**200,000 J**	**8,700**	**350,000 J**	**19,000**	**210,000 J**	**18,000**	**13,000**	**23,000**
Benzo(a)pyrene	ug/kg	**66,000**	**28,000**	**59,000**	**120,000 J**	**340,000 J**	**140,000**	**38,000 J**	**190,000 J**	**40,000 J**	**190,000 J**	**140,000 J**	**8,000**	**240,000 J**	**16,000**	**110,000 J**	**17,000**	**10,000**	**16,000 J**
Benzo(b)fluoranthene	ug/kg	**52,000**	**19,000**	**48,000**	**110,000 J**	400,000 U	**110,000**	**30,000 J**	**140,000 J**	**33,000 J**	**150,000 J**	**130,000 J**	**8,500**	**190,000 J**	**15,000**	400,000 U	**10,000**	**4,600 J**	**14,000 J**
Benzo(g,h,i)perylene	ug/kg	**39,000**	**15,000**	**25,000**	330,000 U	**110,000 J**	**53,000 J**	**14,000 J**	440,000 U	**14,000 J**	**67,000 J**	**58,000 J**	**3,800 J**	**80,000 J**	**6,100**	**68,000 J**	**12,000**	**5,700 J**	**6,300 J**
Benzo(k)fluoranthene	ug/kg	**18,000 J**	**8,900 J**	**16,000**	330,000 U	400,000 U	**44,000 J**	**11,000 J**	**71,000 J**	**10,000 J**	310,000 U	300,000 U	1,800 U	**62,000 J**	**4,600**	400,000 U	**8,900**	**5,100 J**	**4,000 J**
Benzyl butyl phthalate	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 UJ	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Bis(2-chloroethoxy) methane	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
Bis(2-chloroethyl) ether	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**42,000**	**56,000**	**49,000**	330,000 U	400,000 U	**140,000**	**47,000 J**	440,000 U	**43,000 J**	310,000 U	300,000 U	**18,000**	410,000 U	**26,000**	400,000 U	**35,000**	7,600 U	**18,000 J**
Carbazole	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	**600 J**	410,000 U	**1,000 J**	400,000 U	**1,100 J**	7,600 U	20,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-55	GC-SED-55	GC-SED-57	GC-SED-58C	GC-SED-59	GC-SED-60B	GC-SED-62C	GC-SED-62C	GC-SED-63	GC-SED-64D	GC-SED-65	GC-SED-67B	GC-SED-67B	GC-SED-68	GC-SED-68	GC-SED-69C	GC-SED-69C	GC-SED-71C
Sample Number:		GC-SED-55(1.5-2.5)	GC-SED-55(10-11)	GC-SED-57(7-9)	GC-SED-58C(0-5)	GC-SED-59(0.5-1)	GC-SED-60B(0-2.5)	GC-SED-62C(0-2)	GC-SED-62C(3-4)	GC-SED-63(3-3.5)	GC-SED-64D(2-4)	GC-SED-65(0.5-1.25)	GC-SED-67(0-1)	GC-SED-67(7-8)	GC-SED-68(0-1)	GC-SED-68(2.2-3.1)	GC-SED-69(0-1)	GC-SED-69(6-7)	GC-SED-71C(1.5-2.5)
Sample Depth:		1.5-2.5	10-11	7-9	0-5	0.5-1	0-2.5	0-2	3-4	3-3.5	2-4	0.5-1.25	0-1	7-8	0-1	2.2-3.1	0-1	6-7	1.5-2.5
Sample Date:		1/24/2006	1/24/2006	1/26/2006	1/27/2006	1/22/2006	1/21/2006	1/21/2006	1/21/2006	12/20/2005	1/11/2006	1/22/2006	12/17/2005	12/17/2005	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/29/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**100,000**	**41,000**	**80,000**	**190,000 J**	**490,000**	**220,000**	**54,000 J**	**280,000 J**	**60,000**	**240,000 J**	**220,000 J**	**8,300**	**430,000**	**21,000**	**260,000 J**	**21,000**	**15,000**	**21,000**
Dibenz(a,h)anthracene	ug/kg	**15,000 J**	**5,800 J**	**6,300 J**	330,000 U	400,000 U	88,000 U	**4,000 J**	440,000 U	45,000 U	310,000 U	300,000 U	**1,300 J**	410,000 U	**1,900 J**	400,000 U	**3,600 J**	**2,100 J**	20,000 UJ
Dibenzofuran	ug/kg	30,000 U	**3,200 J**	**4,900 J**	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	**740 J**	410,000 U	**1,500 J**	400,000 U	**2,500 J**	**2,300 J**	**3,300 J**
Diethyl phthalate	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Dimethyl phthalate	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Di-n-butyl phthalate	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Di-n-octylphthalate	ug/kg	30,000 U	**3,300 J**	**1,700 J**	330,000 U	400,000 U	88,000 U	17,000 UJ	440,000 U	45,000 U	310,000 U	300,000 U	**200 J**	410,000 U	**1,700 J**	400,000 U	**1,600 J**	7,600 U	20,000 U
Fluoranthene	ug/kg	**130,000**	**55,000**	**160,000**	**350,000**	**590,000**	**220,000**	**73,000**	**430,000 J**	**79,000**	**400,000**	**270,000 J**	**17,000**	**520,000**	**40,000**	**320,000 J**	**38,000**	**21,000**	**32,000**
Fluorene	ug/kg	**18,000 J**	**31,000**	**35,000**	**510,000**	**450,000**	**120,000**	**19,000**	**570,000**	**45,000 J**	**410,000**	**380,000**	**1,700 J**	**580,000**	**2,300 J**	**330,000 J**	**4,400 J**	**17,000**	**24,000**
Hexachlorobenzene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Hexachlorobutadiene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UR	7,600 UR	20,000 U
Hexachlorocyclopentadiene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 U	7,600 U	20,000 U
Hexachloroethane	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UR	7,600 UR	20,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**33,000**	**12,000**	**21,000**	**34,000 J**	**90,000 J**	**48,000 J**	**13,000 J**	440,000 U	**14,000 J**	**47,000 J**	**45,000 J**	**3,300**	**69,000 J**	**6,100**	**55,000 J**	**9,900**	**4,600 J**	**6,300 J**
Isophorone	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
Naphthalene	ug/kg	**11,000 J**	**71,000**	**52,000**	**3,900,000**	**2,500,000**	**170,000**	**32,000**	**5,100,000**	**150,000**	**3,100,000**	**2,100,000**	**1,900**	**4,100,000**	**4,900**	**3,200,000**	**5,700 J**	**50,000 J**	**150,000**
Nitrobenzene	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
N-nitrosodi-n-propylamine	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
N-nitrosodiphenylamine	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	**2,500 J**	400,000 U	7,100 U	7,600 U	20,000 U
Pentachlorophenol	ug/kg	140,000 U	48,000 U	74,000 U	1,600,000 U	1,900,000 U	430,000 U	83,000 U	2,100,000 U	220,000 U	1,500,000 U	1,500,000 U	8,900 U	2,000,000 U	19,000 U	1,900,000 U	34,000 U	37,000 U	98,000 U
Phenanthrene	ug/kg	**130,000**	**110,000**	**210,000**	**1,400,000**	**1,600,000**	**570,000**	**83,000**	**1,700,000**	**200,000**	**1,500,000**	**800,000**	**7,000**	**1,900,000**	**14,000**	**1,100,000**	**24,000**	**62,000**	**74,000**
Phenol	ug/kg	30,000 U	10,000 U	15,000 U	330,000 U	400,000 U	88,000 U	17,000 U	440,000 U	45,000 U	310,000 U	300,000 U	1,800 U	410,000 U	3,800 U	400,000 U	7,100 UJ	7,600 UJ	20,000 U
Pyrene	ug/kg	**180,000**	**83,000**	**220,000**	**620,000**	**1,000,000**	**490,000**	**120,000 J**	**770,000**	**140,000**	**720,000**	**410,000**	**17,000**	**1,000,000**	**50,000**	**630,000**	**41,000**	**31,000**	**37,000**
Total PAHs	ug/kg	**1,061,300**	**685,700**	**1,246,300**	**11,684,000**	**10,390,000**	**3,002,000**	**670,000**	**13,781,000**	**1,100,000**	**9,544,000**	**6,963,000**	**96,430**	**13,891,000**	**224,300**	**9,333,000**	**241,600**	**340,000**	**567,500**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-71C	GC-SED-72B	GC-SED-72B	GC-SED-73E	GC-SED-74	GC-SED-75C	GC-SED-75C	GC-SED-76C	GC-SED-77	GC-SED-77	GC-SED-78B	GC-SED-78B	GC-SED-79	GC-SED-80	GC-SED-81	GC-SED-81	GC-SED-82	GC-SED-82
Sample Number:		GC-SED-71C(2.5-4.0)	GC-SED-72(0-2)	GC-SED-72(5.5-7)	GC-SED-73E(1.0-2.5)	GC-SED-74(5.3-6.3)	GC-SED-75C(0-0.7)	GC-SED-75C(0.7-1.5)	GC-SED-76C(2.5-3.4)	GC-SED-77(0-3)	GC-SED-77(14.5-15.4)	GC-SED-78B(0-1)	GC-SED-78B(2.5-5)	GC-SED-79(2.5-3.5)	GC-SED-80(0-2)	GC-SED-81(8-11)	GC-SED-81(13-13.5)	GC-SED-82(0-2)	GC-SED-82(12-12.8)
Sample Depth:		2.5-4	0-2	5.5-7	1-2.5	5.3-6.3	0-0.7	0.7-1.5	2.5-3.4	0-3	14.5-15.4	0-1	2.5-5	2.5-3.5	0-2	8-11	13-13.5	0-2	12-12.8
Sample Date:		1/29/2006	12/18/2005	12/18/2005	1/29/2006	1/29/2006	1/25/2006	1/25/2006	1/25/2006	1/30/2006	1/30/2006	1/25/2006	1/25/2006	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/30/2006	1/30/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
2,4,6-trichlorophenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
2,4-dichlorophenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
2,4-dimethylphenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
2,4-dinitrophenol	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 UJ	210,000 UJ	17,000 UJ	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 UJ
2,4-dinitrotoluene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
2,6-dinitrotoluene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
2-chloronaphthalene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
2-chlorophenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
2-methylnaphthalene	ug/kg	**380,000 J**	**70 J**	**13,000**	3,800 U	82,000 U	3,800 U	360 U	**820 J**	**430 J**	**330,000**	3,500 U	**6,700 J**	**62,000**	**3,000 J**	**54,000 J**	370 UJ	**27,000 J**	**490,000**
2-methylphenol (o-cresol)	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
2-nitroaniline	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
2-nitrophenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
3,3'-dichlorobenzidine	ug/kg	160,000 U	700 U	23,000 U	7,600 U	160,000 U	7,600 U	720 U	5,800 U	3,600 U	87,000 U	7,000 U	29,000 U	37,000 U	18,000 U	38,000 U	740 UJ	110,000 U	82,000 U
3-nitroaniline	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
4,6-dinitro-2-methylphenol	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
4-bromophenyl phenyl ether	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
4-chloro-3-methylphenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
4-chloroaniline	ug/kg	79,000 U	350 U	**5,500 J**	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
4-chlorophenyl phenyl ether	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
4-methylphenol (p-cresol)	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
4-nitroaniline	ug/kg	160,000 U	700 U	23,000 U	7,600 U	160,000 U	7,600 U	720 U	5,800 U	3,600 U	87,000 U	7,000 U	29,000 U	37,000 U	18,000 U	38,000 U	740 UJ	110,000 U	82,000 U
4-nitrophenol	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
Acenaphthene	ug/kg	**160,000**	**70 J**	**13,000**	3,800 U	82,000 U	**830 J**	360 U	**2,000 J**	**640 J**	**230,000**	**1,400 J**	**24,000**	**38,000**	**4,600 J**	**46,000**	370 UJ	**160,000**	**210,000**
Acenaphthylene	ug/kg	**36,000 J**	**130 J**	**11,000 J**	**5,700**	**13,000 J**	**2,100 J**	**140 J**	**2,800 J**	**2,000**	**34,000 J**	**2,100 J**	**4,400 J**	**11,000 J**	**3,800 J**	**9,500 J**	370 UJ	**43,000 J**	**55,000**
Anthracene	ug/kg	**82,000**	**110 J**	**27,000**	**8,300**	**56,000 J**	**1,800 J**	**70 J**	**3,400**	**2,800**	**140,000**	**2,300 J**	**17,000**	**34,000**	**7,600 J**	**49,000**	370 UJ	**120,000**	**110,000**
Benzo(a)anthracene	ug/kg	**51,000 J**	**340 J**	**33,000 J**	**17,000**	**47,000 J**	**5,100**	**280 J**	**11,000**	**5,600**	**97,000**	**7,000**	**22,000**	**34,000**	**12,000**	**39,000**	370 UJ	**96,000**	**83,000**
Benzo(a)pyrene	ug/kg	**38,000 J**	**330 J**	**26,000 J**	**14,000**	**40,000 J**	**4,200**	**500**	**9,800**	**6,300**	**75,000**	**5,300**	**14,000 J**	**26,000**	**8,700 J**	**31,000**	370 UJ	**65,000**	**65,000**
Benzo(b)fluoranthene	ug/kg	79,000 U	**330 J**	**22,000**	**11,000**	**33,000 J**	**3,600 J**	**360 J**	**9,800**	**6,000**	**60,000**	**6,300**	**15,000**	**21,000**	**7,400 J**	**23,000**	370 UJ	**54,000 J**	**46,000**
Benzo(g,h,i)perylene	ug/kg	**27,000 J**	**140 J**	**10,000 J**	**6,500 J**	**19,000 J**	**2,800 J**	**220 J**	**5,700**	**3,300**	**37,000 J**	**3,000 J**	**6,600 J**	**10,000 J**	**4,000 J**	**12,000 J**	370 UJ	**43,000 J**	**33,000 J**
Benzo(k)fluoranthene	ug/kg	79,000 U	**100 J**	**8,300 J**	**3,600 J**	**11,000 J**	**1,900 J**	**150 J**	**3,400**	**1,900**	**19,000 J**	**2,400 J**	**5,200 J**	**6,300 J**	**3,300 J**	**7,700 J**	370 UJ	**19,000 J**	**16,000 J**
Benzyl butyl phthalate	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Bis(2-chloroethoxy) methane	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
Bis(2-chloroethyl) ether	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	79,000 U	**480**	**140,000**	**16,000**	**63,000 J**	**7,800**	**160 J**	**30,000**	**11,000**	43,000 U	**9,000**	**55,000**	**4,300 J**	**78,000**	19,000 U	370 UJ	56,000 U	41,000 U
Carbazole	ug/kg	79,000 U	350 U	11,000 U	**690 J**	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-71C	GC-SED-72B	GC-SED-72B	GC-SED-73E	GC-SED-74	GC-SED-75C	GC-SED-75C	GC-SED-76C	GC-SED-77	GC-SED-77	GC-SED-78B	GC-SED-78B	GC-SED-79	GC-SED-80	GC-SED-81	GC-SED-81	GC-SED-82	GC-SED-82
Sample Number:		GC-SED-71C(2.5-4.0)	GC-SED-72(0-2)	GC-SED-72(5.5-7)	GC-SED-73E(1.0-2.5)	GC-SED-74(5.3-6.3)	GC-SED-75C(0-0.7)	GC-SED-75C(0.7-1.5)	GC-SED-76C(2.5-3.4)	GC-SED-77(0-3)	GC-SED-77(14.5-15.4)	GC-SED-78B(0-1)	GC-SED-78B(2.5-5)	GC-SED-79(2.5-3.5)	GC-SED-80(0-2)	GC-SED-81(8-11)	GC-SED-81(13-13.5)	GC-SED-82(0-2)	GC-SED-82(12-12.8)
Sample Depth:		2.5-4	0-2	5.5-7	1-2.5	5.3-6.3	0-0.7	0.7-1.5	2.5-3.4	0-3	14.5-15.4	0-1	2.5-5	2.5-3.5	0-2	8-11	13-13.5	0-2	12-12.8
Sample Date:		1/29/2006	12/18/2005	12/18/2005	1/29/2006	1/29/2006	1/25/2006	1/25/2006	1/25/2006	1/30/2006	1/30/2006	1/25/2006	1/25/2006	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/30/2006	1/30/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**61,000 J**	**310 J**	**34,000 J**	**16,000**	**49,000 J**	**5,100**	**230 J**	**10,000**	**5,800**	**92,000**	**7,200**	**22,000**	**37,000**	**13,000**	**44,000**	370 UJ	**110,000**	**96,000**
Dibenz(a,h)anthracene	ug/kg	**9,200 J**	350 U	**2,500 J**	**1,900 J**	82,000 UJ	**770 J**	**70 J**	**1,300 J**	**850 J**	**8,600 J**	**700 J**	14,000 U	**3,200 J**	**1,100 J**	19,000 U	370 UJ	**11,000 J**	**8,300 J**
Dibenzofuran	ug/kg	79,000 U	350 U	11,000 U	**1,200 J**	82,000 U	3,800 U	360 U	2,900 U	1,800 U	**27,000 J**	3,500 U	**12,000 J**	**4,200 J**	9,200 U	**6,800 J**	370 UJ	**14,000 J**	**20,000 J**
Diethyl phthalate	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Dimethyl phthalate	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Di-n-butyl phthalate	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Di-n-octylphthalate	ug/kg	79,000 U	350 U	**14,000**	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Fluoranthene	ug/kg	**79,000**	**490**	**58,000 J**	**25,000**	**76,000 J**	**11,000**	**290 J**	**25,000**	**8,700**	**150,000**	**17,000**	**73,000**	**52,000**	**19,000**	**73,000**	370 UJ	**130,000**	**100,000**
Fluorene	ug/kg	**100,000**	**50 J**	**11,000 J**	**2,500 J**	**39,000 J**	**580 J**	360 U	**760 J**	**630 J**	**150,000**	**490 J**	**17,000**	**23,000**	**2,700 J**	**30,000**	370 UJ	**86,000**	**150,000**
Hexachlorobenzene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Hexachlorobutadiene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UR	370 UJ	56,000 U	41,000 U
Hexachlorocyclopentadiene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Hexachloroethane	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UR	370 UJ	56,000 U	41,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**19,000 J**	**120 J**	**11,000 J**	**5,900**	**17,000 J**	**2,200 J**	**190 J**	**4,700**	**2,700**	**27,000 J**	**2,600 J**	**5,700 J**	**8,500 J**	**4,000 J**	**9,800 J**	370 UJ	**31,000 J**	**21,000 J**
Isophorone	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
Naphthalene	ug/kg	**600,000 J**	**90 J**	**19,000**	3,800 U	**650,000**	3,800 U	**80 J**	**2,200 J**	**720 J**	**360,000**	**700 J**	**7,400 J**	**140,000**	**6,500 J**	**130,000 J**	370 UJ	**68,000**	**610,000**
Nitrobenzene	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
N-nitrosodi-n-propylamine	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
N-nitrosodiphenylamine	ug/kg	79,000 U	350 U	**16,000**	3,800 U	82,000 U	3,800 U	360 U	**1,200 J**	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 U	370 UJ	56,000 U	41,000 U
Pentachlorophenol	ug/kg	380,000 U	1,700 U	55,000 U	18,000 U	400,000 U	18,000 U	1,700 U	14,000 U	8,600 U	210,000 U	17,000 U	70,000 U	90,000 U	45,000 U	91,000 U	1,800 UJ	270,000 U	200,000 U
Phenanthrene	ug/kg	**280,000 J**	**200 J**	**75,000 J**	**11,000**	**140,000**	**1,800 J**	**60 J**	**2,900 J**	**4,800**	**400,000**	**1,700 J**	**62,000**	**120,000**	**11,000**	**160,000**	**60 J**	**330,000**	**370,000**
Phenol	ug/kg	79,000 U	350 U	11,000 U	3,800 U	82,000 U	3,800 U	360 U	2,900 U	1,800 U	43,000 U	3,500 U	14,000 U	18,000 U	9,200 U	19,000 UJ	370 UJ	56,000 U	41,000 U
Pyrene	ug/kg	**130,000**	**1,100**	**84,000**	**27,000**	**110,000**	**11,000**	**1,100**	**28,000**	**12,000**	**210,000**	**16,000**	**64,000**	**100,000**	**28,000**	**120,000**	**60 J**	**240,000**	**180,000**
Total PAHs	ug/kg	**2,052,200**	**3,980**	**457,800**	**155,400**	**1,300,000**	**54,780**	**3,740**	**123,580**	**65,170**	**2,419,600**	**76,190**	**366,000**	**726,000**	**139,700**	**838,000**	**120**	**1,633,000**	**2,643,300**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-83	GC-SED-83	GC-SED-84	GC-SED-85B	GC-SED-85B	GC-SED-86	GC-SED-87	GC-SED-88	GC-SED-89B	GC-SED-90B	GC-SED-91	GC-SED-92	GC-SED-93	GC-SED-94	GC-SED-95	GC-SED-96	GC-SED-97	GC-SED-97
Sample Number:		GC-SED-83(0-2)	GC-SED-83(11-11.9)	GC-SED-84(1-2)	GC-SED-85B(0-1)	GC-SED-85B(8.5-9.3)	GC-SED-86(0-1)	GC-SED-87(4.4-6.2)	GC-SED-88(0.5-1)	GC-SED-89(1.8-2.3)	GC-SED-90B(0-1)	GC-SED-91(4.7-6.2)	GC-SED-92(0-2)	GC-SED-93(0-1)	GC-SED-94(0.5-1.25)	GC-SED-95(3.5-4.5)	GC-SED-96(0-1)	GC-SED-97(0.5-2.0)	GC-SED-97(8.5-9.0)
Sample Depth:		0-2	11-11.9	1-2	0-1	8.5-9.3	0-1	4.4-6.2	0.5-1	1.8-2.3	0-1	4.7-6.2	0-2	0-1	0.5-1.25	3.5-4.5	0-1	0.5-2	8.5-9
Sample Date:		1/30/2006	1/30/2006	12/15/2005	12/16/2005	12/16/2005	12/15/2005	12/15/2005	12/14/2005	12/14/2005	12/14/2005	1/22/2006	12/16/2005	12/16/2005	12/20/2005	12/15/2005	12/15/2005	1/28/2006	1/28/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
2,4,5-trichlorophenol	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
2,4,6-trichlorophenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2,4-dichlorophenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2,4-dimethylphenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2,4-dinitrophenol	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
2,4-dinitrotoluene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2,6-dinitrotoluene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2-chloronaphthalene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2-chlorophenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2-methylnaphthalene	ug/kg	6,600 U	**9,500**	**1,700 J**	**1,500 J**	**140,000**	**15,000 J**	**10,000 J**	**4,400 J**	**81,000**	**53,000 J**	**27,000**	**4,400 J**	460,000 UJ	**8,100 J**	**96,000**	**610 J**	**3,500 J**	**970,000**
2-methylphenol (o-cresol)	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	88,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
2-nitroaniline	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
2-nitrophenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
3,3'-dichlorobenzidine	ug/kg	13,000 U	13,000 U	14,000 U	9,800 U	66,000 U	54,000 U	40,000 U	21,000 U	35,000 U	170,000 U	37,000 U	49,000 UJ	930,000 UJ	23,000 U	21,000 U	6,600 U	14,000 U	510,000 U
3-nitroaniline	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
4,6-dinitro-2-methylphenol	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
4-bromophenyl phenyl ether	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
4-chloro-3-methylphenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
4-chloroaniline	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	**8,800 J**	20,000 U	10,000 U	**9,100 J**	84,000 U	19,000 U	24,000 UJ	460,000 UJ	**4,800 J**	10,000 U	3,300 U	**2,400 J**	250,000 U
4-chlorophenyl phenyl ether	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
4-methylphenol (p-cresol)	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
4-nitroaniline	ug/kg	13,000 U	13,000 U	14,000 U	9,800 U	66,000 U	54,000 U	40,000 U	21,000 U	35,000 U	170,000 U	37,000 U	49,000 UJ	930,000 UJ	23,000 U	21,000 U	6,600 U	14,000 U	510,000 U
4-nitrophenol	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
Acenaphthene	ug/kg	**2,300 J**	**13,000**	**5,100 J**	**5,600 J**	**93,000**	**34,000**	**32,000**	**38,000**	**80,000**	**210,000**	**59,000**	**26,000 J**	460,000 UJ	**58,000**	**68,000**	**1,200 J**	**19,000**	**430,000**
Acenaphthylene	ug/kg	**2,400 J**	**4,100 J**	**4,100 J**	**4,300 J**	**34,000**	**32,000**	**23,000**	**18,000**	**36,000**	**78,000 J**	**17,000 J**	**18,000 J**	460,000 UJ	**46,000**	**12,000**	**1,500 J**	**15,000**	**89,000 J**
Anthracene	ug/kg	**4,400 J**	**12,000**	**9,000**	**9,500**	**120,000**	**63,000**	**51,000**	**46,000**	**66,000**	**250,000**	**49,000**	**34,000 J**	460,000 UJ	**74,000**	**36,000**	**2,500 J**	**30,000 J**	**230,000 J**
Benzo(a)anthracene	ug/kg	**9,800**	**14,000**	**15,000**	**15,000**	**100,000**	**61,000**	**67,000**	**50,000**	**54,000**	**170,000**	**47,000**	**46,000 J**	**68,000 J**	**88,000**	**26,000**	**5,500**	**36,000**	**200,000 J**
Benzo(a)pyrene	ug/kg	**7,900**	**9,700**	**13,000**	**12,000**	**71,000**	**53,000**	**40,000 J**	**34,000**	**40,000**	**140,000**	**29,000**	**32,000 J**	460,000 UJ	**55,000**	**18,000**	**4,500**	**29,000**	**110,000 J**
Benzo(b)fluoranthene	ug/kg	**6,800**	**7,900**	**13,000**	**10,000**	**63,000**	**40,000**	**33,000 J**	**26,000**	**31,000**	**100,000**	**29,000**	**29,000 J**	460,000 UJ	**42,000**	**11,000**	**4,800**	**22,000**	**130,000 J**
Benzo(g,h,i)perylene	ug/kg	**5,900 J**	**5,900 J**	**5,400 J**	**3,300 J**	**31,000 J**	**34,000 J**	**21,000 J**	**24,000 J**	**18,000**	**61,000 J**	**9,700 J**	**14,000 J**	460,000 UJ	**33,000**	**8,900 J**	**2,100 J**	**12,000**	250,000 U
Benzo(k)fluoranthene	ug/kg	**2,800 J**	**2,700 J**	**3,700 J**	**3,000 J**	**26,000 J**	**26,000 J**	**16,000 J**	**12,000**	**11,000 J**	**40,000 J**	**8,800 J**	**10,000 J**	460,000 UJ	**13,000**	**5,800 J**	**1,600 J**	**6,900**	250,000 U
Benzyl butyl phthalate	ug/kg	6,600 U	6,300 U	**1,800 J**	**2,500 J**	33,000 U	**7,800 J**	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	**4,300 J**	460,000 UJ	11,000 U	10,000 U	**11,000**	**3,000 J**	250,000 U
Bis(2-chloroethoxy) methane	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Bis(2-chloroethyl) ether	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**15,000**	**28,000**	**58,000**	**65,000**	**89,000**	**220,000**	**120,000**	**49,000**	**170,000**	**71,000 J**	**80,000**	**180,000 J**	**2,800,000 J**	**100,000**	**53,000**	**50,000**	**91,000**	250,000 U
Carbazole	ug/kg	6,600 U	6,300 U	6,900 U	**730 J**	**5,500 J**	27,000 U	**3,000 J**	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	**1,100 J**	250,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-83	GC-SED-83	GC-SED-84	GC-SED-85B	GC-SED-85B	GC-SED-86	GC-SED-87	GC-SED-88	GC-SED-89B	GC-SED-90B	GC-SED-91	GC-SED-92	GC-SED-93	GC-SED-94	GC-SED-95	GC-SED-96	GC-SED-97	GC-SED-97
Sample Number:		GC-SED-83(0-2)	GC-SED-83(11-11.9)	GC-SED-84(1-2)	GC-SED-85B(0-1)	GC-SED-85B(8.5-9.3)	GC-SED-86(0-1)	GC-SED-87(4.4-6.2)	GC-SED-88(0.5-1)	GC-SED-89(1.8-2.3)	GC-SED-90B(0-1)	GC-SED-91(4.7-6.2)	GC-SED-92(0-2)	GC-SED-93(0-1)	GC-SED-94(0.5-1.25)	GC-SED-95(3.5-4.5)	GC-SED-96(0-1)	GC-SED-97(0.5-2.0)	GC-SED-97(8.5-9.0)
Sample Depth:		0-2	11-11.9	1-2	0-1	8.5-9.3	0-1	4.4-6.2	0.5-1	1.8-2.3	0-1	4.7-6.2	0-2	0-1	0.5-1.25	3.5-4.5	0-1	0.5-2	8.5-9
Sample Date:		1/30/2006	1/30/2006	12/15/2005	12/16/2005	12/16/2005	12/15/2005	12/15/2005	12/14/2005	12/14/2005	12/14/2005	1/22/2006	12/16/2005	12/16/2005	12/20/2005	12/15/2005	12/15/2005	1/28/2006	1/28/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**																	
Chrysene	ug/kg	**11,000**	**16,000**	**17,000**	**16,000**	**110,000**	**63,000**	**58,000**	**48,000**	**61,000**	**190,000**	**48,000**	**52,000 J**	**70,000 J**	**75,000**	**24,000**	**6,200**	**36,000 J**	**210,000 J**
Dibenz(a,h)anthracene	ug/kg	**1,400 J**	**1,500 J**	**1,400 J**	**1,200 J**	**7,700 J**	**8,900 J**	**8,500 J**	**6,300 J**	**5,700 J**	**16,000 J**	19,000 U	**3,700 J**	460,000 UJ	**9,700 J**	**2,100 J**	**640 J**	**3,700 J**	250,000 U
Dibenzofuran	ug/kg	6,600 U	**1,800 J**	6,900 U	4,900 U	**11,000 J**	**4,300 J**	**5,200 J**	**2,900 J**	**6,200 J**	**17,000 J**	19,000 U	24,000 UJ	460,000 UJ	**5,000 J**	**4,100 J**	3,300 U	**1,800 J**	250,000 U
Diethyl phthalate	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	**9,600 J**	**170,000 J**	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Dimethyl phthalate	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Di-n-butyl phthalate	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Di-n-octylphthalate	ug/kg	6,600 U	6,300 U	**2,100 J**	**2,100 J**	33,000 U	**11,000 J**	20,000 U	10,000 U	**6,700 J**	84,000 U	**4,000 J**	**9,700 J**	460,000 UJ	**9,100 J**	**1,300 J**	**880 J**	**3,500 J**	250,000 U
Fluoranthene	ug/kg	**15,000**	**20,000**	**30,000**	**29,000**	**180,000**	**110,000**	**75,000**	**66,000**	**93,000**	**290,000**	**72,000**	**82,000 J**	**90,000 J**	**88,000**	**45,000**	**9,700**	**49,000**	**290,000**
Fluorene	ug/kg	**980 J**	**7,600**	**1,600 J**	**1,200 J**	**66,000 J**	**25,000 J**	**26,000**	**13,000**	**48,000**	**56,000 J**	**28,000**	24,000 UJ	460,000 UJ	**12,000**	**38,000**	3,300 U	**9,000**	**270,000**
Hexachlorobenzene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Hexachlorobutadiene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Hexachlorocyclopentadiene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Hexachloroethane	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**5,000 J**	**4,700 J**	**4,800 J**	**3,400 J**	**27,000 J**	**28,000**	**17,000 J**	**14,000**	**16,000 J**	**55,000 J**	**9,900 J**	**13,000 J**	460,000 UJ	**28,000**	**7,000 J**	**2,100 J**	**11,000**	250,000 U
Isophorone	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Naphthalene	ug/kg	**1,700 J**	**18,000**	**3,200 J**	**2,800 J**	**110,000**	**18,000 J**	**19,000 J**	**21,000**	**100,000**	**100,000**	**77,000**	**12,000 J**	460,000 UJ	**29,000**	**140,000**	**1,200 J**	**6,200 J**	**1,300,000**
Nitrobenzene	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
N-nitrosodi-n-propylamine	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
N-nitrosodiphenylamine	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Pentachlorophenol	ug/kg	32,000 U	31,000 U	33,000 U	24,000 U	160,000 U	130,000 U	96,000 U	50,000 U	86,000 U	410,000 U	90,000 U	120,000 UJ	2,200,000 UJ	55,000 U	50,000 U	16,000 U	33,000 U	1,200,000 U
Phenanthrene	ug/kg	**4,400 J**	**31,000**	**14,000**	**4,500 J**	**400,000**	**150,000**	**99,000**	**59,000**	**160,000**	**650,000**	**120,000**	**29,000 J**	**110,000 J**	**140,000**	**110,000**	**3,000 J**	**46,000 J**	**670,000**
Phenol	ug/kg	6,600 U	6,300 U	6,900 U	4,900 U	33,000 U	27,000 U	20,000 U	10,000 U	18,000 U	84,000 U	19,000 U	24,000 UJ	460,000 UJ	11,000 U	10,000 U	3,300 U	6,800 U	250,000 U
Pyrene	ug/kg	**18,000**	**33,000**	**41,000**	**41,000**	**280,000**	**130,000**	**91,000**	**97,000**	**120,000**	**400,000**	**120,000**	**140,000 J**	**170,000 J**	**150,000**	**49,000**	**15,000**	**57,000**	**260,000**
Total PAHs	ug/kg	**99,780**	**210,600**	**183,000**	**163,300**	**1,858,700**	**890,900**	**686,500**	**576,700**	**1,020,700**	**2,859,000**	**750,400**	**545,100**	**508,000**	**948,800**	**696,800**	**62,150**	**391,300**	**5,159,000**

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-98	GC-SED-98	GC-SED-99B	GC-SED-99B
Sample Number:		GC-SED-98(1-2)	GC-SED-98(8.5-9.5)	GC-SED-99(3.5-4.5)	GC-SED-99(7.2-8.7)
Sample Depth:		1-2	8.5-9.5	3.5-4.5	7.2-8.7
Sample Date:		1/27/2006	1/27/2006	12/22/2005	12/22/2005
Sample Type:		N	N	N	N
Parameter	**Units**	**Semi-Volatile Organic Compounds**			
2,4,5-trichlorophenol	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
2,4,6-trichlorophenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2,4-dichlorophenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2,4-dimethylphenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2,4-dinitrophenol	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
2,4-dinitrotoluene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2,6-dinitrotoluene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2-chloronaphthalene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2-chlorophenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2-methylnaphthalene	ug/kg	**1,800 J**	**6,400,000**	**740,000**	**5,800,000**
2-methylphenol (o-cresol)	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
2-nitroaniline	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
2-nitrophenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
3,3'-dichlorobenzidine	ug/kg	15,000 U	2,600,000 U	220,000 U	1,700,000 U
3-nitroaniline	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
4,6-dinitro-2-methylphenol	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
4-bromophenyl phenyl ether	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
4-chloro-3-methylphenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
4-chloroaniline	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
4-chlorophenyl phenyl ether	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
4-methylphenol (p-cresol)	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
4-nitroaniline	ug/kg	15,000 U	2,600,000 U	220,000 U	1,700,000 U
4-nitrophenol	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
Acenaphthene	ug/kg	**19,000**	**2,900,000**	**360,000**	**2,400,000**
Acenaphthylene	ug/kg	**11,000**	**230,000 J**	**110,000 J**	**440,000 J**
Anthracene	ug/kg	**23,000**	**1,200,000 J**	**310,000**	**1,100,000**
Benzo(a)anthracene	ug/kg	**29,000**	**520,000 J**	**200,000**	**630,000 J**
Benzo(a)pyrene	ug/kg	**25,000**	**310,000 J**	**160,000**	**440,000 J**
Benzo(b)fluoranthene	ug/kg	**19,000**	1,300,000 U	**67,000 J**	**300,000 J**
Benzo(g,h,i)perylene	ug/kg	**11,000**	1,300,000 U	**98,000 J**	**140,000 J**
Benzo(k)fluoranthene	ug/kg	**5,400 J**	1,300,000 U	**81,000 J**	860,000 U
Benzyl butyl phthalate	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Bis(2-chloroethoxy) methane	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Bis(2-chloroethyl) ether	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Bis(2-ethylhexyl) phthalate	ug/kg	**58,000**	1,300,000 U	**16,000 J**	860,000 U
Carbazole	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U

TABLE I-9A
SVOC Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		**GC-SED-98**	**GC-SED-98**	**GC-SED-99B**	**GC-SED-99B**
Sample Number:		**GC-SED-98(1-2)**	**GC-SED-98(8.5-9.5)**	**GC-SED-99(3.5-4.5)**	**GC-SED-99(7.2-8.7)**
Sample Depth:		**1-2**	**8.5-9.5**	**3.5-4.5**	**7.2-8.7**
Sample Date:		**1/27/2006**	**1/27/2006**	**12/22/2005**	**12/22/2005**
Sample Type:		**N**	**N**	**N**	**N**
Parameter	**Units**	**Semi-Volatile Organic Compounds**			
Chrysene	ug/kg	**29,000**	**530,000 J**	**240,000**	**700,000 J**
Dibenz(a,h)anthracene	ug/kg	**3,400 J**	1,300,000 U	**26,000 J**	860,000 U
Dibenzofuran	ug/kg	7,500 U	1,300,000 U	**39,000 J**	**140,000 J**
Diethyl phthalate	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Dimethyl phthalate	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Di-n-butyl phthalate	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 UJ
Di-n-octylphthalate	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Fluoranthene	ug/kg	**42,000**	**880,000 J**	**340,000**	**1,000,000**
Fluorene	ug/kg	7,500 U	**1,500,000**	**240,000**	**1,100,000**
Hexachlorobenzene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Hexachlorobutadiene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Hexachlorocyclopentadiene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Hexachloroethane	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Indeno(1,2,3-c,d)pyrene	ug/kg	**9,800**	1,300,000 U	**77,000 J**	**120,000 J**
Isophorone	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Naphthalene	ug/kg	**3,500 J**	**12,000,000**	**810,000**	**9,300,000**
Nitrobenzene	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
N-nitrosodi-n-propylamine	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
N-nitrosodiphenylamine	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Pentachlorophenol	ug/kg	37,000 U	6,300,000 U	530,000 U	4,100,000 U
Phenanthrene	ug/kg	**15,000**	**3,600,000**	**880,000**	**3,500,000**
Phenol	ug/kg	7,500 U	1,300,000 U	110,000 U	860,000 U
Pyrene	ug/kg	**42,000**	**1,500,000**	**500,000**	**1,800,000**
Total PAHs	ug/kg	**288,900**	**31,570,000**	**5,239,000**	**28,770,000**

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TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

	Station Location:	GC-SD107	GC-SD107	GC-SD107	GC-SD107	GC-SD124	GC-SD124	GC-SD124	GC-SD124	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD126	GC-SD126	GC-SD126	GC-SD126
	Sample Number:	GC-SD107-00.0-02.0	GC-SD107-02.0-04.0	GC-SD107-04.0-06.0	GC-SD107-06.0-08.0	GC-SD124-00.0-02.0	GC-SD124-02.0-04.0	GC-SD124-04.0-06.0	GC-SD124-06.0-07.5	GC-SD125-00.0-02.0	GC-SD125-02.0-04.0	GC-SD125-04.0-06.0	GC-SD125-06.0-08.0	GC-SD125-08.0-10.0	D-03092010-01	GC-SD126-00.0-02.0	GC-SD126-02.0-04.0	GC-SD126-04.0-06.0	D-03042010-02
	Sample Depth:	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-7.5	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	4-6	4-6
	Sample Date:	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010
	Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	FD
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	2.7 U	2.2 U	8.8 U	5 UJ	3.9 U	11 R	9.1 R	**48 J**	**1.5 J**	**8.2 NJ**	6.9 UJ	3.6 UJ	9.4 U	8.9 U	**11 J**	4.1 U	5.2 R	**13 J**
Alpha BHC	ug/kg	2.7 U	2.2 U	8.8 U	5 UJ	3.9 U	4 UJ	3.3 U	**110 J**	2.3 U	6 R	6.9 UJ	7 R	9.4 U	**7.6 J**	2.8 UJ	4.1 U	2.9 UJ	5.8 UJ
Alpha endosulfan	ug/kg	2.7 U	2.2 U	8.8 U	5 UJ	3.9 U	4 U	3.3 U	16 R	2.3 U	7.3 R	6.9 U	4.1 R	9.4 U	8.9 U	2.8 U	4.1 U	**20 J**	**48 J**
Alpha-chlordane	ug/kg	**24 J**	**14 NJ**	8.8 UJ	8.9 R	3.9 U	10 R	19 R	**130 NJ**	2.8 R	**48 NJ**	**140 J**	**62 NJ**	9.4 U	8.9 U	2.8 U	10 R	**63 J**	82 R
Beta BHC	ug/kg	2.7 UJ	2.2 UJ	18 R	24 R	3.9 U	24 R	3.3 U	6.4 UJ	2.9 R	3.2 U	32 R	16 R	12 R	8.9 U	3.4 R	17 R	**59**	50 R
Beta endosulfan	ug/kg	5.3 U	4.2 U	19 R	9.7 UJ	7.5 U	16 R	**68 NJ**	150 R	4.5 U	6.1 U	13 U	7 U	18 U	17 U	5.4 U	8 U	5.7 U	24 R
Delta BHC	ug/kg	2.7 U	2.2 UJ	8.8 U	**61 J**	3.9 U	4 UJ	3.3 U	41 R	**1.2 J**	3.2 U	6.9 U	3.6 U	9.4 U	8.9 U	**4.3 NJ**	5 R	**34 J**	**49 NJ**
Dieldrin	ug/kg	5.3 U	**11 J**	63 R	12 R	7.5 U	11 R	**81 NJ**	55 R	4.6 R	**32 J**	**130 NJ**	**76 NJ**	32 R	**74 J**	5.4 U	**61 J**	**250**	**250 J**
Endosulfan sulfate	ug/kg	**28 J**	4.2 U	110 R	10 R	12 R	160 R	**460 J**	390 R	4.5 UJ	**15 J**	**63 J**	13 R	18 U	39 R	15 R	**47 NJ**	83 R	99 R
Endrin	ug/kg	5.3 U	11 R	25 R	9.7 UJ	7.5 U	9.4 R	29 R	12 UJ	4.5 UJ	6.1 UJ	13 UJ	14 R	18 UJ	170 R	6 R	8 U	36 R	59 R
Endrin aldehyde	ug/kg	10 R	4.5 R	**34 J**	9.7 UJ	7.5 U	41 R	47 R	19 R	4.5 UJ	**11 NJ**	48 R	**69 J**	27 R	**68 NJ**	13 R	**87 NJ**	31 R	**200 J**
Endrin ketone	ug/kg	**24 NJ**	**7.7 J**	**150 J**	31 R	7.5 UJ	45 R	**140 J**	**160 J**	6.6 R	9 R	**56 NJ**	33 R	52 R	81 R	**17 J**	**20 J**	**68 NJ**	37 R
Gamma BHC	ug/kg	2.7 U	2.2 U	8.8 U	**23 NJ**	3.9 U	4 UJ	**28 J**	**32 NJ**	2.3 U	3.2 U	6.9 UJ	3.6 U	9.4 U	8.9 U	8.5 R	4.1 R	2.9 R	**26 J**
Gamma-chlordane	ug/kg	**120 NJ**	**78 NJ**	**71 NJ**	5 UJ	9.4 R	86 R	34 R	44 R	87 R	57 R	330 R	91 R	15 R	8.9 UJ	42 R	**180 NJ**	**150 NJ**	250 R
Heptachlor	ug/kg	4.2 R	2.4 R	9.1 R	**21 J**	3.9 U	4 U	12 R	6.4 UJ	2.3 UJ	18 R	9.3 R	**48 J**	9.4 UJ	8.9 UJ	2.8 U	4.1 U	3.6 R	11 R
Heptachlor epoxide	ug/kg	2.7 UJ	**1.5 J**	9.3 R	**7.4 J**	3.9 U	**35 J**	3.3 U	**130 J**	2.3 U	**47 J**	35 R	**48 NJ**	20 R	23 R	2.8 U	4.1 U	25 R	39 R
Methoxychlor	ug/kg	27 UJ	22 U	88 UJ	50 UJ	39 UJ	170 R	**900 J**	**630 NJ**	23 U	**380 J**	95 R	36 UJ	94 UJ	89 UJ	28 UJ	65 R	110 R	120 R
P,P'-DDD	ug/kg	85 R	**28 NJ**	**510 NJ**	**430 J**	**22 NJ**	**280 J**	**710 J**	260 R	6.3 R	**120 J**	**570 J**	**470 J**	180 R	17 U	16 R	**79 NJ**	210 R	**200 J**
P,P'-DDE	ug/kg	**27 J**	21 R	140 R	19 R	7.5 UR	**60 JN**	46 R	12 UR	**16 NJ**	**89 NJ**	210 R	**300 NJ**	150 R	98 R	**7.4 NJ**	**67 NJ**	**170 NJ**	**210 NJ**
P,P'-DDT	ug/kg	43 R	12 R	**250 NJ**	71 R	**26 J**	77 R	**220 J**	**380 NJ**	**67 NJ**	74 R	**150 NJ**	110 R	**590 J**	**480 J**	**130 J**	**110 J**	**490 NJ**	**560 J**
Toxaphene	ug/kg	270 U	220 U	880 U	500 UJ	390 U	400 U	330 U	640 UJ	230 U	320 U	690 U	360 U	940 U	890 U	280 U	410 U	290 U	580 UJ
Total DDTs	ug/kg	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**256**	**660**	**970**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD126	GC-SD152	GC-SD152	GC-SD152	GC-SD152	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD109	GC-SD109	GC-SD153	GC-SD153	GC-SD145	GC-SD145	GC-SD146	GC-SD146
Sample Number:		GC-SD126-06.0-06.6	GC-SD152-00.0-02.0	GC-SD152-02.0-04.0	GC-SD152-04.0-06.0	GC-SD152-06.0-07.3	GC-SD108-00.0-02.0	GC-SD108-02.0-04.0	GC-SD108-04.0-06.0	GC-SD108-06.0-08.0	D-03052010-02	GC-SD109-00.0-02.0	GC-SD109-02.0-04.0	GC-SD153-00.0-02.0	GC-SD153-02.0-03.2	GC-SD145-00.0-02.0	GC-SD145-02.0-03.5	GC-SD146-00.0-02.0	GC-SD146-02.0-04.0
Sample Depth:		6-6.6	0-2	2-4	4-6	6-7.3	0-2	2-4	4-6	6-8	6-8	0-2	2-4	0-2	2-3.2	0-2	2-3.5	0-2	2-4
Sample Date:		3/4/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/4/2010	3/4/2010	4/15/2010	4/15/2010	4/9/2010	4/9/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	2.7 U	4.7 U	**13 J**	3.4 U	3 U	4.3 U	9.6 R	**52 NJ**	**23 J**	6.6 R	**5.3 J**	**5.5**	4.2 U	**4.5 J**	3.5 U	2.7 U	4.5 U	4.3 U
Alpha BHC	ug/kg	2.7 U	4.7 U	4.3 U	**25 J**	**5.3 J**	4.3 U	6.5 UJ	11 UJ	**10 NJ**	2.6 UJ	**8.3 J**	**3.1 J**	4.2 U	3.2 UJ	3.5 U	**17 J**	4.5 U	4.3 U
Alpha endosulfan	ug/kg	2.7 U	4.7 U	4.3 U	3.4 U	**3.8 J**	4.3 UJ	6.5 U	13 R	2.6 U	2.6 U	5.2 U	4.8 U	4.2 U	3.2 U	3.5 U	3.2 R	4.5 U	4.3 U
Alpha-chlordane	ug/kg	24 R	**9 NJ**	**50 J**	**78 NJ**	3 U	**7.4 NJ**	**62 J**	**95 J**	**37 J**	**66**	**5.8 NJ**	4.8 U	**4.4 J**	**11 J**	**3.1 J**	2.7 UR	4.5 U	4.3 U
Beta BHC	ug/kg	**20 J**	4.7 U	**8.2 NJ**	**23 J**	3 U	5.3 R	24 R	**21 NJ**	11 R	2.7 R	14 R	**13 NJ**	4.2 U	3.2 UJ	3.5 U	2.7 UJ	4.5 U	4.3 U
Beta endosulfan	ug/kg	5.2 U	9.1 U	8.4 U	6.6 U	5.8 UJ	8.4 U	13 UJ	21 UJ	5 U	5.1 U	10 U	9.3 U	8.1 U	6.2 U	6.7 U	18 R	8.7 U	8.4 U
Delta BHC	ug/kg	2.7 U	4.7 U	4.3 U	3.4 U	3 U	4.3 U	6.5 U	11 U	6.1 R	8.6 R	**12 J**	**8 NJ**	4.2 U	**9.1 J**	3.5 U	2.7 U	4.5 U	4.3 U
Dieldrin	ug/kg	**57 J**	**11 J**	**34 J**	6.6 U	5.8 U	9.2 R	**56 J**	**88 NJ**	**50 NJ**	**74 NJ**	10 UJ	9.3 U	**5.7 J**	**13 J**	6.7 U	5 UJ	8.7 U	8.4 U
Endosulfan sulfate	ug/kg	15 R	**63**	**41 J**	**110 J**	14 R	**41 J**	**180 NJ**	**340 J**	110 R	110 R	16 R	23 R	15 R	26 R	**7.9**	87 R	8.7 U	8.4 U
Endrin	ug/kg	6.6 R	9.1 U	8.4 U	6.6 U	5.8 U	8.4 U	13 U	21 U	5 U	5.1 U	10 U	9.3 UJ	8.1 U	6.2 U	6.7 U	**15 J**	8.7 U	8.4 U
Endrin aldehyde	ug/kg	**21 NJ**	**9.6 J**	**27 J**	**29 J**	6 R	**22 NJ**	**59 J**	**110 J**	**59 NJ**	**190 J**	**23 J**	**29**	8.1 UJ	**15 NJ**	6.7 U	13 R	8.7 U	8.4 U
Endrin ketone	ug/kg	**17 J**	9.1 U	8.4 U	6.6 U	9.1 R	14 R	32 R	65 R	**27 J**	**34 J**	10 UJ	9.3 U	8.1 U	6.2 U	6.7 U	**7.8 J**	8.7 U	8.4 U
Gamma BHC	ug/kg	2.7 R	4.7 U	4.3 U	3.4 U	3 U	**4.3 J**	6.5 U	11 U	2.6 U	21 R	**8.2 NJ**	4.8 R	4.2 U	3.2 U	3.5 U	2.7 U	4.5 U	4.3 U
Gamma-chlordane	ug/kg	**100 NJ**	94 R	200 R	**100 NJ**	3 U	130 R	340 R	**460 NJ**	140 R	200 R	**260 NJ**	74 R	40 R	44 R	3.5 U	14 R	4.5 U	16 R
Heptachlor	ug/kg	3 R	**3.2 J**	**9.8 J**	**15 J**	**3.5 J**	4.3 U	13 R	15 R	8.2 R	9.3 R	5.2 U	4.8 U	**2.2 J**	3.2 UJ	3.5 U	7.2 R	4.5 U	4.3 U
Heptachlor epoxide	ug/kg	21 R	4.7 U	11 R	**19 NJ**	3 U	4.3 U	6.5 UJ	24 R	5.9 R	16 R	5.2 U	4.8 U	4.2 U	3.2 UJ	3.5 U	2.7 U	4.5 U	4.3 U
Methoxychlor	ug/kg	37 R	47 U	**50 J**	**140 J**	30 U	43 UJ	**210 J**	**330 J**	**92 NJ**	110 R	55 R	48 U	42 U	**48 J**	**20 J**	**78 J**	45 U	43 U
P,P'-DDD	ug/kg	**95 J**	**34 NJ**	**100 NJ**	**230 J**	**17 J**	76 R	120 R	200 R	**160 J**	**130 NJ**	18 R	27 R	**31 J**	**79 J**	**59**	37 R	8.7 U	**8.7**
P,P'-DDE	ug/kg	**100 NJ**	21 R	100 R	100 R	5.8 U	**26 J**	130 R	220 R	94 R	150 R	**18 NJ**	26 R	15 R	34 R	**25 NJ**	9.6 R	8.7 UR	8.4 UR
P,P'-DDT	ug/kg	**99 J**	**25 J**	**74 J**	**130 J**	7.4 R	24 R	110 R	**190 NJ**	**98 NJ**	**140 J**	11 R	**28 J**	**13 NJ**	**28 NJ**	6.7 U	**47 NJ**	8.7 U	8.4 U
Toxaphene	ug/kg	270 U	470 U	430 U	340 U	300 U	430 U	650 U	1,100 U	260 U	260 U	520 U	480 U	420 U	320 U	350 U	270 U	450 U	430 U
Total DDTs	ug/kg	**294**	---	---	---	---	---	---	---	---	---	---	---	---	---	**84**	---	---	---

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD146	GC-SD146	GC-SD147	GC-SD147	GC-SD148	GC-SD148	GC-SD148	GC-SD110	GC-SD110	GC-SD110	GC-SD127	GC-SD127	GC-SD127	GC-SD128	GC-SD128	GC-SD129	GC-SD129	GC-SD129
Sample Number:		GC-SD146-04.0-06.0	GC-SD146-06.0-06.6	GC-SD147-00.0-02.0	GC-SD147-02.0-03.1	GC-SD148-00.0-02.0	GC-SD148-02.0-04.0	GC-SD148-04.0-05.5	GC-SD110-00.0-02.0	GC-SD110-02.0-04.0	GC-SD110-04.0-05.0	GC-SD127-00.0-02.0	GC-SD127-02.0-04.0	GC-SD127-04.0-06.0	GC-SD128-00.0-02.0	GC-SD128-02.0-02.5	GC-SD129-00.0-02.0	GC-SD129-02.0-04.0	GC-SD129-04.0-06.0
Sample Depth:		4-6	6-6.6	0-2	2-3.1	0-2	2-4	4-5.5	0-2	2-4	4-5	0-2	2-4	4-6	0-2	2-2.5	0-2	2-4	4-6
Sample Date:		4/12/2010	4/12/2010	4/9/2010	4/9/2010	4/14/2010	4/14/2010	4/14/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	4/14/2010	4/14/2010	4/14/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	4.4 U	2.6 U	4.6 U	3.4 U	4.4 U	**6.4 J**	4 R	4.6 UJ	4 U	3 U	4 U	7.8 UJ	**35 NJ**	4.4 U	4 U	5.9 R	3.8 U	**7.5 J**
Alpha BHC	ug/kg	4.4 U	**3.3 NJ**	4.6 U	3.4 U	4.4 U	**3.9 NJ**	**6.4 J**	4.6 UJ	4 UJ	**3.2 J**	4 U	7.8 U	3.3 U	4.4 U	5 R	4.1 U	**4 NJ**	3.3 U
Alpha endosulfan	ug/kg	4.4 U	2.6 U	4.6 U	3.4 U	4.4 U	3.6 U	2.9 U	4.6 UJ	4 UJ	3 U	4 U	7.8 U	29 R	4.4 U	3.5 UJ	**18 J**	3.8 U	3.3 U
Alpha-chlordane	ug/kg	4.4 U	2.6 U	4.6 UR	**11 NJ**	4.4 U	**8 J**	**7.6 J**	5.6 R	**36 J**	**22 J**	**14 J**	**55 J**	3.5 R	**10 NJ**	**58 J**	15 R	**17 J**	3.3 U
Beta BHC	ug/kg	4.4 U	2.6 UJ	4.6 U	3.4 U	4.4 U	5 R	12 R	4.6 UJ	4 U	**8.9 NJ**	4 UJ	7.8 U	3.3 U	4.4 UJ	**17 J**	6.1 R	5.2 R	3.3 U
Beta endosulfan	ug/kg	8.5 U	5 U	8.9 U	6.6 U	8.5 U	7 U	**30 J**	8.9 UJ	8 UJ	12 R	7.7 U	15 U	110 R	8.5 U	7.7 U	8 U	7.3 U	6.3 U
Delta BHC	ug/kg	4.4 U	2.6 U	4.6 U	3.4 U	4.4 U	3.6 U	2.9 U	4.6 UJ	4 U	3 U	4 U	7.8 U	**3.1 J**	4.4 U	4 U	4.1 U	3.8 U	3.3 U
Dieldrin	ug/kg	8.5 U	5 U	8.9 U	**19 NJ**	8.5 U	**16 J**	5.6 U	8.9 UJ	**73 J**	**34 J**	7.7 U	**69 NJ**	6.4 U	9.9 R	**120 J**	**23 NJ**	**66 NJ**	6.3 U
Endosulfan sulfate	ug/kg	8.5 U	5 U	8.9 U	6.6 U	8.5 U	20 R	35 R	8.9 UJ	**50 J**	**180 J**	7.7 UJ	**110 J**	89 R	22 R	**72 NJ**	32 R	**240 J**	58 R
Endrin	ug/kg	8.5 U	5 U	8.9 U	6.6 U	8.5 U	7 U	5.6 U	8.9 UJ	8.5 R	6 UJ	7.7 U	15 UJ	6.4 U	8.5 UJ	8.6 R	8 U	13 R	6.3 U
Endrin aldehyde	ug/kg	8.5 U	**11 NJ**	8.9 U	**13**	8.5 U	**23 J**	13 R	**6.8 J**	**42 J**	24 R	**18 NJ**	**41 J**	67 R	**13 NJ**	28 R	21 R	**63 J**	40 R
Endrin ketone	ug/kg	8.5 U	5 U	8.9 U	6.6 U	8.5 U	**23 J**	**16 J**	8.9 UJ	18 R	16 R	11 R	17 R	**94 NJ**	8.5 U	13 R	15 R	7.3 U	40 R
Gamma BHC	ug/kg	4.4 U	2.6 U	4.6 U	3.4 U	4.4 U	3.6 U	2.9 U	4.6 UJ	4 U	3 U	4 U	7.8 U	3.3 U	4.4 U	2.1 UJ	**2.7 J**	3.8 U	3.3 U
Gamma-chlordane	ug/kg	5.8 R	3.9 R	4.6 U	3.4 UJ	27 R	36 R	14 R	**6.8 NJ**	**31 J**	**22 J**	4 U	21 R	**46 J**	**10 J**	**55 J**	56 R	26 R	**8.1 J**
Heptachlor	ug/kg	4.4 U	2.6 U	4.6 U	**5**	4.4 U	3.6 U	2.9 U	4.6 UJ	**5.3 NJ**	3 UJ	4 UJ	**8.6 NJ**	3.3 U	4.4 UJ	**14 NJ**	**17 NJ**	**5.5 NJ**	3.3 U
Heptachlor epoxide	ug/kg	4.4 U	**5.5 NJ**	4.6 U	**7.4 NJ**	4.4 U	**12 J**	16 R	4.6 UJ	**7.4 J**	8.7 R	**3 J**	7.8 UJ	**19 J**	4.4 UJ	**14 NJ**	4.1 U	**45 J**	**3.1 J**
Methoxychlor	ug/kg	44 U	26 U	46 U	34 U	44 U	**100 J**	**98 NJ**	46 UJ	58 R	**170 J**	40 UJ	78 U	310 R	44 U	130 R	41 U	120 R	93 R
P,P'-DDD	ug/kg	**19 J**	7 R	8.9 U	**65**	8.5 U	**110 J**	**110 NJ**	**30 J**	**200 J**	**79 NJ**	**60 J**	**340 J**	6.4 U	51 R	**260 NJ**	55 R	**160 NJ**	8 R
P,P'-DDE	ug/kg	8.7 R	**7 NJ**	8.9 UR	**40 NJ**	8.5 U	42 R	**30 NJ**	**25 NJ**	**110 NJ**	**82 NJ**	**41 NJ**	**150 J**	**11 J**	**43 NJ**	**270 NJ**	38 R	**230 NJ**	6.3 U
P,P'-DDT	ug/kg	8.5 U	**13 NJ**	8.9 U	9.3 R	8.5 U	**46 NJ**	**37 NJ**	**23 J**	**130 NJ**	**98 NJ**	**47 NJ**	**100 NJ**	**210 NJ**	38 R	**240 J**	45 R	**140 NJ**	**41 J**
Toxaphene	ug/kg	440 U	260 U	460 U	340 U	440 U	360 U	290 U	460 UJ	400 U	300 U	400 U	780 U	330 U	440 U	400 U	410 U	380 U	330 U
Total DDTs	ug/kg	---	---	---	---	ND	---	**177**	**78**	**440**	**259**	**148**	**590**	**221**	---	**770**	---	**530**	---

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD129	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD112	GC-SD112	GC-SD112	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD37B	GC-SD37B	GC-SD37B
Sample Number:		GC-SD129-06.0-06.5	GC-SD111-00.0-02.0	GC-SD111-02.0-04.0	D-03162010-02	GC-SD111-04.0-06.0	GC-SD111-06.0-08.0	GC-SD112-00.0-02.0	GC-SD112-02.0-04.0	D-03122010-01	GC-SD113-00.0-02.0	GC-SD113-02.0-04.0	GC-SD113-04.0-06.0	D-03152010-01	GC-SD113-06.0-08.0	GC-SD113-08.0-09.0	GC-SD037B-00.0-00.5	GC-SD037B-01.4-01.9	GC-SD037B-02.5-04.2
Sample Depth:		6-6.5	0-2	2-4	2-4	4-6	6-8	0-2	2-4	2-4	0-2	2-4	4-6	4-6	6-8	8-9	0-0.5	1.4-1.9	2.5-4.2
Sample Date:		4/14/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/12/2010	3/12/2010	3/12/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	4/13/2010	4/13/2010	4/13/2010
Sample Type:		N	N	N	FD	N	N	N	N	FD	N	N	N	FD	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	2.8 U	**34 J**	8.6 UJ	**110 J**	3.9 UJ	**4 J**	2.1 U	9.7 R	**9.6 NJ**	3.1 UJ	16 R	5.5 R	2.5 U	**10 J**	6.4 R	4.1 U	2.6 R	6.4 R
Alpha BHC	ug/kg	2.8 U	8.2 UJ	8.6 UJ	8.2 UJ	3.9 UJ	2.8 UJ	2.1 U	9.5 U	4.7 UJ	3.1 U	3.1 U	4.7 UJ	2.5 U	**20 J**	11 R	4.1 U	2.2 U	3.1 UJ
Alpha endosulfan	ug/kg	2.8 U	8.2 UJ	8.6 UJ	8.2 UJ	3.9 UJ	2.8 U	2.1 U	9.5 U	4.7 UJ	3.1 U	3.1 U	4.7 UJ	2.5 U	11 R	37 R	4.1 U	2.2 U	5.7 R
Alpha-chlordane	ug/kg	2.8 U	**65 J**	**110 J**	**170 NJ**	**47 J**	6.4 R	**7.5 NJ**	**1,200 J**	**510 J**	**14 J**	**10 NJ**	4.7 UJ	**6 J**	3 R	5 R	4.1 U	**4.3 J**	**25 J**
Beta BHC	ug/kg	2.8 UJ	8.2 UJ	8.6 UJ	8.2 UJ	3.9 UJ	2.8 UJ	2.1 U	**13 NJ**	7.8 R	**12 J**	**10 NJ**	4.7 UJ	**10 J**	2.6 U	2.6 U	4.1 U	**3.6 J**	**4.3 J**
Beta endosulfan	ug/kg	7.9 R	16 UJ	17 UJ	110 R	7.8 UJ	5.5 U	4 U	18 U	9.2 U	5.9 U	6.2 UJ	9.4 UJ	4.9 U	**77 NJ**	**83 NJ**	8 U	4.2 U	9.1 R
Delta BHC	ug/kg	2.8 U	8.2 UJ	8.6 UJ	8.2 UJ	3.9 UJ	2.8 UJ	2.1 U	9.5 U	4.7 U	3.1 U	3.1 U	4.7 UJ	**24 NJ**	4.3 R	2.6 UJ	4.1 U	2.2 U	**27 J**
Dieldrin	ug/kg	5.3 U	**150 J**	**180 J**	**240 J**	**110 J**	18 R	4.3 R	39 R	28 R	**42 NJ**	**93 NJ**	**38 NJ**	**53 NJ**	14 R	**17 J**	8 U	**14 J**	**98 J**
Endosulfan sulfate	ug/kg	35 R	82 R	35 R	29 R	48 R	**180 NJ**	4 U	18 UJ	9.2 UJ	**31 NJ**	40 R	**160 NJ**	**95 NJ**	**430 NJ**	110 R	25 R	22 R	**170 J**
Endrin	ug/kg	5.3 U	19 R	17 UJ	16 UJ	11 R	5.5 UJ	**17**	33 R	14 R	8.9 R	22 R	9.9 R	9 R	5 U	5.1 U	8 U	4.2 U	14 R
Endrin aldehyde	ug/kg	5.3 U	**95 J**	70 R	**130 J**	**48 J**	18 R	**7.3**	18 U	9.2 UJ	**44 NJ**	43 R	15 R	**60 NJ**	74 R	12 R	12 R	**15 J**	**74 J**
Endrin ketone	ug/kg	5.3 U	20 R	23 R	**40 NJ**	29 R	**19 J**	4 U	18 U	9.2 UJ	13 R	**25 J**	**49 J**	**18 J**	**91 NJ**	**140 J**	**13 NJ**	9.8 R	12 R
Gamma BHC	ug/kg	2.8 U	8.2 UJ	8.6 UJ	8.2 UJ	3.9 UJ	2.8 U	2.1 U	9.5 UJ	4.7 UJ	5 R	3.1 U	4.7 UJ	2.5 UJ	**10 J**	2.6 UJ	4.1 U	2.2 U	3.1 U
Gamma-chlordane	ug/kg	2.8 U	64 R	230 R	380 R	73 R	20 R	2.9 R	**920 J**	**400 J**	38 R	130 R	29 R	38 R	2.6 U	25 R	33 R	40 R	22 R
Heptachlor	ug/kg	2.8 U	**11 NJ**	16 R	29 R	**8.9 NJ**	**4.7 J**	2.1 U	**25 J**	**20 J**	**8.2 J**	**5.3 NJ**	4.7 UJ	3.3 R	2.6 U	2.6 U	4.1 U	**2.9 J**	5.6 R
Heptachlor epoxide	ug/kg	3.8 R	16 R	8.6 UJ	28 R	16 R	**28 NJ**	**1.1 J**	22 R	11 R	3.1 UJ	3.8 R	11 R	2.9 R	4 R	**10 J**	4.1 U	2.2 U	3.7 R
Methoxychlor	ug/kg	28 U	170 R	86 UJ	120 R	80 R	71 R	21 U	95 U	47 U	34 R	40 R	47 UJ	75 R	190 R	110 R	**84 J**	23 R	190 R
P,P'-DDD	ug/kg	5.3 U	**290 J**	**480 J**	**910 J**	**260 J**	**200 J**	**32 J**	**730 J**	**510 J**	**94 J**	**360 J**	**170 J**	**210 J**	5 U	5.1 U	**41 J**	**35 J**	**180 NJ**
P,P'-DDE	ug/kg	5.3 UJ	**250 NJ**	**270 NJ**	**470 NJ**	**140 NJ**	**430 NJ**	**15 NJ**	**230 J**	**130 NJ**	**58 NJ**	**67 NJ**	**59 NJ**	**70 NJ**	**74 NJ**	5.1 UR	8 U	**11 NJ**	**73 J**
P,P'-DDT	ug/kg	5.3 U	**260 J**	**270 J**	**400 J**	**150 J**	**75 NJ**	**24 J**	**1,500 J**	**600 J**	**120 J**	**210 J**	**130 NJ**	**140 NJ**	**94 J**	**200 J**	26 R	**31 J**	**160 NJ**
Toxaphene	ug/kg	280 U	820 UJ	860 UJ	820 UJ	390 UJ	280 U	210 U	950 U	470 U	310 U	310 U	470 UJ	250 U	260 U	260 U	410 U	220 U	310 U
Total DDTs	ug/kg	ND	**800**	**1,020**	**1,780**	**550**	**705**	**71**	**2,460**	**1,240**	**272**	**637**	**359**	**420**	**168**	**---**	**---**	**77**	**413**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Parameter	Units	Station Location:	GC-SD38A	GC-SD38A	GC-SD116	GC-SD116	GC-SD116	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD115	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD131	GC-SD132
		Sample Number:	GC-SD038A-02.1-02.6	GC-SD038A-02.6-04.4	GC-SD116-00.0-02.0	GC-SD116-02.0-04.0	GC-SD116-04.0-06.0	GC-SD117-00.0-02.0	GC-SD117-02.0-04.0	GC-SD117-04.0-06.0	D-03182010-01	GC-SD117-06.0-07.6	GC-SD115-00.0-01.5	GC-SD130-00.0-02.0	GC-SD130-02.0-04.0	D-03222010-01	GC-SD130-04.0-06.0	GC-SD130-06.0-07.0	GC-SD131-00.0-01.3	GC-SD132-00.0-02.0
		Sample Depth:	2.1-2.6	2.6-4.4	0-2	2-4	4-6	0-2	2-4	4-6	4-6	6-7.6	0-1.5	0-2	2-4	2-4	4-6	6-7	0-1.3	0-2
		Sample Date:	4/13/2010	4/13/2010	3/17/2010	3/17/2010	3/17/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/17/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/18/2010	3/22/2010
		Sample Type:	N	N	N	N	N	N	N	N	FD	N	N	N	N	FD	N	N	N	N
											Pesticides									
Aldrin	ug/kg		2.8 U	2.7 UJ	**19 J**	9.4 UJ	16 UJ	8.8 R	5 UJ	4.4 UJ	13 U	4.4 R	2.4 R	**11 J**	**3.4 J**	5.3 UJ	**4 NJ**	11 R	**4.3 NJ**	**11 J**
Alpha BHC	ug/kg		2.8 U	2.7 UJ	5.3 U	9.4 UJ	16 UJ	6.1 UJ	5 UJ	4.4 UR	13 U	2.5 UJ	2.1 UJ	3 U	2.8 U	**5.1 J**	3.8 UJ	2.3 U	2.4 U	3.6 UJ
Alpha endosulfan	ug/kg		2.8 U	2.7 UJ	5.3 U	9.4 UJ	16 UJ	6.1 UJ	5 UJ	4.4 UR	13 UJ	9.7 R	2.1 UJ	3 U	2.8 U	5.3 U	9.5 R	5.7 R	2.4 U	3.6 UJ
Alpha-chlordane	ug/kg		**8.4 J**	2.7 UJ	**16 J**	**59 J**	**83 NJ**	**84 J**	**73 J**	**67 J**	**82 NJ**	2.5 UJ	**5.6 NJ**	**7.5 NJ**	**21 J**	**43 J**	**6.7 J**	**5.6 J**	2.4 UJ	**7.6 NJ**
Beta BHC	ug/kg		6.2 R	2.7 UJ	**5.5 J**	9.4 UJ	**17 J**	**22 NJ**	17 R	5.5 R	13 UJ	2.5 UJ	9.5 R	**3.8 NJ**	2.8 UJ	**12 NJ**	3.8 UJ	2.3 U	**3.5 NJ**	3.6 UJ
Beta endosulfan	ug/kg		22 R	7.4 R	10 UJ	18 UJ	32 UJ	95 R	93 R	110 R	25 U	**230 NJ**	**37 J**	6.6 R	**26 J**	**33 J**	**53 J**	28 R	4.6 UJ	7 UJ
Delta BHC	ug/kg		2.8 U	2.7 UJ	5.3 U	9.4 UJ	16 UJ	**110 NJ**	**250 J**	**510 J**	13 U	2.5 UJ	2.1 UJ	**18 J**	**13 NJ**	5.3 U	**11 J**	**4.2 NJ**	2.4 U	**18 J**
Dieldrin	ug/kg		**35 J**	5.2 UJ	**75 NJ**	120 R	**450 J**	**180 J**	**120 J**	**170 J**	**170 J**	4.8 UJ	**49 J**	13 R	5.4 U	**55 NJ**	7.5 U	6 R	4.6 UJ	**24 J**
Endosulfan sulfate	ug/kg		95 R	9 R	64 R	99 R	**290 J**	200 R	**100 NJ**	**120 NJ**	**140 NJ**	140 R	33 R	52 R	**52 NJ**	190 R	99 R	4.5 U	**41 NJ**	15 R
Endrin	ug/kg		5.4 U	5.2 UJ	22 R	38 R	84 R	12 UJ	9.7 UJ	8.5 R	25 UJ	4.8 UJ	4 UJ	6 UJ	5.4 U	10 U	7.5 U	4.5 U	4.6 U	7 UJ
Endrin aldehyde	ug/kg		5.4 U	**19 NJ**	**95 J**	**170 J**	**440 J**	**150 NJ**	**110 NJ**	20 R	45 R	25 R	4 UJ	11 R	5.4 U	21 R	8.4 R	**46 NJ**	**15 NJ**	**20 J**
Endrin ketone	ug/kg		**30 NJ**	6.5 R	39 R	77 R	230 R	**57 NJ**	**27 NJ**	**27 NJ**	57 R	75 R	**43 NJ**	6.3 R	**23 J**	**37 J**	**49 J**	**37 J**	6.4 R	**18 J**
Gamma BHC	ug/kg		**5.4 J**	2.7 UJ	5.3 U	9.4 UJ	16 UJ	6.1 UJ	5 UJ	13 R	13 R	2.5 UJ	2.2 R	3 U	**8.5 J**	5.3 UJ	3.8 U	**2.7 J**	2.4 U	3.6 UJ
Gamma-chlordane	ug/kg		2.9 R	4.8 R	**63 J**	**120 J**	**66 J**	**350 NJ**	**300 NJ**	**67 NJ**	84 R	14 R	2.1 UJ	9.7 R	35 R	54 R	23 R	**31 NJ**	9.3 R	40 R
Heptachlor	ug/kg		2.8 U	2.7 UJ	5.3 UJ	10 R	22 R	8.9 R	32 R	**110 NJ**	**130 NJ**	2.5 UJ	2.1 UJ	3 UJ	2.8 U	5.3 U	3.8 U	2.3 U	2.4 U	3.6 UJ
Heptachlor epoxide	ug/kg		**13 J**	**4 J**	**62 J**	14 R	39 R	8.2 R	9.9 R	11 R	160 R	2.5 UJ	2.1 UJ	**18 NJ**	**14 J**	12 R	9 R	5.9 R	5 R	**19 NJ**
Methoxychlor	ug/kg		28 U	**59 J**	71 R	130 R	580 R	240 R	140 R	100 R	190 R	120 R	47 R	**140 J**	**130 J**	110 R	**250 J**	**140 J**	**38 J**	42 R
P,P'-DDD	ug/kg		**130 J**	9.6 R	**370 J**	**620 J**	**1,300 J**	**160 J**	**170 J**	**290 J**	**380 J**	4.8 UJ	**49 NJ**	**47 J**	**210 J**	**310 J**	**100 NJ**	**130 J**	14 R	**37 J**
P,P'-DDE	ug/kg		**75 J**	**9.6 NJ**	**73 NJ**	**210 NJ**	**310 NJ**	**220 NJ**	**220 NJ**	**220 NJ**	**220 NJ**	4.8 UR	**50 NJ**	**35 J**	**92 J**	**140 J**	7.5 U	**50 J**	4.6 UJ	**20 NJ**
P,P'-DDT	ug/kg		**81 NJ**	**29 NJ**	**230 NJ**	**460 J**	**1,100 J**	**400 NJ**	**300 J**	**250 NJ**	**280 NJ**	4.8 UJ	**180 J**	**63 J**	**63 J**	62 R	**72 NJ**	**85 J**	19 R	**58 J**
Toxaphene	ug/kg		280 U	270 UJ	530 U	940 UJ	1,600 UJ	610 UJ	500 UJ	440 UR	1,300 U	250 UJ	210 UJ	300 U	280 U	530 U	380 U	230 U	240 U	360 UJ
Total DDTs	ug/kg		**286**	**---**	**673**	**1,290**	**2,710**	**780**	**690**	**760**	**880**	**---**	**279**	**145**	**365**	**---**	**172**	**265**	**---**	**115**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD132	GC-SD132	GC-SD118	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD149	GC-SD149	GC-SD149	GC-SD120	GC-SD133	GC-SD133	GC-SD133	GC-SD133
Sample Number:		GC-SD132-02.0-04.0	GC-SD132-04.0-04.7	GC-SD118-00.2-00.7	GC-SD119-00.0-01.2	GC-SD119-04.5-06.0	GC-SD119-06.0-08.0	D-03312010-01	GC-SD119-08.0-10.0	GC-SD119-10.0-12.0	GC-SD119-12.0-13.0	GC-SD149-00.0-02.0	GC-SD149-02.0-04.0	GC-SD149-04.0-04.7	GC-SD120-00.0-01.3	GC-SD133-00.0-02.0	GC-SD133-02.0-04.0	GC-SD133-04.0-06.0	GC-SD133-06.0-07.8
Sample Depth:		2-4	4-4.7	0.2-0.7	0-1.2	4.5-6	6-8	6-8	8-10	10-12	12-13	0-2	2-4	4-4.7	0-1.3	0-2	2-4	4-6	6-7.8
Sample Date:		3/22/2010	3/22/2010	4/1/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	4/12/2010	4/12/2010	4/12/2010	3/31/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010
Sample Type:		N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	**13 NJ**	**17 NJ**	2.2 U	4 U	2.4 U	3.4 U	3.5 U	3.2 U	2.1 U	1.9 U	2.1 U	3 U	2.6 U	2 U	2.7 U	3.1 U	2.8 U	2.5 U
Alpha BHC	ug/kg	1.9 U	3.3 R	**2 J**	4 U	2.4 U	**3.1 J**	3.5 U	3.2 U	2.1 U	1.9 U	2.1 U	3 U	2.6 U	**2 J**	2.7 U	3.1 U	2.8 U	2.5 U
Alpha endosulfan	ug/kg	1.9 U	3 U	**4.1 J**	4 U	2.4 U	**9.4 J**	3.5 U	**6.9 J**	3.2 R	**1.7 J**	2.1 U	**4.2 NJ**	2.6 U	2 U	2.7 U	3.1 U	2.8 U	5.9 R
Alpha-chlordane	ug/kg	**4.7 J**	4.2 R	**13 J**	**37 NJ**	**3.6 J**	3.4 U	3.5 U	3.2 U	2.1 U	1.9 U	**3.3 J**	3 U	2.6 U	2 U	2.7 U	**24 NJ**	**24 J**	**13 J**
Beta BHC	ug/kg	1.9 U	3 U	2.2 U	4 U	**1.9 J**	3.4 UJ	3.5 UJ	3.2 UJ	2.1 U	1.9 U	2.1 U	3 U	2.6 U	2 UJ	2.7 U	3.8 R	3.4 R	2.5 U
Beta endosulfan	ug/kg	14 R	**44 J**	4.3 U	7.8 U	6.3 R	6.6 U	6.7 U	6.9 R	4.1 U	**7.7 J**	4.1 U	10 R	5.1 U	**28 J**	5.3 U	6.1 U	5.5 U	4.9 U
Delta BHC	ug/kg	1.9 U	3 U	2.2 U	**400 J**	2.4 U	3.4 U	3.5 U	3.2 U	2.1 U	1.9 U	2.1 U	3 U	2.6 U	2 U	2.7 U	3.1 U	2.8 U	2.5 U
Dieldrin	ug/kg	3.8 U	5.9 U	4.3 U	**100 J**	4.6 UJ	**3.6 J**	**6.7 J**	6.2 UJ	4.1 U	3.8 U	4.1 UJ	5.8 U	5.1 U	4 U	**4.4 J**	**50 J**	**19 NJ**	4.9 U
Endosulfan sulfate	ug/kg	3.8 U	**78 J**	4.3 U	96 R	4.6 U	97 R	6.7 U	6.2 U	4.1 U	3.8 U	12 R	50 R	13 R	29 R	5.3 U	**22 NJ**	5.5 U	**27 NJ**
Endrin	ug/kg	3.8 U	5.9 U	4.3 U	7.8 UJ	4.6 U	6.6 U	6.7 U	6.2 U	4.1 U	3.8 U	4.1 U	5.8 U	5.1 U	**7 NJ**	**6.4 NJ**	41 R	5.5 U	4.9 UJ
Endrin aldehyde	ug/kg	**8.1 NJ**	5.9 U	4.3 U	25 R	4.6 U	6.6 U	6.7 U	6.2 U	4.1 U	3.8 U	**5.4 NJ**	13 R	13 R	**36 NJ**	5.3 U	**23**	**13 NJ**	**12 J**
Endrin ketone	ug/kg	10 R	**31 J**	4.3 U	24 R	4.6 U	6.6 U	6.7 U	6.2 U	4.1 U	3.8 U	4.1 U	15 R	**13 J**	4 U	5.3 U	16 R	5.5 U	13 R
Gamma BHC	ug/kg	1.9 U	3 U	2.2 U	4 U	2.4 U	3.4 U	3.5 U	3.2 U	2.1 U	1.9 U	2.1 U	3 U	2.6 U	2 U	2.7 U	3.1 U	2.8 U	2.5 U
Gamma-chlordane	ug/kg	**13 J**	**28 J**	19 R	38 R	2.4 U	3.4 U	3.5 U	**5.1 J**	2.1 UJ	2.3 R	4.2 R	15 R	3.7 R	13 R	2.7 U	29 R	32 R	13 R
Heptachlor	ug/kg	1.9 U	3 U	2.2 U	**110 NJ**	2.9 R	3.4 UJ	3.5 UJ	3.2 UJ	2.1 U	1.9 U	2.1 U	**5.1 NJ**	2.6 U	2 UJ	2.7 U	**5.1 J**	2.8 U	2.5 U
Heptachlor epoxide	ug/kg	**1 J**	**1.5 J**	6.3 R	**120 NJ**	4.4 R	3.4 U	**7.3 J**	**6 J**	2.1 U	**2.9 J**	**5.1 J**	**17 J**	**5.9 NJ**	9.8 R	2.7 U	3.1 U	**16 J**	2.5 U
Methoxychlor	ug/kg	**51 NJ**	60 R	22 U	**250 J**	24 U	34 U	35 U	32 U	21 U	19 U	21 U	30 U	**27 J**	**80 J**	27 U	31 U	**88 J**	**74 J**
P,P'-DDD	ug/kg	**51 J**	**70 NJ**	**160 J**	**340 J**	**32 J**	**36 J**	**27 J**	**33 NJ**	**18 J**	7.7 R	**26 NJ**	5.8 U	5.1 U	29 R	**10**	**130 J**	**120 J**	**22 NJ**
P,P'-DDE	ug/kg	3.8 UR	**9.5 NJ**	**65 NJ**	**94 NJ**	**23 NJ**	12 R	**16 NJ**	10 R	4.1 UR	**4.5 NJ**	13 R	**12 NJ**	**5.9 NJ**	9.6 R	5.3 UR	43 R	45 R	**11 NJ**
P,P'-DDT	ug/kg	**22 NJ**	**47 NJ**	36 R	**140 J**	16 R	**50 J**	**32 NJ**	**47 NJ**	18 R	**9.3 J**	5.1 R	**40 J**	**15 J**	4 U	**10**	**65 J**	**89 J**	**39 J**
Toxaphene	ug/kg	190 U	300 U	220 U	400 U	240 U	340 U	350 U	320 U	210 U	190 U	210 U	300 U	260 U	200 U	270 U	310 U	280 U	250 U
Total DDTs	ug/kg	**---**	**126.5**	**---**	**574**	**---**	**---**	**75**	**---**	**---**	**---**	**---**	**52**	**20.9**	**---**	**---**	**---**	**---**	**72**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD134	GC-SD134	GC-SD134	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD122	GC-SD136	GC-SD138	GC-SD150	GC-SD150	GC-SD150	GC-SD150	GC-SD151	GC-SD151
Sample Number:		GC-SD134-00.0-02.0	GC-SD134-02.0-04.0	GC-SD134-04.0-04.4	GC-SD135-00.0-02.0	GC-SD135-02.0-04.0	D-04062010-01	GC-SD135-04.0-06.0	GC-SD135-06.0-08.0	GC-SD135-08.0-10.0	GC-SD122-00.0-00.7	GC-SD136-00.0-02.0	GC-SD138-00.0-01.7	GC-SD150-00.0-02.0	GC-SD150-02.0-04.0	GC-SD150-04.0-06.0	GC-SD150-06.0-08.2	GC-SD151-00.0-02.0	GC-SD151-02.0-04.0
Sample Depth:		0-2	2-4	4-4.4	0-2	2-4	2-4	4-6	6-8	8-10	0-0.7	0-2	0-1.7	0-2	2-4	4-6	6-8.2	0-2	2-4
Sample Date:		4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/7/2010	3/22/2010	4/8/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	2.4 U	**4.3 J**	**13 NJ**	3.1 U	2.5 U	2.6 U	2.4 U	2.8 U	2.9 U	3.1 U	3.4 U	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Alpha BHC	ug/kg	2.4 U	2.5 UJ	2.1 U	3.1 U	2.5 U	2.6 U	2.4 U	2.8 U	2.9 U	3.1 U	3.4 U	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Alpha endosulfan	ug/kg	2.4 U	17 R	2.1 U	**5.9 NJ**	**6.3 NJ**	2.6 U	2.4 U	7.5 R	5.5 R	3.1 U	3.4 U	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Alpha-chlordane	ug/kg	**12 J**	**15 J**	**1.5 J**	3.1 U	**26 NJ**	**11 J**	13 R	**36 J**	**44 NJ**	**8.3 J**	**4.1 NJ**	1.9 UJ	4.5 UR	3.4 UR	**2.9 NJ**	**2.9 NJ**	2.6 U	2.3 U
Beta BHC	ug/kg	7.4 R	**7.6 J**	11 R	3.1 U	9.6 R	5.6 R	2.4 U	**39 J**	2.9 U	**8.1**	4.3 R	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Beta endosulfan	ug/kg	4.8 U	9.3 R	**59 J**	6.1 U	5.3 R	5 UJ	4.7 U	5.3 R	5.7 U	6.1 U	6.5 U	3.7 UJ	8.7 U	6.6 U	8.5 U	6.4 U	5 U	4.6 U
Delta BHC	ug/kg	2.4 U	2.5 U	3.6 R	3.1 U	2.5 U	2.6 U	2.4 U	2.8 U	2.9 U	3.1 U	3.4 U	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Dieldrin	ug/kg	4.8 U	7.8 R	**14 NJ**	6.1 U	7.3 R	5 UJ	**21**	**68 J**	5.7 U	**22**	**9.8 J**	3.7 UJ	8.7 U	6.6 U	8.5 U	6.4 UJ	5 U	4.6 U
Endosulfan sulfate	ug/kg	**29 J**	130 R	59 R	6.1 U	**29 NJ**	43 R	11 R	28 R	**26 NJ**	6.1 U	**41 J**	3.7 UJ	8.7 U	**4 J**	8.5 U	6.4 U	5 U	4.6 U
Endrin	ug/kg	**4.8 J**	4.8 U	4.1 U	9.8 R	**140 J**	**32 NJ**	**29**	7.3 R	9 R	6.1 U	6.5 UJ	3.7 UJ	8.7 U	6.6 U	8.5 U	6.4 U	5 U	4.6 U
Endrin aldehyde	ug/kg	8.1 R	29 R	4.1 U	**8.3**	25 R	**21 NJ**	**15**	**35 J**	**30 J**	**9**	**10 NJ**	3.7 UJ	8.7 U	6.6 U	**6.2 J**	6.4 U	5 U	4.6 U
Endrin ketone	ug/kg	6.2 R	**30 J**	**45 J**	**5.5 J**	15 R	**16 NJ**	7.3 R	25 R	13 R	**8.4**	**23 J**	3.7 UJ	8.7 U	6.6 U	8.5 U	6.4 U	5 U	4.6 U
Gamma BHC	ug/kg	**4.4 J**	2.5 U	2.1 U	3.1 U	**5.1 J**	**3.2 NJ**	2.4 U	2.8 U	3.8 R	**3.8 NJ**	3.4 U	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Gamma-chlordane	ug/kg	50 R	36 R	**35 NJ**	5.9 R	**120 J**	72 R	14 R	41 R	60 R	**39 J**	5.1 R	1.9 UJ	4.5 UJ	**3.6 NJ**	4.4 U	3.3 U	2.6 U	2.3 U
Heptachlor	ug/kg	4 R	2.5 UJ	2.1 U	3.1 U	2.5 U	2.6 U	**9.9 J**	**42 J**	**50 J**	**8.7 NJ**	**4.5 NJ**	1.9 UJ	4.5 U	**2.1 J**	**6.3 NJ**	**3.1 J**	2.6 U	2.3 U
Heptachlor epoxide	ug/kg	**27 J**	7.2 R	4.3 R	3.1 U	**130 J**	**41 J**	**50 J**	**190 J**	16 R	3.1 U	**14 J**	1.9 UJ	4.5 U	3.4 U	4.4 U	3.3 U	2.6 U	2.3 U
Methoxychlor	ug/kg	**54 NJ**	**140 J**	**180 J**	**28 J**	**81 J**	**92 J**	24 U	130 R	37 R	**45**	**87 NJ**	19 UJ	45 U	34 U	44 U	33 U	26 U	23 U
P,P'-DDD	ug/kg	**47 NJ**	**290 J**	**140 NJ**	6.1 U	29 R	26 R	**55**	**210 J**	**270 J**	**83**	**21 J**	3.7 UJ	8.7 U	6.6 U	8.5 U	**17 NJ**	5 U	4.6 U
P,P'-DDE	ug/kg	**29 NJ**	4.8 UR	4.1 UR	**12 NJ**	**52 NJ**	**50 NJ**	**38 NJ**	**98 NJ**	**110 NJ**	**24 NJ**	**13 NJ**	3.7 UR	8.7 UR	6.6 UJ	**11 NJ**	**21**	5 UR	4.6 UR
P,P'-DDT	ug/kg	26 R	**57 J**	**33 NJ**	6.1 U	**140 J**	**64 J**	4.8 R	**110 J**	**120 J**	**29**	**26 NJ**	3.7 UJ	8.7 U	6.6 U	8.5 U	6.4 U	5 U	4.6 U
Toxaphene	ug/kg	240 U	250 U	210 U	310 U	250 U	260 U	240 U	280 U	290 U	310 U	340 U	190 UJ	450 U	340 U	440 U	330 U	260 U	230 U
Total DDTs	ug/kg	---	---	---	**12**	---	---	---	**418**	**500**	**136**	**60**	---	---	ND	**11**	**38**	---	---

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD151	GC-SD123	GC-SD123	GC-SD123	GC-SD123	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD140	GC-SD140	GC-SD140	GC-SD141	GC-SD141
Sample Number:		GC-SD151-04.0-04.8	GC-SD123-00.0-02.0	GC-SD123-02.0-04.0	GC-SD123-04.0-06.0	GC-SD123-06.0-06.8	GC-SD139-00.0-02.0	GC-SD139-02.0-04.0	GC-SD139-04.0-06.0	GC-SD139-06.0-08.0	GC-SD139-08.0-10.0	GC-SD139-10.0-12.0	D-04132010-01	GC-SD139-12.0-12.8	GC-SD140-00.0-02.0	GC-SD140-02.0-04.0	GC-SD140-04.0-06.0	GC-SD141-00.0-02.0	GC-SD141-02.0-04.0
Sample Depth:		4-4.8	0-2	2-4	4-6	6-6.8	0-2	2-4	4-6	6-8	8-10	10-12	10-12	12-12.8	0-2	2-4	4-6	0-2	2-4
Sample Date:		4/12/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010	4/14/2010	4/14/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	2.6 U	**22 NJ**	2.9 U	2.4 U	2.9 U	3 U	2.4 U	3 U	4.2 U	120 U	3.8 U	3.6 U
Alpha BHC	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	2.6 U	2.7 U	2.9 U	2.4 U	2.9 U	3 U	2.4 U	3 U	4.2 U	120 U	3.8 U	3.6 U
Alpha endosulfan	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	**14 J**	21 R	**36 J**	2.4 U	**3.8 J**	**4 J**	2.4 UJ	3 U	4.2 U	120 U	3.8 U	3.6 U
Alpha-chlordane	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	4.6 R	2.2 U	13 R	**26 NJ**	**32 J**	**5.3 J**	2.9 U	3 UJ	2.4 U	3 U	**4.7 NJ**	120 U	**6.4 NJ**	**11 NJ**
Beta BHC	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	4.6 R	**26 J**	**20 J**	2.4 UJ	2.9 U	3 U	2.4 U	3 U	4.2 U	120 U	3.8 U	**8 J**
Beta endosulfan	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	6.6 UJ	4.3 U	5 U	5.3 U	5.6 U	6 R	**7.1 J**	5.8 UJ	4.7 U	5.9 U	8.2 U	240 U	7.4 U	7 U
Delta BHC	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	2.6 U	2.7 U	9.8 R	2.4 U	2.9 U	3 U	2.4 U	3 U	**32**	**150**	3.8 U	**32**
Dieldrin	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	6.6 UJ	4.3 U	11 R	**32 J**	45 R	4.7 U	5.7 U	5.9 U	4.7 U	5.9 U	**9.2**	240 U	7.4 U	**17 J**
Endosulfan sulfate	ug/kg	4.3 U	8.7 U	**5.1 J**	8.7 UJ	10 R	4.3 U	46 R	**130 J**	67 R	12 R	5.7 U	27 R	4.7 U	5.9 U	8.2 U	240 U	7.4 U	**15**
Endrin	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	6.6 UJ	4.3 U	5 UJ	5.3 U	5.6 U	4.7 U	5.7 U	5.9 U	4.7 U	5.9 U	8.2 U	240 U	7.4 U	7 U
Endrin aldehyde	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	**8.2 J**	4.3 U	11 R	**14 J**	17 R	4.7 U	5.7 U	5.9 UJ	**13 J**	5.9 U	8.2 U	240 U	**8.8 NJ**	7 U
Endrin ketone	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	6.6 UJ	4.3 U	**11 J**	**17 J**	18 R	**7.2 J**	11 R	**12 J**	4.7 U	5.9 U	8.2 U	240 U	7.4 U	7 U
Gamma BHC	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	**4.5 J**	8 R	15 R	2.4 U	2.9 U	3 U	2.4 U	3 U	4.2 U	120 U	3.8 U	3.6 U
Gamma-chlordane	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	17 R	130 R	13 R	8.1 R	2.9 U	5.6 R	2.9 R	5.8 R	24 R	120 U	24 R	26 R
Heptachlor	ug/kg	2.2 U	4.5 U	4.6 UJ	**5.6 NJ**	**2.4 J**	2.2 U	2.6 U	**38 J**	2.9 U	2.4 U	2.9 U	3 U	2.4 U	3 U	**6.9 J**	120 U	**5.6 J**	**7.8 NJ**
Heptachlor epoxide	ug/kg	2.2 U	4.5 U	4.6 UJ	4.5 UJ	3.4 UJ	2.2 U	11 R	4.6 R	22 R	2.5 R	2.9 U	3 UJ	2.4 U	3 U	**24 NJ**	**130 J**	3.8 U	**33 NJ**
Methoxychlor	ug/kg	22 U	45 U	46 UJ	45 UJ	34 UJ	22 U	**74 J**	**69 J**	**90 J**	24 U	29 U	**33 J**	**47 NJ**	30 U	42 U	1,200 U	38 U	**20 J**
P,P'-DDD	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	**22 J**	**6.4 J**	59 R	**90 J**	**120 NJ**	**71 J**	**67 J**	**58 J**	**14 J**	**9.1 J**	**21 J**	240 U	**25**	**52**
P,P'-DDE	ug/kg	4.3 UR	8.7 UR	**8.8 NJ**	**10 NJ**	18 R	4.3 U	25 R	59 R	42 R	**28 J**	**50 J**	**38 J**	**8.7 J**	5.9 U	**20 NJ**	240 U	12 R	28 R
P,P'-DDT	ug/kg	4.3 U	8.7 U	8.9 UJ	8.7 UJ	6.6 UJ	6.5 R	23 R	**44 NJ**	41 R	12 R	5.7 U	8.5 R	**23 J**	**6.8 J**	17 R	240 U	14 R	43 R
Toxaphene	ug/kg	220 U	450 U	460 UJ	450 UJ	340 UJ	220 U	260 U	270 U	290 U	240 U	290 U	300 U	240 U	300 U	420 U	12,000 U	380 U	360 U
Total DDTs	ug/kg	---	---	**8.8**	**10**	---	---	---	---	---	---	**117**	---	**45.7**	**15.9**	---	ND	---	---

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:	GC-SD141	GC-SD142	GC-SD142	GC-SD143	GC-SD143	GC-SD144C	GC-SD144C	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-2
Sample Number:	GC-SD141-04.0-05.7	GC-SD142-00.0-02.0	GC-SD142-02.0-03.8	GC-SD143-00.0-02.0	GC-SD143-02.0-02.9	GC-SD144C-00.0-02.0	GC-SD144C-02.0-03.3	ERT1-1-A	ERT1-1-B	ERT1-1-C	ERT1-1-D	ERT1-1-E	ERT1-1-F	ERT1-2-A	ERT1-2-B	ERT1-2-C	ERT1-2-D	ERT1-2-E
Sample Depth:	4-5.7	0-2	2-3.8	0-2	2-2.9	0-2	2-3.3	0-0.5	0.5-1	1-2	2-3	3-4	4-5.4	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:	4/12/2010	4/15/2010	4/15/2010	4/14/2010	4/14/2010	4/13/2010	4/13/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																
Aldrin	ug/kg	2.8 U	4 U	3.1 U	4.2 U	4 U	2.6 U	2.9 U	3.4 U	4.3 UJ	**69 J**	6.5 R	16 R	29 UJ	13 R	3.2 R	2.2 U	2.9 U	3 U
Alpha BHC	ug/kg	2.8 U	4 U	3.1 U	4.2 U	4 U	2.6 U	2.9 U	3.4 U	**18 NJ**	4.5 U	4.1 U	4.5 U	**18 J**	3.2 U	2.5 U	2.2 U	2.9 U	3 U
Alpha endosulfan	ug/kg	2.8 U	4 U	3.1 U	4.2 U	4 U	2.6 U	2.9 U	3.4 UJ	7.5 R	4.5 U	4.2 R	4.5 U	**11 J**	3.2 U	5.4 R	2.2 U	2.9 UJ	3 UJ
Alpha-chlordane	ug/kg	**15 J**	**4.7 NJ**	3.1 U	**5.9 NJ**	4 U	2.6 U	2.9 U	**8.4 J**	**80 NJ**	**31 J**	**42 NJ**	**210 J**	29 U	**44 J**	28 R	12 R	**41 NJ**	**59 J**
Beta BHC	ug/kg	**5.6 J**	**6.1 NJ**	3.1 U	4.2 U	4 U	2.6 U	2.9 U	3.4 U	4.3 U	4.5 U	4.1 U	4.5 U	39 R	65 R	2.5 U	2.2 U	29 R	46 R
Beta endosulfan	ug/kg	5.4 U	7.7 U	5.9 UJ	8.2 U	7.8 U	5.1 U	5.7 U	6.6 U	**47 NJ**	**45 NJ**	9.5 R	26 R	57 U	6.2 U	4.8 U	4.2 U	5.7 U	5.9 UJ
Delta BHC	ug/kg	2.8 U	**21**	**8.2 NJ**	**23 J**	**12 J**	2.6 U	2.9 U	**3.6 J**	**13 J**	4.5 U	4.1 UJ	4.5 U	29 U	3.2 U	2.5 U	2.2 U	**4.6 J**	**6.4 J**
Dieldrin	ug/kg	12 R	**6.5 J**	5.9 U	**7.5 J**	7.8 U	5.1 U	5.7 U	10 R	**29 NJ**	14 R	**55 NJ**	**140 NJ**	**100 NJ**	**29 J**	**18 J**	**7.3 NJ**	**40 NJ**	**42 J**
Endosulfan sulfate	ug/kg	20 R	8.5 R	5.9 UJ	8.2 U	7.8 U	10 R	5.7 U	**15 J**	56 R	29 R	**38 J**	**130 J**	57 U	**28 J**	**23 J**	4.2 UJ	5.7 UJ	5.9 U
Endrin	ug/kg	5.4 UJ	7.7 U	5.9 UJ	8.2 U	7.8 U	5.1 U	5.7 U	6.6 U	23 R	8.7 U	8 U	8.7 U	57 UJ	12 R	**15 NJ**	4.2 U	**8.3 J**	5.9 U
Endrin aldehyde	ug/kg	**20 J**	**6.5 J**	5.9 UJ	8.2 U	7.8 U	5.1 U	5.7 U	6.6 U	**38 NJ**	84 R	52 R	**160 J**	57 U	28 R	**33 NJ**	5.5 R	5.7 U	**31 J**
Endrin ketone	ug/kg	5.4 U	7.7 U	**23 J**	8.2 U	7.8 U	**6.3 J**	5.7 U	6.6 U	20 R	130 R	8 U	80 R	89 R	6.2 U	4.8 U	4.2 U	5.7 U	**190 J**
Gamma BHC	ug/kg	2.8 UJ	4 U	3.1 U	4.2 U	4 U	2.6 U	2.9 U	3.4 U	4.3 U	4.5 U	4.1 U	4.5 U	29 UJ	3.2 U	2.5 U	2.2 U	2.9 U	3 U
Gamma-chlordane	ug/kg	2.8 U	15 R	3.1 U	**5.7 NJ**	4 U	3.9 R	2.9 U	13 R	**110 NJ**	**200 J**	100 R	**330 J**	**220 NJ**	86 R	**31 NJ**	**14 J**	**60 J**	**110 NJ**
Heptachlor	ug/kg	**11 J**	**6 NJ**	**2.8 J**	**4.4 J**	4 U	2.6 U	2.9 U	3.4 UJ	4.3 U	4.5 U	4.1 U	4.5 U	29 UJ	3.2 U	2.5 UJ	2.2 UJ	2.9 UJ	3 U
Heptachlor epoxide	ug/kg	**35 J**	17 R	**12 NJ**	**20 J**	**12**	2.6 U	2.9 U	**11 J**	**68 NJ**	**66 J**	19 R	21 R	47 R	**9.6 J**	12 R	2.2 U	2.9 U	**11 J**
Methoxychlor	ug/kg	**36 J**	40 U	31 U	42 U	40 U	26 U	29 U	**39 J**	**150 NJ**	180 R	110 R	**150 NJ**	290 U	160 R	57 R	22 UJ	**52 J**	130 R
P,P'-DDD	ug/kg	**140 J**	**23 J**	9.1 R	**12 NJ**	7.8 U	**28 J**	5.7 U	**21 J**	**81 J**	**100 J**	**64 J**	**910 J**	**510**	**150 J**	**72 J**	**31 J**	**91 J**	**110 J**
P,P'-DDE	ug/kg	71 R	16 R	6.2 R	**15 NJ**	**10 J**	**10 J**	5.7 U	**14 NJ**	**70 J**	**150 J**	**70 J**	8.7 U	**460**	**57 J**	41 R	14 R	**75 J**	**52 NJ**
P,P'-DDT	ug/kg	**36 NJ**	**18 J**	**13 J**	18 R	12 R	5.1 U	5.7 U	**11 NJ**	**17 J**	110 R	**34 J**	**62 NJ**	**200 NJ**	**86 NJ**	**18 J**	**7.8 NJ**	**21 NJ**	**20 NJ**
Toxaphene	ug/kg	280 U	400 U	310 U	420 U	400 U	260 U	290 U	340 U	430 U	450 U	410 U	450 U	2,900 U	320 U	250 U	220 U	290 U	300 U
Total DDTs	ug/kg	---	---	---	---	---	**38**	ND	**46**	**168**	---	**168**	**972**	**1,170**	**293**	---	---	**187**	**182**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT1-2	ERT1-2	ERT1-2	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1
Sample Number:		ERT1-2-F	ERT1-2-G	ERT1-2-H	ERT1-3-A	ERT1-3-B	ERT1-3-C	ERT1-3-D	ERT1-3-E	ERT1-3-F	ERT1-3-G	ERT1-3-H	ERT1-3-I	ERT2-1-A	ERT2-1-B	ERT2-1-C	ERT2-1-D	ERT2-1-E	ERT2-1-F
Sample Depth:		4-5	5-6	6-6.8	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	7-7.7	0-0.5	0.5-1	1-2	2-3	3-4	4-5
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**																		
Aldrin	ug/kg	3.1 U	2.8 UJ	2.4 U	52 U	5.2 U	59 UJ	45 U	46 U	49 U	**26 NJ**	36 U	23 U	4.6 U	4.9 R	**27 J**	52 UJ	45 U	40 U
Alpha BHC	ug/kg	3.1 U	2.8 U	2.4 U	52 U	5.2 U	59 UJ	45 U	46 U	49 U	4.4 R	36 U	23 U	34 R	15 R	46 U	75 R	70 R	40 U
Alpha endosulfan	ug/kg	62 R	**120 NJ**	2.4 UJ	52 U	**4.5 J**	59 UJ	45 U	46 U	49 U	4.4 R	36 U	23 U	4.6 UJ	4.9 R	46 U	52 U	45 U	40 U
Alpha-chlordane	ug/kg	**120 J**	2.8 U	2.4 U	52 U	**23 J**	59 UJ	**68 NJ**	85 R	68 R	**120 NJ**	**170 J**	23 U	**300 J**	4.9 R	**110 J**	**230 NJ**	180 R	**110 NJ**
Beta BHC	ug/kg	3.1 U	2.8 U	2.4 U	52 U	5.2 U	59 UJ	52 R	46 U	60 R	4.4 R	92 R	23 U	11 R	4.9 R	54 R	52 U	45 U	70 R
Beta endosulfan	ug/kg	17 R	5.6 UJ	6.5 R	100 U	10.4 U	110 UJ	87 U	89 U	94 U	16 R	72 U	44 U	68 R	23 R	**51 J**	100 U	87 U	79 U
Delta BHC	ug/kg	3.1 U	**17 NJ**	2.4 U	52 U	5.2 U	59 UJ	45 U	46 U	49 U	4.4 R	36 U	23 U	5.8 R	**8.4 J**	46 U	**25 J**	45 U	40 U
Dieldrin	ug/kg	**200 J**	110 R	40 R	**64 J**	**26**	110 UJ	**81 J**	**130**	**140**	8.5 R	**300**	44 U	13 R	**21 J**	89 U	100 UJ	**110 J**	**170**
Endosulfan sulfate	ug/kg	**160 J**	**230 J**	**50 J**	100 U	**12 NJ**	110 UJ	87 U	89 U	94 U	**130 J**	78 R	44 U	77 R	23 R	89 U	100 U	170 R	110 R
Endrin	ug/kg	**110 J**	**220 NJ**	**180 NJ**	100 U	**6 J**	110 UJ	87 U	89 U	94 U	8.5 R	72 U	44 U	**140 J**	11 R	89 U	100 UJ	87 U	79 U
Endrin aldehyde	ug/kg	**160 NJ**	**97 J**	**87 NJ**	100 U	10.4 U	110 UJ	93 R	89 U	94 U	**210 J**	72 U	44 U	**59 NJ**	32 R	89 U	100 U	87 U	79 U
Endrin ketone	ug/kg	**160 J**	**210 NJ**	160 R	100 U	10.4 U	110 UJ	87 U	89 U	94 U	**120 J**	130 R	44 U	**60 J**	9.4 R	89 U	100 U	87 U	79 U
Gamma BHC	ug/kg	3.1 U	19 R	18 R	52 U	5.2 U	59 UJ	45 U	46 U	49 U	4.4 R	36 U	23 U	29 R	4.9 R	46 U	52 UJ	45 U	40 U
Gamma-chlordane	ug/kg	**300 NJ**	2.8 U	**170 NJ**	62 R	53 R	69 R	120 R	180 R	170 R	**320 NJ**	**330**	23 U	**220 J**	50 R	49 R	150 R	210 R	270 R
Heptachlor	ug/kg	3.1 U	2.8 UJ	2.4 U	52 U	5.2 U	59 UJ	45 U	46 U	49 U	4.4 R	36 U	23 U	4.6 U	4.9 UJ	**24 J**	52 U	45 U	40 U
Heptachlor epoxide	ug/kg	**63 J**	23 R	**66 J**	**18 J**	7.2 R	59 UJ	45 U	**72**	49 U	27 R	36 U	23 U	84 R	**37 NJ**	**180**	**280 NJ**	**380 J**	81 R
Methoxychlor	ug/kg	480 R	**800 NJ**	570 R	520 U	**52**	590 UJ	450 U	460 U	490 U	**160 J**	360 U	230 U	**280 NJ**	**170 NJ**	460 U	**470 J**	450 U	400 U
P,P'-DDD	ug/kg	**300 J**	**610 J**	**130 J**	100 U	**30 NJ**	**70 J**	**150 J**	**180 J**	94 U	**320 J**	**870**	**76**	**110 J**	**33 J**	**79 J**	**180 NJ**	**250**	**430**
P,P'-DDE	ug/kg	**140 NJ**	140 R	110 R	100 U	**38 J**	**72 J**	120 R	**140**	**130**	41 R	**410**	44 U	110 R	100 R	**69 J**	**210 J**	**280**	**250 NJ**
P,P'-DDT	ug/kg	640 R	**570 J**	**250 J**	100 U	**22 NJ**	110 UJ	87 U	89 U	94 U	120 R	170 R	**41 J**	17 R	9.8 UJ	89 U	100 U	87 U	110 R
Toxaphene	ug/kg	310 U	280 U	240 U	5,200 U	520 U	5,900 UJ	4,500 U	4,600 U	4,900 U	440 R	3,600 U	2,300 U	460 U	490 R	4,600 U	5,200 U	4,500 U	4,000 U
Total DDTs	ug/kg	**---**	**---**	**---**	ND	**90**	**142**	**---**	**320**	**130**	**---**	**---**	**117**	**---**	**---**	**148**	**390**	**530**	**---**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-1	ERT2-1	ERT2-1	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3
Sample Number:		FD-02	ERT2-1-G	ERT2-1-H	ERT2-2-A	ERT2-2-B	ERT2-2-C	ERT2-2-D	ERT2-2-E	ERT2-2-F	ERT2-2-G	FD-03	ERT2-2-H	ERT2-2-I	ERT2-3-A	ERT2-3-B	ERT2-3-C	ERT2-3-D	ERT2-3-E
Sample Depth:		4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	5-6	6-7	7-8	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		FD	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	39 U	36 U	39 U	47 U	46 U	45 U	45 U	32 U	33 U	36 U	35 U	28 U	**15 J**	4.1 R	19 U	4.4 R	23 U	35 U
Alpha BHC	ug/kg	45 R	**17 J**	**260 J**	47 U	46 U	45 U	45 U	**130 J**	**48 J**	86 R	40 R	28 U	33 R	**4 J**	19 U	**3.6 J**	23 U	35 U
Alpha endosulfan	ug/kg	**21 J**	**21 J**	**29 J**	47 U	46 U	45 U	45 U	32 U	**29 J**	36 U	35 U	**14 J**	20 U	4.1 R	19 UJ	4.4 UJ	**9.7 J**	35 U
Alpha-chlordane	ug/kg	**89 NJ**	**53 J**	54 R	47 U	46 U	**17 J**	**46 NJ**	**65**	**90 NJ**	**120 NJ**	**110 NJ**	50 R	20 U	**5 J**	19 UJ	**11 J**	23 U	35 U
Beta BHC	ug/kg	51 R	51 R	220 R	47 U	46 U	59 R	45 U	**170 J**	87 R	36 U	35 U	35 R	20 U	4.1 R	19 UJ	4.5 R	23 U	44 R
Beta endosulfan	ug/kg	75 U	70 U	**60 J**	92 U	89 U	**22 J**	87 U	62 U	65 U	70 U	69 U	55 U	40 U	8 UJ	37 UJ	8.5 R	45 UJ	69 U
Delta BHC	ug/kg	39 U	**20 J**	39 U	47 U	46 U	**12 J**	45 U	32 U	**28 J**	**51 NJ**	35 U	28 U	**15 J**	4.1 R	19 U	**4.5 J**	**11 J**	35 U
Dieldrin	ug/kg	**110**	**80 J**	**100**	**40 J**	89 U	87 U	**84 J**	**88**	**130**	**220**	**170 J**	**84 NJ**	40 U	8 UJ	**23 J**	8.5 UJ	**24 J**	**100 NJ**
Endosulfan sulfate	ug/kg	77 R	70 U	75 U	92 U	89 U	87 U	87 U	68 R	80 R	70 U	120 R	**92 NJ**	42 R	8 UJ	37 U	**14 NJ**	**26 J**	69 U
Endrin	ug/kg	75 U	70 U	75 U	92 U	89 U	87 U	87 U	62 U	65 U	86 R	69 U	55 U	43 R	8 UJ	37 U	8.5 UJ	45 U	69 U
Endrin aldehyde	ug/kg	75 U	70 U	75 U	92 U	89 U	87 U	87 U	62 U	65 U	70 U	69 U	55 U	40 U	8 R	37 U	8.5 R	45 U	69 U
Endrin ketone	ug/kg	**72 J**	70 U	75 U	92 U	89 U	87 U	87 R	62 U	65 U	82 R	87 R	55 U	73 R	9.6 R	37 UJ	8.5 UJ	45 UJ	130 R
Gamma BHC	ug/kg	39 U	36 U	39 U	47 U	46 U	45 U	45 U	32 U	33 U	36 U	35 U	28 U	20 U	4.1 R	19 U	4.4 UJ	23 U	35 U
Gamma-chlordane	ug/kg	**140 J**	140 R	120 R	47 U	46 U	45 U	120 R	140 R	190 R	260 R	260 R	110 R	53 R	13 R	19 UJ	19 R	24 R	**140 NJ**
Heptachlor	ug/kg	39 U	36 U	39 U	47 U	46 U	45 U	45 U	32 U	33 U	36 U	35 U	28 U	20 U	4.1 R	19 U	4.4 UJ	23 UJ	35 U
Heptachlor epoxide	ug/kg	**58**	36 U	39 U	**71 J**	**96**	45 U	45 U	40 R	**61 J**	**380 J**	**190 J**	30 R	28 R	5.4 R	19 U	4.4 UJ	23 UJ	35 U
Methoxychlor	ug/kg	390 U	360 U	390 U	**240 J**	460 U	450 U	450 U	320 U	330 U	360 U	350 U	280 U	**350 NJ**	**48 J**	**90 J**	44 R	230 U	350 U
P,P'-DDD	ug/kg	**270 J**	**140**	**140**	**27 J**	**40 J**	**51 J**	**210**	**180**	**260**	**450**	**320**	**160**	**150**	**21 J**	37 UJ	**20 J**	**21 J**	**97 NJ**
P,P'-DDE	ug/kg	**210**	**170**	**76 NJ**	92 U	**50 J**	**30 J**	87 U	**150**	**210**	210 R	**230**	**110**	**94**	**14 J**	**17 J**	**18 J**	**20 J**	**35 J**
P,P'-DDT	ug/kg	100 R	70 U	**120 NJ**	92 U	89 U	87 U	87 U	82 R	95 R	75 R	100 R	68 R	40 U	**10 NJ**	37 U	**13 NJ**	**18 J**	**130**
Toxaphene	ug/kg	3,900 U	3,600 U	3,900 U	4,700 U	4,600 U	4,500 U	4,500 U	3,200 U	3,300 U	3,600 U	3,500 U	2,800 U	2,000 U	410 R	1,900 U	440 R	2,300 U	3,500 U
Total DDTs	ug/kg	**---**	**310**	**336**	**27**	**90**	**81**	**210**	**---**	**---**	**---**	**---**	**---**	**244**	**45**	**17**	**51**	**59**	**262**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2
Sample Number:		ERT2-3-F	ERT2-3-G	ERT2-3-H	ERT2-3-J	ERT3-1-A	ERT3-1-B	ERT3-1-C	ERT3-1-D	ERT3-1-E	ERT3-1-F	ERT3-1-G	ERT3-1-H	ERT3-2-A	ERT3-2-B	ERT3-2-C	ERT3-2-D	ERT3-2-E	ERT3-2-F
Sample Depth:		4-5	5-6	6-7	8-9.4	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4	4-5
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	41 U	38 U	40 UJ	27 U	**52 NJ**	51 R	50 R	2.2 U	2 U	38 R	37 R	**70 NJ**	41 U	4.4 U	18 U	29 U	24 U	29 U
Alpha BHC	ug/kg	41 U	38 U	40 U	31 R	3 U	3 R	2.5 R	2.2 U	2.1 R	2.5 R	3 R	3 R	41 U	**6 J**	**21 NJ**	**30 NJ**	24 U	29 U
Alpha endosulfan	ug/kg	41 U	38 U	40 U	**16 J**	3 U	**340 NJ**	**260 J**	2.2 U	3.3 R	360 R	270 R	280 R	41 U	4.4 U	18 U	29 U	24 U	**17 J**
Alpha-chlordane	ug/kg	53 R	**170 NJ**	**180 NJ**	**32**	**59 J**	**110 J**	47 UJ	**36 J**	**15 J**	**140 J**	**92 NJ**	**76 NJ**	41 U	4.4 U	18 U	29 U	**48**	**66 NJ**
Beta BHC	ug/kg	41 U	68 R	100 R	56 R	3 U	**240 J**	2.5 R	2.2 U	2 U	22 R	26 R	3 R	41 U	50 R	18 U	29 U	30 R	29 U
Beta endosulfan	ug/kg	80 U	73 U	80 U	**24 J**	**52 NJ**	**90 J**	**44 J**	15 R	3.9 UJ	**60 J**	5.8 R	5.8 R	80 U	19 R	35 UJ	57 U	46 U	56 U
Delta BHC	ug/kg	41 U	38 U	40 U	27 U	3 U	3 R	2.5 R	2.2 U	2 U	2.5 R	3 R	3 R	41 U	4.4 U	18 U	**17 J**	24 U	29 U
Dieldrin	ug/kg	**89 J**	**220**	**250 J**	57 R	96 R	5.9 R	**61 NJ**	**37**	**13 J**	**66 J**	**57 NJ**	5.8 R	**76 J**	**14 J**	**50 J**	**93**	**47**	**120**
Endosulfan sulfate	ug/kg	**66 J**	73 U	**94 NJ**	**150**	56 R	65 R	58 R	**25 NJ**	9.1 R	**180 J**	**130 J**	**220 NJ**	80 U	12 R	45 R	71 R	46 U	62 R
Endrin	ug/kg	80 U	73 U	**46 J**	**44 J**	5.9 U	**110 J**	**62 NJ**	**30 NJ**	3.9 U	**110 J**	8.6 R	5.8 R	80 U	9 R	35 U	57 U	46 U	56 U
Endrin aldehyde	ug/kg	80 U	73 U	80 U	54 U	**59 J**	**110 J**	**60 NJ**	43 R	3.9 U	**96 NJ**	**170 NJ**	40 R	80 U	28 R	35 UJ	57 U	46 U	56 U
Endrin ketone	ug/kg	80 U	79 R	88 R	58 R	**41 J**	**110 J**	**57 NJ**	**38**	**11 J**	**85 J**	**98 J**	**96 J**	80 U	19 R	35 U	57 U	46 U	56 U
Gamma BHC	ug/kg	41 U	38 U	40 UJ	27 U	3 U	**47 NJ**	2.5 R	2.2 U	2 U	60 R	3 R	**110 J**	41 U	4.4 U	18 U	29 U	24 U	29 U
Gamma-chlordane	ug/kg	130 R	**370 NJ**	**410**	**120**	**56 J**	**99 J**	**74 J**	**25 NJ**	**11 J**	**150 NJ**	**210 NJ**	**100 J**	41 U	33 R	**70 J**	90 R	**43 J**	**160 NJ**
Heptachlor	ug/kg	41 U	38 U	40 UJ	**24 J**	3 U	3 R	2.5 R	2.2 U	2 U	2.5 R	3 R	3 R	41 U	4.4 U	18 U	29 U	24 U	29 U
Heptachlor epoxide	ug/kg	**37 J**	38 U	61 R	**38 NJ**	34 R	59 R	29 R	16 R	3.3 R	**92 NJ**	57 R	**48 J**	**45 J**	**25 J**	**28 J**	**38**	24 U	**62 J**
Methoxychlor	ug/kg	410 U	380 U	400 U	270 U	**170 J**	140 R	**130 J**	**58 NJ**	32 R	280 R	340 R	240 R	**330 J**	**85 J**	180 U	290 U	240 U	290 U
P,P'-DDD	ug/kg	**92 J**	**560**	**620**	**170 J**	**180 J**	**250 J**	**200 J**	**100 J**	**57 J**	**420 J**	**870 J**	**480 J**	80 U	**43 J**	**190 J**	**220**	**130**	**300**
P,P'-DDE	ug/kg	**89 J**	**300 J**	**380**	**150**	93 UJ	140 UJ	90 UJ	4.2 U	**24 J**	460 UJ	1,200 UJ	900 UJ	**36 J**	**23 NJ**	78 R	**100 NJ**	68 R	**150 J**
P,P'-DDT	ug/kg	80 U	**490 J**	**1,300 J**	**320 J**	**54 NJ**	**48 J**	**73 J**	**71 J**	**9.8 J**	**53 J**	**260 NJ**	43 R	80 U	14 R	49 R	57 U	46 U	76 R
Toxaphene	ug/kg	4,100 U	3,800 U	4,000 U	2,700 U	300 U	300 R	250 R	220 U	200 U	250 R	300 R	300 R	4,100 U	440 U	1,800 U	2,900 U	2,400 U	2,900 U
Total DDTs	ug/kg	**181**	**1,350**	**2,300**	**640**	**234**	**298**	**273**	**171**	**90.8**	**473**	**1,130**	**---**	**36**	**---**	**---**	**320**	**---**	**---**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT3-2	ERT3-2	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3
Sample Number:		ERT3-2-G	ERT3-2-H	ERT3-3-A	ERT3-3-B	ERT3-3-C	ERT3-3-D	ERT3-3-E	FD-06	ERT3-3-F	ERT3-3-G	ERT3-3-H	ERT3-3-I	ERT3-3-J	ERT4-3-A	ERT4-3-B	ERT4-3-C	ERT4-3-D	ERT4-3-E
Sample Depth:		5-6	6-7.4	0-0.5	0.5-1	1-2	2-3	3-4	3-4	4-5	5-6	6-7	7-8	8-8.6	0-0.5	0.5-1	1-2	2-3	3-4
Sample Date:		1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	41 UJ	31 U	33 U	30 U	23 U	4.7 U	4.5 U	21 U	41 U	35 U
Alpha BHC	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	**28 J**	**40 NJ**	33 U	**230 J**	**700 J**	4.7 U	4.5 U	21 U	**29 J**	35 U
Alpha endosulfan	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	41 U	31 U	33 U	30 U	23 U	4.7 U	4.5 U	21 U	41 U	**12 J**
Alpha-chlordane	ug/kg	**110**	**41 J**	21 UJ	**5.4 J**	**5 J**	**36 J**	**50 NJ**	**47 J**	**43 NJ**	**51**	33 U	**30 J**	**600 J**	**3.2 J**	4.5 U	21 UJ	**57 J**	**45 J**
Beta BHC	ug/kg	29 U	21 U	21 UJ	21 U	21 U	46 U	40 U	57 R	56 R	31 U	33 U	30 U	**750 J**	4.7 U	4.5 U	21 UJ	53 R	35 U
Beta endosulfan	ug/kg	57 U	41 U	41 U	41 U	41 U	89 U	77 U	92 U	80 U	61 U	63 U	58 U	74 R	9.2 U	8.7 U	41 U	82 U	69 U
Delta BHC	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	41 U	31 U	33 U	30 U	**110**	4.7 U	4.5 U	21 U	41 U	35 U
Dieldrin	ug/kg	**190**	**57 J**	41 UJ	**13 J**	**13 J**	**55 J**	**99**	**73 J**	**70 J**	**67 J**	**62 J**	**85**	45 U	9.2 U	**6.1 J**	41 UJ	**85**	**78**
Endosulfan sulfate	ug/kg	110 R	41 U	41 U	41 U	41 U	89 U	**99 NJ**	**120 NJ**	80 U	61 U	63 U	58 U	45 U	9.2 U	8.7 U	**29 J**	82 U	74 R
Endrin	ug/kg	57 U	41 U	41 U	41 U	41 U	89 U	77 U	92 U	80 U	61 U	63 U	58 U	**380 NJ**	9.2 U	8.7 U	41 U	82 U	69 U
Endrin aldehyde	ug/kg	57 U	57 R	41 U	41 U	41 U	89 U	77 U	92 U	80 U	61 U	63 U	58 U	**64 J**	9.2 U	8.7 U	41 U	**160 NJ**	69 U
Endrin ketone	ug/kg	57 U	45 R	41 U	41 U	41 U	89 U	80 R	98 R	80 U	61 U	63 U	58 U	280 R	**3.2 J**	8.7 U	41 UJ	82 U	**22 J**
Gamma BHC	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	41 UJ	31 U	33 U	30 U	26 R	4.7 U	4.5 U	21 U	41 U	35 U
Gamma-chlordane	ug/kg	**220 J**	61 R	21 UJ	21 U	21 U	76 R	120 R	96 R	91 R	86 R	84 R	140 R	**520 NJ**	5.9 R	6.8 R	21 UJ	110 R	92 R
Heptachlor	ug/kg	29 U	21 U	21 U	21 U	21 U	46 U	40 U	47 U	41 UJ	31 U	33 U	30 U	23 U	4.7 U	4.5 U	21 U	41 U	**21 J**
Heptachlor epoxide	ug/kg	45 R	21 U	**10 J**	**9.8 J**	**6.1 J**	**27 J**	**43 NJ**	47 U	41 U	31 U	33 U	**110 J**	**200 NJ**	4.7 U	4.5 U	21 UJ	**55**	35 U
Methoxychlor	ug/kg	290 U	210 U	210 U	210 U	210 U	460 U	400 U	470 U	410 U	310 U	330 U	300 U	**1,000 J**	47 U	45 U	210 U	410 U	350 U
P,P'-DDD	ug/kg	**540**	**170 J**	**23 J**	**12 J**	**21 J**	**130 J**	**140**	**120**	**100 J**	**160**	**120**	**130**	**350**	**10 NJ**	**12**	**33 J**	**230**	**170 J**
P,P'-DDE	ug/kg	**260**	**77**	41 UJ	**11 J**	**13 J**	**74 J**	**120**	**100**	110 R	**110 J**	**110**	**250 J**	**380 NJ**	9.2 U	**8.4 J**	41 UJ	**130 J**	**130 NJ**
P,P'-DDT	ug/kg	98 R	41 U	**18 J**	41 U	**28 J**	89 U	86 R	92 U	80 UJ	**87 NJ**	63 U	60 R	**130 NJ**	9.2 U	8.7 U	**44 J**	**83 NJ**	69 U
Toxaphene	ug/kg	2,900 U	2,100 U	2,100 U	2,100 U	2,100 U	4,600 U	4,000 U	4,700 U	4,100 U	3,100 U	3,300 U	3,000 U	2,300 U	470 U	450 U	2,100 U	4,100 U	3,500 U
Total DDTs	ug/kg	**---**	**247**	**41**	**23**	**62**	**204**	**---**	**220**	**---**	**357**	**230**	**---**	**860**	**10**	**20.4**	**77**	**443**	**300**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

	Station Location:	ERT4-3	ERT4-3	ERT4-3	GC-SED-01	GC-SED-01	GC-SED-02	GC-SED-02	GC-SED-03	GC-SED-03	GC-SED-04	GC-SED-04	GC-SED-05	GC-SED-07	GC-SED-07	GC-SED-08	GC-SED-09B	GC-SED-10	GC-SED-100
	Sample Number:	ERT4-3-F	ERT4-3-G	ERT4-3-H	GC-SED-01(1-2.5)	GC-SED-01(16-17)	GC-SED-02(1-2)	GC-SED-02(9.6-10.6)	GC-SED-03(0-1.5)	GC-SED-03(7.5-9.3)	GC-SED-04(0-2)	GC-SED-04(10.3-11.3)	GC-SED-05(0-2)	GC-SED-07(0-2.5)	GC-SED-07(7.5-8.5)	GC-SED-08(1-2)	GC-SED-09(6-7)	GC-SED-10(0-1.5)	GC-SED-100(5-6)
	Sample Depth:	4-5	5-6	6-7.3	1-2.5	16-17	1-2	9.6-10.6	0-1.5	7.5-9.3	0-2	10.3-11.3	0-2	0-2.5	7.5-8.5	1-2	6-7	0-1.5	5-6
	Sample Date:	1/29/2010	1/29/2010	1/29/2010	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/23/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/21/2005	1/28/2006
	Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	34 U	31 U	30 U	10 U	30 U	10 U	30 U	**2.8 J**	**10 J**	20 U	10 U	10 U	20 U	20 U	**10 J**	80 U	60 U	520 U
Alpha BHC	ug/kg	34 U	31 U	**28 J**	10 U	**10 J**	10 U	30 U	5.4 U	30 U	20 U	**10**	9.7 U	20 U	20 U	20 U	70 U	50 U	**440 J**
Alpha endosulfan	ug/kg	34 U	31 U	30 U	10 U	30 U	10 U	30 U	5.4 U	30 U	20 U	10 U	9.7 U	20 U	20 U	20 U	70 U	50 U	440 U
Alpha-chlordane	ug/kg	**52 NJ**	35 R	**47 NJ**	10 U	30 U	10 U	**60 J**	5.4 U	**40 NJ**	20 U	10 U	9.7 U	**30 NJ**	20 U	**20 NJ**	**80 NJ**	50 U	440 U
Beta BHC	ug/kg	34 U	39 R	52 R	**6.5 J**	30 U	10 U	30 U	5.4 U	**10 J**	**8.2 J**	**20 NJ**	9.7 U	**20 J**	20 U	20 U	70 U	50 U	440 U
Beta endosulfan	ug/kg	66 U	60 U	58 U	30 U	60 U	20 U	50 U	**6.4 J**	70 U	30 U	20 U	10 U	40 U	40 U	40 U	150 U	100 U	850 U
Delta BHC	ug/kg	34 U	31 U	30 U	**10 J**	**30 J**	10 UJ	30 UJ	**5.5 J**	30 UJ	**10 J**	**9.7 J**	**10 J**	**30 NJ**	**10 J**	20 UR	70 UJ	50 UJ	440 UR
Dieldrin	ug/kg	**100**	**70**	**85**	30 U	60 U	20 U	50 U	10 U	70 U	30 U	20 U	10 U	40 U	40 U	40 U	**80 J**	100 U	**140 J**
Endosulfan sulfate	ug/kg	92 R	60 U	58 U	30 U	60 U	20 U	50 U	10 U	70 U	30 UJ	**50 NJ**	10 UJ	40 U	40 U	40 UJ	150 UJ	100 UJ	850 U
Endrin	ug/kg	66 U	60 U	58 U	40 U	90 U	30 U	80 U	10 U	110 U	50 U	40 U	20 U	60 U	60 U	60 U	220 U	150 U	1,300 U
Endrin aldehyde	ug/kg	66 U	60 U	58 U	30 U	60 U	20 U	50 U	10 U	70 U	30 UJ	20 UJ	**8.4 J**	**20 J**	**30 J**	40 UJ	**50 J**	100 U	850 U
Endrin ketone	ug/kg	66 U	60 U	58 U	30 UJ	60 UJ	20 UJ	50 UJ	10 U	70 UJ	**10 J**	20 U	10 U	40 UJ	40 UJ	40 U	150 U	100 U	850 U
Gamma BHC	ug/kg	34 U	31 U	30 U	10 U	30 U	10 U	30 U	**6.2**	30 U	20 U	10 U	9.7 U	20 U	20 U	20 U	70 U	50 U	440 U
Gamma-chlordane	ug/kg	130 R	80 R	84 R	**140**	30 U	**40**	**260**	**60**	**200**	**70**	**10 NJ**	**60**	**200**	20 U	**330**	**140 NJ**	**80**	440 U
Heptachlor	ug/kg	34 U	31 U	30 U	10 U	30 U	10 U	30 U	5.4 U	30 U	**10 J**	10 U	**3.4 J**	20 U	20 U	20 U	70 U	50 U	440 U
Heptachlor epoxide	ug/kg	**49 NJ**	**45**	**31 J**	10 U	30 U	10 U	30 U	5.4 U	30 U	20 U	**20**	9.7 U	20 U	20 U	20 U	70 U	50 U	**120 J**
Methoxychlor	ug/kg	340 U	310 U	300 U	160 UJ	320 UJ	120 UJ	300 UJ	50 U	370 UJ	200 U	**210 NJ**	90 U	210 UJ	230 UJ	230 U	750 U	**1,700 J**	4,400 U
P,P'-DDD	ug/kg	**180**	**180**	**270**	**10 J**	**280 J**	20 UJ	**140 J**	10 UJ	**80 J**	30 UJ	20 U	**8.6 J**	**130 J**	**60 NJ**	**80 J**	150 UJ	100 UJ	850 U
P,P'-DDE	ug/kg	**160 NJ**	**97**	**120 NJ**	**10 J**	**130 NJ**	**9.8 J**	50 UJ	**8.4 J**	**90 J**	**10 J**	20 UJ	**10 J**	**70 NJ**	**60 NJ**	**50 NJ**	**240 J**	100 U	850 U
P,P'-DDT	ug/kg	66 U	60 U	58 U	**20 J**	**70 J**	20 UJ	**60 NJ**	**10 J**	70 UJ	30 UJ	**90 NJ**	10 UJ	**60 NJ**	**90 NJ**	**70 NJ**	**180 NJ**	100 UJ	850 U
Toxaphene	ug/kg	3,400 U	3,100 U	3,000 U	620 U	1,300 U	490 U	1,200 U	210 U	1,400 U	770 U	580 U	380 U	810 U	910 U	920 U	3,000 U	2,000 U	17,000 U
Total DDTs	ug/kg	**340**	**277**	**390**	**50**	**480**	**9.8**	**200**	**20**	**180**	**10**	**90**	**20**	**260**	**220**	**200**	**420**	ND	ND

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-101	GC-SED-102	GC-SED-102	GC-SED-103	GC-SED-103	GC-SED-105	GC-SED-11	GC-SED-11	GC-SED-12	GC-SED-12	GC-SED-13B	GC-SED-14	GC-SED-14	GC-SED-15	GC-SED-16	GC-SED-17	GC-SED-18	GC-SED-19C
Sample Number:		GC-SED-101(4-7)	GC-SED-102(2-4)	GC-SED-102(6.5-8.5)	GC-SED-103(1-2)	GC-SED-103(8.1-9.1)	GC-SED-105(2.5-4)	GC-SED-11(1-3)	GC-SED-11(11-13)	GC-SED-12(0-2)	GC-SED-12(13-14)	GC-SED-13B(0-2)	GC-SED-14(0-1.5)	GC-SED-14(5.5-6.5)	GC-SED-15(0-0.75)	GC-SED-16(0-2)	GC-SED-17(0-2)	GC-SED-18(0-1)	GC-SED-19C(1.5-2)
Sample Depth:		4-7	2-4	6.5-8.5	1-2	8.1-9.1	2.5-4	1-3	11-13	0-2	13-14	0-2	0-1.5	5.5-6.5	0-0.75	0-2	0-2	0-1	1.5-2
Sample Date:		1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/22/2006	1/5/2006	1/5/2006	12/21/2005	12/21/2005	1/7/2006	1/7/2006	1/7/2006	1/7/2006	1/8/2006	1/8/2006	1/7/2006	1/9/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	70 U	1,800 U	1,500 U	20 U	40 U	140 UJ	**50 J**	**60 NJ**	20 U	10 U	10 U	20 U	80 U	**20 J**	20 U	30 U	**7.8 J**	10 U
Alpha BHC	ug/kg	60 U	1,500 U	1,300 U	**10 J**	**140**	120 UJ	20 U	30 U	20 U	9.4 U	10 U	20 U	**120 J**	9.3 U	20 U	20 U	5.2 UJ	**3.5 J**
Alpha endosulfan	ug/kg	60 U	1,500 U	1,300 U	20 U	30 U	120 U	20 U	30 U	20 U	9.4 U	10 U	20 U	60 U	9.3 U	20 U	20 U	5.2 UJ	10 U
Alpha-chlordane	ug/kg	60 U	1,500 U	1,300 U	20 U	30 U	120 U	20 U	**70 NJ**	20 U	9.4 U	10 U	20 U	60 U	**20 NJ**	20 U	**6.6 J**	**10 J**	10 U
Beta BHC	ug/kg	**150**	1,500 U	1,300 U	20 U	**90 J**	120 UJ	20 U	30 U	20 U	9.4 U	10 U	20 U	60 U	9.3 U	20 U	20 U	5.2 UJ	10 U
Beta endosulfan	ug/kg	120 U	2,900 U	2,500 U	40 U	**130 J**	**320 J**	40 U	70 U	40 U	10 U	10 U	40 U	130 U	10 U	40 U	50 U	10 UJ	30 U
Delta BHC	ug/kg	60 UR	1,500 U	1,300 UJ	20 UR	30 UR	120 UJ	**30**	**40**	**40 J**	9.4 UR	**20 J**	**30 J**	**70 J**	**20 J**	**40 J**	**10 J**	**7.1 NJ**	**10 J**
Dieldrin	ug/kg	**520**	2,900 U	2,500 U	**50 NJ**	**190 J**	230 U	40 U	70 U	40 U	10 U	10 U	40 U	130 U	**10 J**	40 U	50 U	10 UJ	30 U
Endosulfan sulfate	ug/kg	**730 NJ**	2,900 U	2,500 U	40 U	**700 NJ**	**470 NJ**	40 U	70 U	40 UJ	10 U	10 U	40 U	130 U	10 U	40 U	50 U	10 UJ	30 U
Endrin	ug/kg	180 U	4,500 U	3,800 U	60 U	**340**	**150 J**	70 U	110 U	70 U	20 U	20 U	60 U	200 U	20 U	70 U	70 U	10 UJ	40 U
Endrin aldehyde	ug/kg	120 U	2,900 U	2,500 U	40 U	**210 NJ**	230 U	40 U	70 U	40 U	10 U	10 U	40 U	130 U	10 U	40 U	50 U	10 UJ	30 UJ
Endrin ketone	ug/kg	**260 NJ**	2,900 U	2,500 U	40 U	**190 NJ**	230 U	40 UJ	70 UJ	40 U	10 U	10 UJ	40 UJ	**990 J**	**30 J**	40 UJ	50 U	**6.3 J**	30 U
Gamma BHC	ug/kg	60 U	1,500 U	1,300 U	20 U	30 U	120 UJ	20 U	30 U	20 U	9.4 U	10 U	20 U	60 U	9.3 UJ	20 U	20 U	5.2 UJ	10 U
Gamma-chlordane	ug/kg	60 U	1,500 U	1,300 U	20 U	**640 NJ**	**570 J**	20 U	**60 NJ**	**30 NJ**	**10 NJ**	**10 NJ**	20 U	**110 NJ**	**20 J**	20 U	**80**	5.2 UJ	**110 J**
Heptachlor	ug/kg	60 UJ	1,500 U	1,300 U	20 U	30 U	120 UJ	20 UJ	30 UJ	20 U	9.4 U	10 U	20 U	60 UJ	9.3 UJ	20 UJ	20 U	5.2 UJ	10 U
Heptachlor epoxide	ug/kg	60 U	1,500 U	1,300 U	20 U	**80 NJ**	**90 J**	20 U	30 U	20 U	9.4 U	10 U	20 U	60 U	**10 NJ**	20 U	20 U	5.2 UJ	10 U
Methoxychlor	ug/kg	600 UJ	15,000 U	13,000 U	210 U	370 U	**650 J**	**620 NJ**	380 UJ	**360 NJ**	**820 J**	**190 NJ**	**250 NJ**	**8,600 J**	**100 NJ**	250 UJ	260 U	50 UJ	160 UJ
P,P'-DDD	ug/kg	**680**	2,900 U	2,500 U	**70 J**	**780 NJ**	**1,200 J**	**70 NJ**	**240 NJ**	**70 NJ**	**50 NJ**	**30 NJ**	**70 J**	**200 NJ**	**30 NJ**	40 UJ	**10 J**	**10 NJ**	**110 J**
P,P'-DDE	ug/kg	**700 J**	2,900 U	2,500 U	40 U	**560 J**	**390 NJ**	**60 NJ**	**180 NJ**	**110 NJ**	**120 NJ**	**50 NJ**	**50 J**	130 U	**40 J**	**70 NJ**	**10 J**	**10 NJ**	**30 NJ**
P,P'-DDT	ug/kg	**1,100 J**	**1,500 J**	**1,700 J**	**160 J**	**490 NJ**	**490 J**	40 UR	70 UR	40 UR	10 U	10 UR	**60 J**	130 UJ	10 UJ	40 UR	50 U	10 UR	**50 NJ**
Toxaphene	ug/kg	2,300 U	60,000 U	51,000 U	830 U	1,400 U	4,700 U	970 U	1,500 U	930 U	370 U	390 U	850 U	2,700 U	370 U	970 U	1,000 U	200 UJ	630 U
Total DDTs	ug/kg	**2,480**	**1,500**	**1,700**	**230**	**1,830**	**2,080**	**140**	**420**	**180**	**170**	**90**	**190**	**200**	**80**	**70**	**20**	**30**	**190**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-19C	GC-SED-20	GC-SED-20	GC-SED-21B	GC-SED-21B	GC-SED-22B	GC-SED-22B	GC-SED-23	GC-SED-24B	GC-SED-25B	GC-SED-26	GC-SED-27	GC-SED-27	GC-SED-28	GC-SED-28	GC-SED-29	GC-SED-30	GC-SED-31
Sample Number:		GC-SED-19C(5.8-6.8)	GC-SED-20(0-1.5)	GC-SED-20(4-5)	GC-SED-21B(1.5-3)	GC-SED-21B(7-8)	GC-SED-22B(0-1)	GC-SED-22B(7-8)	GC-SED-23(0-2)	GC-SED-24(3-4.5)	GC-SED-25(1-4)	GC-SED-26(1-2)	GC-SED-27(0.5-1)	GC-SED-27(4.9-5.4)	GC-SED-28(1.5-2.5)	GC-SED-28(4.9-5.8)	GC-SED-29(2.3-4.6)	GC-SED-30(3.5-5.5)	GC-SED-31(2.5-4.5)
Sample Depth:		5.8-6.8	0-1.5	4-5	1.5-3	7-8	0-1	7-8	0-2	3-5	1-4	1-2	0.5-1	4.9-5.4	1.5-2.5	4.9-5.8	2.3-4.6	3.5-5.5	2.5-4.5
Sample Date:		1/9/2006	1/10/2006	1/10/2006	1/9/2006	1/9/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/16/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	**10 J**	5.3 UR	50 UJ	20 U	**5.6 J**	**4.6 J**	50 U	20 UJ	**40 NJ**	80 U	190 U	240 U	380 U	210 U	100 U	250 U	150 U	70 UJ
Alpha BHC	ug/kg	10 U	4.5 UR	40 UJ	20 U	**50 J**	**4.2 J**	**10 J**	20 UJ	10 U	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 U
Alpha endosulfan	ug/kg	10 U	4.5 UR	40 UJ	20 U	10 U	10 U	40 U	20 UJ	10 U	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 U
Alpha-chlordane	ug/kg	**20**	4.5 UR	40 UJ	**40 J**	**10**	**8.5 J**	**30 J**	20 UJ	**10 NJ**	**20 J**	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 U
Beta BHC	ug/kg	10 U	4.5 UR	40 UJ	20 U	10 U	10 U	40 U	20 UJ	10 U	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 UJ
Beta endosulfan	ug/kg	20 U	8.8 UR	80 UJ	40 U	20 U	30 U	80 U	30 UJ	30 UJ	140 U	310 U	400 U	620 U	350 U	170 U	410 U	250 U	120 U
Delta BHC	ug/kg	**20**	4.5 UR	40 UR	**20**	**10 J**	10 U	**30 J**	20 UR	10 UR	70 UR	160 UR	210 UR	320 UR	180 UR	80 UR	210 UR	130 UR	60 UR
Dieldrin	ug/kg	**20 NJ**	8.8 UR	80 UJ	40 U	20 U	30 U	80 U	30 UJ	30 U	140 U	310 U	400 U	620 U	350 U	170 U	410 U	250 U	**200**
Endosulfan sulfate	ug/kg	**6.8 J**	8.8 UR	**90 NJ**	**9.8 J**	20 U	**2.3 J**	80 U	30 U	30 U	140 U	310 U	400 U	620 U	350 U	170 U	410 U	250 U	120 UJ
Endrin	ug/kg	40 U	10 UR	130 UJ	60 U	30 U	50 U	130 U	50 U	50 U	210 U	470 U	610 U	950 U	530 U	260 U	630 U	380 U	180 UJ
Endrin aldehyde	ug/kg	20 UJ	8.8 UR	80 UJ	40 UJ	20 UJ	30 UJ	80 UJ	30 UJ	30 U	140 U	310 U	400 U	620 U	350 U	170 U	410 U	250 U	**160 NJ**
Endrin ketone	ug/kg	20 U	8.8 UR	80 UJ	40 U	20 U	30 U	80 U	30 U	30 UJ	140 U	310 U	400 U	620 U	350 U	170 U	410 U	250 U	120 UJ
Gamma BHC	ug/kg	10 U	4.5 UR	40 UJ	20 U	10 U	10 U	40 U	20 UJ	10 U	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 UJ
Gamma-chlordane	ug/kg	**20 NJ**	**5.1 J**	**60 NJ**	**120 J**	10 U	**120**	**130 J**	**10 J**	**40 NJ**	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	**90 NJ**
Heptachlor	ug/kg	10 U	4.5 UR	40 UJ	20 U	10 U	**3.6 J**	40 U	20 UJ	10 UJ	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 UJ
Heptachlor epoxide	ug/kg	10 U	4.5 UJ	40 UJ	20 U	10 U	10 U	40 U	20 UJ	10 U	70 U	160 U	210 U	320 U	180 U	80 U	210 U	130 U	60 UJ
Methoxychlor	ug/kg	140 UJ	40 UJ	460 UJ	230 UJ	120 U	180 U	430 UJ	200 UJ	**220 NJ**	730 UJ	1,600 U	2,100 U	3,200 U	1,800 U	890 U	2,100 U	1,300 U	600 UJ
P,P'-DDD	ug/kg	**190 J**	**20 NJ**	**330 NJ**	**190 J**	**120 J**	**20 J**	**160 J**	**20 NJ**	**180 NJ**	140 UJ	310 U	400 U	620 U	350 U	**40 J**	410 U	250 U	**280 J**
P,P'-DDE	ug/kg	**60 NJ**	**10 NJ**	**150 NJ**	**60 NJ**	**20 NJ**	30 UJ	80 UJ	30 UJ	**220 NJ**	140 UJ	310 U	400 U	620 U	350 U	170 U	410 U	250 U	**180**
P,P'-DDT	ug/kg	**70 NJ**	8.8 UR	80 UR	**110 NJ**	20 UJ	30 UJ	**130 NJ**	30 UR	30 UR	140 UR	310 U	400 U	620 U	350 U	**30 J**	410 U	250 U	120 U
Toxaphene	ug/kg	560 U	180 UR	1,800 UJ	900 U	460 U	710 U	1,700 U	790 U	760 U	2,900 U	6,300 U	8,100 U	13,000 U	7,200 U	3,500 U	8,400 U	5,100 U	2,400 U
Total DDTs	ug/kg	**320**	**30**	**480**	**360**	**140**	**20**	**290**	**20**	**400**	ND	ND	ND	ND	ND	**70**	ND	ND	**460**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-31	GC-SED-32	GC-SED-32	GC-SED-33	GC-SED-34B	GC-SED-34B	GC-SED-35	GC-SED-35	GC-SED-36	GC-SED-36	GC-SED-37B	GC-SED-38	GC-SED-39	GC-SED-39	GC-SED-40	GC-SED-41	GC-SED-43	GC-SED-43
Sample Number:		GC-SED-31(11.5-12.5)	GC-SED-32(0.5-1.5)	GC-SED-32(5.9-6.9)	GC-SED-33(1.5-3)	GC-SED-34B(2-3)	GC-SED-34B(5.8-6.8)	GC-SED-35(0-4.5)	GC-SED-35(8.8-10.8)	GC-SED-36(2.5-4.5)	GC-SED-36(8-9)	GC-SED-37B(7-8)	GC-SED-38(5.1-6.1)	GC-SED-39(1-2)	GC-SED-39(4.5-5.5)	GC-SED-40(2.5-3.5)	GC-SED-41(0-4.5)	GC-SED-43(2-3)	GC-SED-43(7.3-8.3)
Sample Depth:		11.5-12.5	0.5-1.5	5.9-6.9	1.5-3	2-3	5.8-6.8	0-4.5	8.8-10.8	2.5-4.5	8-9	7-8	5.1-6.1	1-2	4.5-5.5	2.5-3.5	0-4.5	2-3	7.3-8.3
Sample Date:		1/16/2006	1/16/2006	1/16/2006	1/17/2006	1/13/2006	1/13/2006	1/13/2006	1/13/2006	1/16/2006	1/16/2006	12/22/2005	12/22/2005	1/8/2006	1/8/2006	1/17/2006	1/17/2006	1/23/2006	1/23/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	210 UJ	20 UJ	90 UJ	40 UJ	210 U	240 U	50 U	150 U	50 UJ	180 UJ	170 U	**80 J**	50 U	**250**	10 UJ	2 U	120 U	**60 J**
Alpha BHC	ug/kg	**350**	**10 J**	**100**	**120 J**	180 U	200 U	50 U	120 U	40 U	**320**	140 U	250 U	40 U	40 U	**7.1 J**	**1.4 J**	90 U	**30 J**
Alpha endosulfan	ug/kg	180 U	20 U	70 U	30 U	180 U	200 U	50 U	120 U	40 U	150 U	140 U	250 U	40 U	40 U	8.8 U	1.7 UJ	90 U	40 U
Alpha-chlordane	ug/kg	180 U	20 U	**290**	30 U	180 U	200 U	50 U	**40 J**	**40 J**	150 U	140 U	**240 J**	40 U	40 U	8.8 U	1.7 U	**200**	**90 J**
Beta BHC	ug/kg	180 UJ	20 UJ	**100 J**	**40 NJ**	180 U	200 U	50 U	120 U	**20 J**	150 UJ	**110 J**	250 U	40 U	**100 J**	8.8 UJ	1.7 U	**90 J**	40 U
Beta endosulfan	ug/kg	**380 NJ**	40 U	**40 J**	**170 NJ**	340 U	390 U	90 U	**160 J**	80 U	**390 NJ**	280 U	480 U	90 U	90 U	10 U	3.3 U	190 U	80 U
Delta BHC	ug/kg	180 UR	20 UR	70 UJ	30 UJ	**180 J**	200 UJ	50 UR	**20 J**	40 UJ	150 UR	140 UJ	250 UR	**270 J**	**630 J**	8.8 UR	1.7 UR	90 U	40 U
Dieldrin	ug/kg	350 U	40 U	**830**	70 U	**480 NJ**	390 U	90 U	240 U	**130**	290 U	**60 J**	**790**	**90 J**	**60 J**	10 U	3.3 UJ	190 U	80 U
Endosulfan sulfate	ug/kg	350 UJ	40 UJ	**180 NJ**	**190 NJ**	340 U	390 U	90 U	240 U	80 UJ	**370 NJ**	**300 NJ**	480 UJ	90 U	**150 NJ**	10 UJ	3.3 UJ	**490**	**100 NJ**
Endrin	ug/kg	530 UJ	60 UJ	230 UJ	110 UJ	520 U	590 U	150 U	370 U	130 UJ	450 UJ	420 U	730 U	140 U	140 U	20 UJ	5 UJ	290 U	140 U
Endrin aldehyde	ug/kg	350 U	40 U	**240 NJ**	70 U	**540 J**	**350 J**	90 U	240 U	**140**	290 U	280 UJ	**710 J**	90 U	90 U	10 U	**6.5**	190 U	**100 NJ**
Endrin ketone	ug/kg	**390 J**	40 UJ	**160 NJ**	**360 J**	340 U	390 U	**7.6 J**	240 U	80 UJ	**570 J**	280 U	480 U	90 U	90 U	10 UJ	3.3 U	190 U	80 U
Gamma BHC	ug/kg	180 UJ	20 UJ	70 UJ	30 UJ	180 U	200 U	50 U	120 U	40 UJ	150 UJ	140 U	250 U	40 U	40 U	8.8 UJ	1.7 UJ	90 U	40 U
Gamma-chlordane	ug/kg	180 U	20 U	**750 J**	**320**	180 U	200 U	50 U	120 U	**110 J**	150 U	140 U	250 U	40 U	**80 NJ**	8.8 U	1.7 U	**160 NJ**	**80**
Heptachlor	ug/kg	180 UJ	20 UJ	70 UJ	30 UJ	180 U	200 U	50 U	120 U	40 UJ	150 UJ	140 U	250 U	40 U	**90 NJ**	8.8 UJ	1.7 UJ	90 U	**40**
Heptachlor epoxide	ug/kg	180 UJ	20 UJ	70 UJ	**50 J**	180 U	200 U	50 U	120 U	40 UJ	150 UJ	**90 J**	250 U	40 U	**60 NJ**	8.8 UJ	1.7 U	90 U	40 U
Methoxychlor	ug/kg	1,800 UJ	230 UJ	790 UJ	360 UJ	1,800 U	2,000 U	500 U	1,200 U	430 UJ	**1,400 J**	1,400 U	2,500 U	480 U	490 U	80 UJ	10 UJ	980 U	460 U
P,P'-DDD	ug/kg	350 UJ	**8.2 J**	**1,900 J**	70 UJ	340 U	390 U	90 U	240 U	80 UJ	290 UJ	**140 J**	**1,100 J**	90 U	90 U	**5.6 J**	**1.8 NJ**	**1,100**	**230 J**
P,P'-DDE	ug/kg	**380 J**	40 U	**610 NJ**	**110 J**	340 UJ	390 UJ	90 U	240 U	**90**	**380 J**	280 U	480 UJ	**30 J**	**110 J**	10 U	**1.1 NJ**	**570 J**	**260**
P,P'-DDT	ug/kg	350 U	40 U	150 U	**200 NJ**	**2,400 J**	**1,600 J**	90 UJ	**400 NJ**	80 U	**690 J**	**420 NJ**	**1,800 NJ**	**200 NJ**	**240 NJ**	10 U	3.3 UR	**660 J**	**160 NJ**
Toxaphene	ug/kg	7,100 U	890 U	3,100 U	1,400 U	7,000 U	7,900 U	2,000 U	4,900 U	1,700 U	6,000 U	5,700 U	9,800 U	1,900 U	1,900 U	350 U	60 U	3,900 U	1,800 U
Total DDTs	ug/kg	**380**	**8.2**	**2,510**	**310**	**2,400**	**1,600**	ND	**400**	**90**	**1,070**	**560**	**2,900**	**230**	**350**	**5.6**	**2.9**	**2,330**	**650**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

	Station Location:	GC-SED-44	GC-SED-44	GC-SED-45C	GC-SED-46C	GC-SED-46C	GC-SED-47	GC-SED-48	GC-SED-48	GC-SED-49	GC-SED-49	GC-SED-50B	GC-SED-51	GC-SED-51	GC-SED-52	GC-SED-53	GC-SED-54B	GC-SED-54B	GC-SED-55
	Sample Number:	GC-SED-44(0.5-2.5)	GC-SED-44(5.6-6.1)	GC-SED-45C(1-1.5)	GC-SED-46C(1.5-2.5)	GC-SED-46C(5-5.5)	GC-SED-47(1.5-2.5)	GC-SED-48(0.5-1.5)	GC-SED-48(5-5.8)	GC-SED-49(2.5-3.5)	GC-SED-49(5.4-5.9)	GC-SED-50(2-5)	GC-SED-51(0-1.5)	GC-SED-51(6.7-7.2)	GC-SED-52(3-6)	GC-SED-53(0.5-1.5)	GC-SED-54B(0-2)	GC-SED-54B(4.5-5.7)	GC-SED-55(1.5-2.5)
	Sample Depth:	0.5-2.5	5.6-6.1	1-1.5	1.5-2.5	5-5.5	1.5-2.5	0.5-1.5	5-5.8	2.5-3.5	5.4-5.9	2-5	0-1.5	6.7-7.2	3-6	0.5-1.5	0-2	4.5-5.7	1.5-2.5
	Sample Date:	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/26/2006	1/26/2006	1/26/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006	1/24/2006
	Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	**140**	30 U	1,500 U	**200**	170 U	**110 NJ**	290 U	740 U	1,700 U	1,700 U	30 U	80 U	140 U	140 U	70 U	20 U	140 U	890 U
Alpha BHC	ug/kg	**30 J**	**20 J**	1,300 U	**20 J**	**60 J**	50 U	250 U	630 U	1,400 U	1,400 U	**70**	70 U	**360 J**	**1,800 NJ**	**90**	20 U	**270 J**	760 U
Alpha endosulfan	ug/kg	100 U	30 U	1,300 U	150 U	150 U	50 U	250 U	630 U	1,400 U	1,400 U	30 U	70 U	120 U	**230**	60 U	20 U	110 U	760 U
Alpha-chlordane	ug/kg	100 U	**50 J**	1,300 U	**160 J**	**110 J**	**160 J**	**110 J**	6,300 U	1,400 U	1,400 U	30 U	70 U	120 U	**150 NJ**	60 U	**60 NJ**	110 U	760 U
Beta BHC	ug/kg	**60 J**	30 U	1,300 U	150 U	**90 J**	50 U	**70 J**	630 U	1,400 U	1,400 U	30 UJ	**50 J**	120 U	120 U	60 UJ	**30 J**	110 UJ	760 U
Beta endosulfan	ug/kg	200 U	60 U	**190 J**	290 U	290 U	110 U	480 U	**180 J**	2,800 U	2,800 U	**90 NJ**	140 U	230 UJ	**950**	**230 J**	**40 J**	**430 NJ**	1,500 U
Delta BHC	ug/kg	**120 J**	30 U	1,300 U	**280**	150 U	50 U	250 U	630 U	1,400 U	1,400 U	30 UJ	70 UJ	120 UJ	120 UR	60 UR	20 UR	110 UJ	760 U
Dieldrin	ug/kg	**160 J**	60 U	2,500 U	**450**	290 U	**290**	**260 J**	1,200 U	2,800 U	2,800 U	60 U	**270 J**	230 UJ	240 U	120 U	**160**	220 UJ	1,500 U
Endosulfan sulfate	ug/kg	**350 J**	**120 NJ**	2,500 U	290 U	290 U	**420 J**	480 U	**430 J**	2,800 U	**260 J**	**210 NJ**	**530 NJ**	**350 NJ**	240 U	120 U	**390**	**660 NJ**	1,500 U
Endrin	ug/kg	300 U	90 U	3,700 U	440 U	440 U	160 U	720 U	1,900 U	4,200 U	4,200 U	**260 J**	210 UJ	**570 J**	360 U	**130 J**	**90 J**	**320 J**	2,200 U
Endrin aldehyde	ug/kg	200 U	60 U	2,500 U	**360 NJ**	290 U	**370 NJ**	480 U	1,200 U	2,800 U	2,800 U	60 U	140 U	230 UJ	240 U	120 U	**190**	220 UJ	1,500 U
Endrin ketone	ug/kg	200 U	**80 NJ**	2,500 U	**210 J**	290 U	**130 J**	**130 J**	**200 J**	**210 J**	2,800 U	**200 NJ**	140 U	**290 NJ**	**440 NJ**	120 U	**40 NJ**	220 UJ	1,500 U
Gamma BHC	ug/kg	100 U	30 U	1,300 U	150 U	150 U	50 U	250 U	630 U	1,400 U	1,400 U	30 UJ	70 UJ	120 U	**190 J**	60 UJ	20 U	110 UJ	760 U
Gamma-chlordane	ug/kg	100 U	**60 J**	1,300 U	**220 NJ**	150 U	**80 NJ**	250 U	6,300 U	**80 J**	1,400 U	30 U	70 U	120 U	**650 NJ**	60 U	**70 NJ**	110 U	760 U
Heptachlor	ug/kg	100 U	**40**	1,300 UR	150 U	150 U	**160 J**	250 UR	630 UR	1,400 UR	1,400 UR	30 UJ	70 UJ	120 UJ	**260 NJ**	60 UJ	20 U	110 UJ	760 UR
Heptachlor epoxide	ug/kg	100 U	**40 J**	**150 J**	150 U	150 U	50 U	250 U	**80 J**	1,400 U	1,400 U	**30 J**	70 U	**230 J**	**420 NJ**	60 U	20 U	110 U	**60 J**
Methoxychlor	ug/kg	1,000 U	320 U	13,000 U	220 U	1,500 U	550 U	2,500 U	6,300 U	14,000 U	14,000 U	**570 J**	700 UJ	1,200 UJ	**3,000 NJ**	600 UJ	200 U	1,100 UJ	7,600 U
P,P'-DDD	ug/kg	**170 J**	**120 NJ**	2,500 UJ	**860 J**	290 U	**360 J**	**490 J**	1,200 UJ	**530 J**	2,800 U	**420 J**	**480 NJ**	**600 NJ**	240 U	**710 J**	**200**	**410 NJ**	1,500 U
P,P'-DDE	ug/kg	200 U	**140**	2,500 U	**330 NJ**	**190 J**	**220**	**320 J**	1,200 U	2,800 U	2,800 U	60 U	**230 NJ**	230 UJ	**960 J**	**180 J**	**150**	**230 J**	1,500 U
P,P'-DDT	ug/kg	**560 NJ**	**180 NJ**	2,500 UJ	**950 NJ**	**310 NJ**	**650 NJ**	**740 J**	1,200 UJ	2,800 UJ	2,800 U	**390 NJ**	140 UR	**380 NJ**	**1,700**	**320 J**	30 U	**1,100 J**	1,500 U
Toxaphene	ug/kg	4,000 U	1,200 U	50,000 U	5,900 U	5,800 U	2,200 U	9,700 U	25,000 U	56,000 U	57,000 U	1,300 U	2,800 U	4,800 U	4,800 U	2,400 U	790 U	4,500 U	30,000 U
Total DDTs	ug/kg	**730**	**440**	ND	**2,140**	**500**	**1,230**	**1,550**	ND	**530**	ND	**810**	**710**	**980**	**2,660**	**1,210**	**350**	**1,740**	ND

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-55	GC-SED-57	GC-SED-58C	GC-SED-59	GC-SED-60B	GC-SED-62C	GC-SED-62C	GC-SED-63	GC-SED-64D	GC-SED-65	GC-SED-67B	GC-SED-67B	GC-SED-68	GC-SED-68	GC-SED-69C	GC-SED-69C	GC-SED-71C	GC-SED-71C
Sample Number:		GC-SED-55(10-11)	GC-SED-57(7-9)	GC-SED-58C(0-5)	GC-SED-59(0.5-1)	GC-SED-60B(0-2.5)	GC-SED-62C(0-2)	GC-SED-62C(3-4)	GC-SED-63(3-3.5)	GC-SED-64D(2-4)	GC-SED-65(0.5-1.25)	GC-SED-67(0-1)	GC-SED-67(7-8)	GC-SED-68(0-1)	GC-SED-68(2.2-3.1)	GC-SED-69(0-1)	GC-SED-69(6-7)	GC-SED-71C(1.5-2.5)	GC-SED-71C(2.5-4.0)
Sample Depth:		10-11	7-9	0-5	0.5-1	0-2.5	0-2	3-4	3-3.5	2-4	0.5-1.25	0-1	7-8	0-1	2.2-3.1	0-1	6-7	1.5-2.5	2.5-4
Sample Date:		1/24/2006	1/26/2006	1/27/2006	1/22/2006	1/21/2006	1/21/2006	1/21/2006	12/20/2005	1/11/2006	1/22/2006	12/17/2005	12/17/2005	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/29/2006	1/29/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	1,500 U	40 U	520 U	20 U	60 UJ	20 UJ	70 UJ	140 U	90 U	110 U	**20 NJ**	320 U	**110 J**	150 U	**110 J**	10 U	130 U	10 U
Alpha BHC	ug/kg	1,300 U	30 U	440 U	20 U	50 UJ	20 UJ	60 UJ	120 U	**70 J**	90 U	10 U	**140 J**	20 U	130 UJ	40 U	10 U	110 U	**5 J**
Alpha endosulfan	ug/kg	1,300 U	30 U	440 U	20 U	50 U	20 U	60 U	120 U	80 U	90 U	10 U	270 U	20 U	130 U	40 U	10 U	110 U	10 U
Alpha-chlordane	ug/kg	1,300 U	30 U	440 U	**10 J**	50 U	20 U	60 U	120 U	80 U	90 U	10 U	270 U	**40 NJ**	**30 J**	**40 NJ**	10 U	110 U	**6.3 J**
Beta BHC	ug/kg	1,300 U	30 UJ	440 U	20 U	**60 NJ**	20 UJ	60 UJ	120 UJ	80 U	**20 J**	10 U	270 U	20 U	130 U	40 U	10 U	110 U	10 U
Beta endosulfan	ug/kg	2,400 U	70 U	850 U	40 U	110 UJ	40 UJ	**250 J**	230 U	160 U	190 U	20 U	530 U	40 U	250 U	80 U	10 U	210 U	20 U
Delta BHC	ug/kg	**240 J**	30 UJ	440 UR	20 U	50 UR	20 UR	60 UR	**130 J**	80 UJ	90 U	10 UR	270 UJ	20 UR	130 UJ	40 UJ	**10 J**	110 UJ	10 UJ
Dieldrin	ug/kg	2,400 U	**80**	850 U	**9.9 J**	**380 J**	40 U	120 U	**90 J**	160 U	190 U	20 U	530 U	40 U	250 U	80 U	10 U	210 U	20 U
Endosulfan sulfate	ug/kg	2,400 U	70 U	850 U	40 U	**170 NJ**	40 U	**270 NJ**	230 U	160 U	190 U	20 UJ	530 U	40 U	250 U	80 U	10 U	210 U	20 U
Endrin	ug/kg	3,700 U	**40 J**	1,300 U	60 U	160 U	60 U	180 U	340 UJ	240 U	290 U	30 U	810 U	70 U	**140 J**	**60 J**	20 U	320 U	30 U
Endrin aldehyde	ug/kg	2,400 U	70 U	850 U	40 U	110 U	40 U	120 U	230 U	160 U	190 U	20 U	530 U	40 U	250 U	80 U	10 U	210 U	20 U
Endrin ketone	ug/kg	2,400 U	70 U	**680 J**	**10 J**	110 U	40 U	120 U	230 U	**340**	**20 J**	20 U	530 U	40 U	250 U	80 U	10 U	210 U	20 U
Gamma BHC	ug/kg	1,300 U	30 UJ	440 U	20 U	50 UJ	20 UJ	60 UJ	120 U	80 U	90 U	10 U	270 U	20 U	130 U	40 U	10 U	110 U	10 U
Gamma-chlordane	ug/kg	1,300 U	30 U	440 U	**10 J**	50 U	20 U	**230**	120 U	80 U	90 U	10 U	270 U	**30**	130 U	40 U	10 U	110 U	10 U
Heptachlor	ug/kg	1,300 UR	30 UJ	440 U	20 U	50 UJ	20 UJ	60 UJ	120 U	80 U	90 U	10 U	270 U	20 U	130 U	40 U	10 U	110 U	10 U
Heptachlor epoxide	ug/kg	1,300 U	30 U	440 U	**10 J**	50 U	20 U	60 U	120 U	80 U	90 U	10 U	270 U	20 U	130 U	40 U	10 U	**70 J**	10 U
Methoxychlor	ug/kg	13,000 U	390 UJ	**1,500 J**	**30 J**	560 U	220 U	600 U	1,200 UJ	**3,100 J**	970 U	120 UJ	**6,800 NJ**	240 UJ	**4,300**	**500 NJ**	**250 NJ**	1,100 U	100 U
P,P'-DDD	ug/kg	**430 J**	**160 NJ**	850 U	40 U	**1,000 NJ**	**160 J**	**360 J**	**240 J**	160 UJ	190 U	**30 NJ**	530 U	**80 NJ**	250 U	80 UJ	**110 J**	**130 J**	**30 J**
P,P'-DDE	ug/kg	2,400 U	**120 NJ**	850 U	**20 J**	**530 J**	**40 NJ**	120 UJ	**70 J**	160 UJ	190 U	**30 NJ**	**560 NJ**	**90 NJ**	**360 J**	**240 NJ**	**50 J**	210 UJ	20 UJ
P,P'-DDT	ug/kg	2,400 UJ	70 UR	**1,100 J**	40 U	**430 J**	**110 NJ**	**280 NJ**	**240 NJ**	160 UR	190 U	20 UR	530 U	40 UR	250 U	80 UR	10 UJ	210 UJ	20 UJ
Toxaphene	ug/kg	49,000 U	1,600 U	17,000 U	820 U	2,200 U	870 U	2,300 U	4,600 U	3,200 U	3,800 U	480 U	11,000 U	960 U	5,000 U	1,800 U	400 U	4,300 U	400 U
Total DDTs	ug/kg	**430**	**280**	**1,100**	**20**	**1,960**	**310**	**640**	**550**	ND	ND	**60**	**560**	**170**	**360**	**240**	**160**	**130**	**30**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

	Station Location:	GC-SED-72B	GC-SED-72B	GC-SED-73E	GC-SED-74	GC-SED-75C	GC-SED-75C	GC-SED-76C	GC-SED-77	GC-SED-77	GC-SED-78B	GC-SED-78B	GC-SED-79	GC-SED-80	GC-SED-81	GC-SED-81	GC-SED-82	GC-SED-82	GC-SED-83
	Sample Number:	GC-SED-72(0-2)	GC-SED-72(5.5-7)	GC-SED-73E(1.0-2.5)	GC-SED-74(5.3-6.3)	GC-SED-75C(0-0.7)	GC-SED-75C(0.7-1.5)	GC-SED-76C(2.5-3.4)	GC-SED-77(0-3)	GC-SED-77(14.5-15.4)	GC-SED-78B(0-1)	GC-SED-78B(2.5-5)	GC-SED-79(2.5-3.5)	GC-SED-80(0-2)	GC-SED-81(8-11)	GC-SED-81(13-13.5)	GC-SED-82(0-2)	GC-SED-82(12-12.8)	GC-SED-83(0-2)
	Sample Depth:	0-2	5.5-7	1-2.5	5.3-6.3	0-0.7	0.7-1.5	2.5-3.4	0-3	14.5-15.4	0-1	2.5-5	2.5-3.5	0-2	8-11	13-13.5	0-2	12-12.8	0-2
	Sample Date:	12/18/2005	12/18/2005	1/29/2006	1/29/2006	1/25/2006	1/25/2006	1/25/2006	1/30/2006	1/30/2006	1/25/2006	1/25/2006	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/30/2006	1/30/2006	1/30/2006
	Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	**1.3 J**	**610**	20 U	**640 NJ**	290 U	110 U	40 U	10 U	10 U	20 U	40 U	50 U	**330 J**	30 U	4.6 U	10 U	10 U	20 U
Alpha BHC	ug/kg	1.8 UJ	70 U	20 U	210 U	250 U	90 U	30 U	9.1 U	10 U	20 U	30 U	40 U	40 U	20 U	3.9 UJ	10 U	10 U	10 U
Alpha endosulfan	ug/kg	1.8 U	70 U	20 U	210 U	250 U	90 U	30 U	9.1 U	10 U	20 U	30 U	40 U	40 U	20 U	3.9 U	10 U	10 U	10 U
Alpha-chlordane	ug/kg	1.8 U	**300 NJ**	20 U	210 U	250 U	90 U	**20 J**	9.1 U	**4.4 J**	20 U	30 U	**50 NJ**	**90 NJ**	20 U	3.9 U	**5.6 J**	**6.3 J**	10 U
Beta BHC	ug/kg	1.8 U	70 U	20 U	**650 NJ**	250 U	90 U	**20 J**	**9.4 J**	**6.6 J**	20 UJ	30 UJ	40 U	40 U	20 U	3.9 U	10 U	10 U	10 U
Beta endosulfan	ug/kg	3.5 U	150 U	40 U	410 U	480 U	180 U	70 U	10 U	20 U	40 U	70 U	90 U	90 U	40 U	7.6 U	20 U	20 U	30 U
Delta BHC	ug/kg	1.8 UJ	70 UJ	20 UJ	**2,900 NJ**	250 U	90 U	30 UJ	**20 J**	10 U	20 UJ	30 UJ	40 UR	40 UR	20 UJ	3.9 UR	10 U	10 U	**10 J**
Dieldrin	ug/kg	3.5 U	150 U	**10 J**	**280 J**	480 U	180 U	70 U	**10 J**	20 U	40 U	70 U	90 U	90 U	40 U	7.6 U	20 U	20 U	**10 J**
Endosulfan sulfate	ug/kg	3.5 U	150 U	40 U	410 U	480 U	180 U	70 U	10 U	20 U	**20 J**	**30 J**	90 U	90 U	40 U	7.6 U	20 U	20 U	30 U
Endrin	ug/kg	5.3 U	220 U	70 U	620 U	720 U	270 U	110 UJ	20 U	30 U	60 UJ	110 UJ	140 U	140 U	70 U	10 U	40 U	30 U	50 U
Endrin aldehyde	ug/kg	3.5 U	150 U	**10 J**	**140 J**	480 U	180 U	70 U	10 UJ	20 UJ	40 U	70 U	90 U	90 U	40 U	7.6 U	20 UJ	20 U	30 UJ
Endrin ketone	ug/kg	3.5 U	150 U	**4.9 J**	410 U	480 U	180 U	70 U	**9.4 J**	20 U	40 U	70 U	90 U	90 U	40 U	7.6 U	20 U	20 U	30 U
Gamma BHC	ug/kg	1.8 U	70 U	20 U	210 U	250 U	90 U	30 UJ	9.1 U	10 U	20 UJ	30 UJ	40 U	40 U	20 U	3.9 U	10 U	10 U	10 U
Gamma-chlordane	ug/kg	1.8 U	**240**	20 U	210 U	250 U	90 U	**50 NJ**	**40 NJ**	10 U	20 U	30 U	**60 NJ**	**60**	**30 NJ**	3.9 U	10 U	10 U	10 U
Heptachlor	ug/kg	1.8 U	70 U	20 U	**980 NJ**	250 UR	90 UR	30 UJ	9.1 U	10 U	20 UJ	30 UJ	40 U	40 U	20 U	3.9 U	10 U	10 U	10 U
Heptachlor epoxide	ug/kg	1.8 U	70 U	20 U	210 U	250 U	90 U	30 U	**10**	**3.6 J**	20 U	30 U	40 U	40 U	20 U	3.9 U	10 U	10 U	10 U
Methoxychlor	ug/kg	10 U	750 UJ	240 U	**350 J**	2,500 U	930 U	380 UJ	90 U	110 U	230 UJ	370 UJ	**700 NJ**	480 UJ	**1,100 J**	30 U	150 U	110 U	180 U
P,P'-DDD	ug/kg	3.5 U	**590 NJ**	40 UJ	**420 J**	480 U	180 U	**90 NJ**	**10 J**	20 UJ	40 UJ	**30 NJ**	**170 J**	90 UJ	**160 J**	7.6 U	**20 J**	20 UJ	**10 J**
P,P'-DDE	ug/kg	3.5 U	**650 NJ**	40 U	410 UJ	480 U	180 U	**110 NJ**	**20**	**10 J**	**40 NJ**	**50 NJ**	**250 J**	**230 J**	**120 J**	7.6 U	20 UJ	**8.2 J**	30 UJ
P,P'-DDT	ug/kg	3.5 U	150 UR	**10 J**	**600 J**	480 U	180 U	70 UR	10 U	**10 J**	40 UR	70 UR	**40 J**	90 UJ	40 UJ	7.6 U	**10 J**	**20 J**	30 UJ
Toxaphene	ug/kg	70 U	3,000 U	950 U	8,300 U	9,700 U	3,700 U	1,500 U	360 U	450 U	910 U	1,500 U	1,900 U	1,900 U	990 U	150 U	590 U	420 U	690 U
Total DDTs	ug/kg	ND	**1,240**	**10**	**1,020**	ND	ND	**200**	**30**	**20**	**40**	**80**	**460**	**230**	**280**	ND	**40**	**20**	**10**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-83	GC-SED-84	GC-SED-85B	GC-SED-85B	GC-SED-86	GC-SED-87	GC-SED-88	GC-SED-89B	GC-SED-90B	GC-SED-91	GC-SED-92	GC-SED-93	GC-SED-94	GC-SED-95	GC-SED-96	GC-SED-97	GC-SED-97	GC-SED-98
Sample Number:		GC-SED-83(11-11.9)	GC-SED-84(1-2)	GC-SED-85B(0-1)	GC-SED-85B(8.5-9.3)	GC-SED-86(0-1)	GC-SED-87(4.4-6.2)	GC-SED-88(0.5-1)	GC-SED-89(1.8-2.3)	GC-SED-90B(0-1)	GC-SED-91(4.7-6.2)	GC-SED-92(0-2)	GC-SED-93(0-1)	GC-SED-94(0.5-1.25)	GC-SED-95(3.5-4.5)	GC-SED-96(0-1)	GC-SED-97(0.5-2.0)	GC-SED-97(8.5-9.0)	GC-SED-98(1-2)
Sample Depth:		11-11.9	1-2	0-1	8.5-9.3	0-1	4.4-6.2	0.5-1	1.8-2.3	0-1	4.7-6.2	0-2	0-1	0.5-1.25	3.5-4.5	0-1	0.5-2	8.5-9	1-2
Sample Date:		1/30/2006	12/15/2005	12/16/2005	12/16/2005	12/15/2005	12/15/2005	12/14/2005	12/14/2005	12/14/2005	1/22/2006	12/16/2005	12/16/2005	12/20/2005	12/15/2005	12/15/2005	1/28/2006	1/28/2006	1/27/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Pesticides**																	
Aldrin	ug/kg	40 U	**70**	**80**	390 U	**400 J**	600 U	310 UJ	**230 J**	1,000 UJ	**60 J**	**160 J**	**300 J**	**480 NJ**	**210 J**	**30 J**	40 U	780 U	20 U
Alpha BHC	ug/kg	30 U	30 U	50 U	330 U	700 U	510 UJ	260 U	450 U	860 U	**10 J**	60 UJ	50 UJ	50 U	530 U	30 U	30 U	670 U	**20 J**
Alpha endosulfan	ug/kg	30 U	30 U	50 U	330 U	700 U	**440 J**	260 U	450 U	860 U	40 U	60 UJ	50 UJ	50 U	530 U	30 U	30 U	670 U	10 UJ
Alpha-chlordane	ug/kg	30 U	**110**	**80**	**450 NJ**	700 U	**380 J**	260 U	**370 J**	860 U	40 U	**130 J**	**120 NJ**	**210 NJ**	**120 J**	**50**	**130 J**	670 U	10 U
Beta BHC	ug/kg	30 U	30 U	50 U	330 U	700 U	510 U	260 U	450 U	860 U	40 U	60 UJ	50 UJ	50 U	530 U	30 U	**40 NJ**	**230 J**	10 U
Beta endosulfan	ug/kg	60 U	60 U	90 U	640 U	1,400 U	990 U	510 U	870 U	1,700 U	90 U	120 UJ	120 UJ	110 U	1,000 U	60 U	60 U	1,300 U	30 UJ
Delta BHC	ug/kg	**80 J**	30 UR	50 UR	330 UR	700 UJ	510 UJ	260 UR	450 UR	860 UJ	**40 NJ**	60 UR	50 UR	**70 NJ**	530 UJ	30 UR	30 UR	670 UR	10 UR
Dieldrin	ug/kg	**20 J**	60 U	90 U	**400 J**	1,400 U	990 U	510 U	870 U	1,700 U	**70 J**	120 UJ	120 UJ	**140 J**	1,000 U	60 U	**400 J**	1,300 U	**60 NJ**
Endosulfan sulfate	ug/kg	60 U	60 UJ	90 UJ	640 U	1,400 UJ	990 UJ	510 UJ	870 UJ	1,700 UJ	90 U	120 UJ	120 UJ	110 UJ	1,000 UJ	60 UJ	**160 NJ**	1,300 U	**50 J**
Endrin	ug/kg	90 U	100 U	150 U	980 U	2,100 U	1,500 U	770 U	1,300 U	2,500 U	140 U	180 UJ	170 UJ	170 U	1,600 U	90 U	100 U	2,000 U	50 UJ
Endrin aldehyde	ug/kg	60 UJ	60 U	90 U	640 U	1,400 U	990 U	510 U	870 U	1,700 U	90 U	120 UJ	120 UJ	110 U	1,000 U	60 U	**410 J**	1,300 U	30 UJ
Endrin ketone	ug/kg	60 U	60 U	90 U	640 U	1,400 U	990 U	510 U	870 U	1,700 U	90 U	120 UJ	120 UJ	110 U	1,000 U	60 U	60 U	1,300 U	30 UJ
Gamma BHC	ug/kg	30 U	30 U	50 U	330 U	700 U	510 UJ	260 U	450 U	860 U	40 U	60 UJ	50 UJ	50 U	530 U	30 U	30 U	670 U	10 U
Gamma-chlordane	ug/kg	30 U	**70**	**50**	**610 J**	700 U	**460 J**	260 U	450 U	860 U	**60**	**110 J**	**100 J**	**350 J**	530 U	30 U	**270 NJ**	670 U	10 U
Heptachlor	ug/kg	30 U	30 U	50 U	330 U	700 U	510 U	260 U	450 U	860 U	40 U	60 UJ	50 UJ	50 U	530 U	30 U	30 UJ	670 U	10 UJ
Heptachlor epoxide	ug/kg	**80**	30 U	50 U	330 U	700 U	510 U	260 U	450 U	860 U	40 U	60 UJ	50 UJ	50 U	530 U	30 U	30 U	670 U	10 UJ
Methoxychlor	ug/kg	340 U	350 UJ	500 UJ	3,300 UJ	7,000 U	5,100 U	2,600 U	4,500 U	8,600 U	470 U	610 UJ	590 UJ	**1,000 NJ**	5,300 U	340 UJ	360 UJ	6,700 U	190 UJ
P,P'-DDD	ug/kg	**30 J**	**210 NJ**	**170 NJ**	**1,900 NJ**	1,400 U	990 U	510 U	870 U	1,700 U	**90 J**	**200 NJ**	**160 NJ**	**690 NJ**	1,000 U	60 UJ	**500 J**	**1,200 J**	30 UJ
P,P'-DDE	ug/kg	60 UJ	**170 NJ**	**150 NJ**	**1,700 J**	1,400 U	**1,600 NJ**	**540 NJ**	**930 J**	1,700 U	**110 J**	**290 NJ**	**230 NJ**	**440 NJ**	1,000 U	**90 J**	**390 J**	1,300 U	**70 NJ**
P,P'-DDT	ug/kg	**50 J**	60 UR	90 UR	640 UJ	1,400 UJ	990 U	510 UJ	870 UJ	1,700 UJ	**170 NJ**	120 UR	120 UR	110 UR	1,000 UJ	**40 J**	**990 J**	1,300 U	30 UR
Toxaphene	ug/kg	1,300 U	1,400 U	2,000 U	13,000 U	28,000 U	20,000 U	10,000 U	18,000 U	34,000 U	1,900 U	2,400 UJ	2,300 UJ	2,300 U	21,000 U	1,300 U	1,400 U	26,000 U	760 U
Total DDTs	ug/kg	**80**	**380**	**320**	**3,600**	ND	**1,600**	**540**	**930**	ND	**370**	**490**	**390**	**1,130**	ND	**130**	**1,880**	**1,200**	**70**

TABLE I-10A
Pesticide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		**GC-SED-98**	**GC-SED-99B**	**GC-SED-99B**
Sample Number:		**GC-SED-98(8.5-9.5)**	**GC-SED-99(3.5-4.5)**	**GC-SED-99(7.2-8.7)**
Sample Depth:		**8.5-9.5**	**3.5-4.5**	**7.2-8.7**
Sample Date:		**1/27/2006**	**12/22/2005**	**12/22/2005**
Sample Type:		**N**	**N**	**N**
Parameter	**Units**	**Pesticides**		
Aldrin	ug/kg	980 U	170 U	**200 NJ**
Alpha BHC	ug/kg	**940 J**	140 U	**60 J**
Alpha endosulfan	ug/kg	830 U	140 U	50 U
Alpha-chlordane	ug/kg	830 U	**240 J**	**60 NJ**
Beta BHC	ug/kg	830 U	140 U	**70 NJ**
Beta endosulfan	ug/kg	**380 J**	280 U	110 U
Delta BHC	ug/kg	830 UR	**30 J**	**40 J**
Dieldrin	ug/kg	1,600 U	280 U	110 U
Endosulfan sulfate	ug/kg	1,600 U	280 UJ	**140 NJ**
Endrin	ug/kg	2,400 U	430 U	170 U
Endrin aldehyde	ug/kg	1,600 U	280 UJ	110 UJ
Endrin ketone	ug/kg	1,600 U	280 U	110 U
Gamma BHC	ug/kg	830 U	140 U	50 U
Gamma-chlordane	ug/kg	830 U	**250**	**100 NJ**
Heptachlor	ug/kg	830 U	**60 J**	50 U
Heptachlor epoxide	ug/kg	830 U	**140 J**	**100**
Methoxychlor	ug/kg	8,300 U	**290 J**	**380 J**
P,P'-DDD	ug/kg	1,600 U	**1,100**	**350**
P,P'-DDE	ug/kg	1,600 U	**610 J**	**250**
P,P'-DDT	ug/kg	1,600 U	**300 NJ**	**280 NJ**
Toxaphene	ug/kg	33,000 U	5,700 U	2,200 U
Total DDTs	ug/kg	ND	**2,010**	**880**

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TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD107	GC-SD107	GC-SD107	GC-SD107	GC-SD124	GC-SD124	GC-SD124	GC-SD124	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD125	GC-SD126	GC-SD126	GC-SD126	GC-SD126
Sample Number:		GC-SD107-00.0-02.0	GC-SD107-02.0-04.0	GC-SD107-04.0-06.0	GC-SD107-06.0-08.0	GC-SD124-00.0-02.0	GC-SD124-02.0-04.0	GC-SD124-04.0-06.0	GC-SD124-06.0-07.5	GC-SD125-00.0-02.0	GC-SD125-02.0-04.0	GC-SD125-04.0-06.0	GC-SD125-06.0-08.0	GC-SD125-08.0-10.0	D-03092010-01	GC-SD126-00.0-02.0	GC-SD126-02.0-04.0	D-03042010-01	GC-SD126-04.0-06.0
Sample Depth:		0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-7.5	0-2	2-4	4-6	6-8	8-10	8-10	0-2	2-4	2-4	4-6
Sample Date:		3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/9/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N
Parameter	**Units**																		
									Metals										
Aluminum	mg/kg	**6,730**	**3,010**	**4,660**	**5,780**	**7,700 J**	**5,780 J**	**7,140**	**4,470**	**2,590**	**5,280**	**5,700**	**5,340 J**	**3,230**	**4,000**	**12,700 J**	**8,630 J**	**8,680 J**	**8,270**
Antimony	mg/kg	10.7 UJ	**18 J**	**37.2 J**	7.9 UJ	**1.2 J**	**2.7 J**	**23 J**	**14.1 J**	8.1 UJ	11.1 UJ	67.6 R	**42.4 J**	**17.7 J**	**11.6 J**	12.4 UJ	**2.8 J**	**2 J**	**3.3 J**
Arsenic	mg/kg	**3.5**	**2.9**	**12**	**5**	**4.3 J**	**4.9 J**	**23.9**	**17.2**	**1.7**	**7**	**10.7**	**22.2 J**	**11.4**	**14.3**	**8 J**	**11.9 J**	**13.2 J**	**22.7**
Barium	mg/kg	**232**	**327**	**1,150**	**201**	**67 J**	**118 J**	**978**	**936**	**331**	**664**	**1,210**	**1,050 J**	**862**	**1,530**	**113 J**	**436 J**	**408 J**	**436**
Beryllium	mg/kg	0.89 U	0.67 U	0.83 U	0.66 U	1.3 UJ	1.1 UJ	0.91 U	0.92 U	0.64 U	0.92 U	0.99 U	1.4 UJ	0.81 U	0.95 U	1 UJ	1.1 UJ	**0.36 J**	0.86 U
Cadmium	mg/kg	**1.9**	**2.4**	**9.7**	**1.9**	1.3 UJ	**1.1 J**	**11.8**	**6.3**	**0.47 J**	**7.2**	**12.3**	**17.7 J**	**6.2**	**10.3**	**2.1 J**	**5 J**	**5.3 J**	**5.1**
Calcium	mg/kg	**8,050**	**6,750**	**7,320**	**1,590**	**164,000 J**	**132,000 J**	**10,200**	**8,420**	**5,700**	**13,500**	**7,590**	**10,800 J**	**7,930**	**8,070**	**10,000 J**	**12,100 J**	**12,300 J**	**9,100**
Chromium	mg/kg	**75.5**	**42.5**	**170**	**53.3**	**30.7 J**	**42.1 J**	**162**	**73.1**	**13.5**	**97.1**	**168**	**197 J**	**69.8**	**148**	**76.4 J**	**58.6 J**	**65.6 J**	**64.2**
Cobalt	mg/kg	8.9 U	6.7 U	8.3 U	**7.5**	12.8 UJ	10.5 UJ	**9.7**	9.2 U	6.4 U	9.2 U	9.9 U	14 UJ	8.1 U	9.5 U	**9.5 J**	**8.2 J**	**8.2 J**	**9.1**
Copper	mg/kg	**200**	**203**	**666**	**128**	**56.4 J**	**102 J**	**874**	**388**	**68.8**	**353**	**713**	**989 J**	**377**	**741**	**182 J**	**456 J**	**471 J**	**306**
Iron	mg/kg	**17,200**	**10,300**	**23,100**	**10,200**	**17,000 J**	**13,800 J**	**39,300**	**25,600**	**8,310**	**19,400**	**20,300**	**30,900 J**	**18,700**	**22,900**	**27,400 J**	**27,100 J**	**26,100 J**	**33,200**
Lead	mg/kg	**505**	**1,080**	**2,240**	**395**	**63.6 J**	**214 J**	**2,190**	**1,240**	**212**	**1,210**	**1,790**	**2,780 J**	**2,080**	**1,540**	**265 J**	**716 J**	**685 J**	**803**
Magnesium	mg/kg	**5,700**	**3,120**	**4,140**	**2,430**	**4,310 J**	**3,690 J**	**5,240**	**3,960**	**2,650**	**5,200**	**4,510**	**5,210 J**	**3,440**	**3,780**	**7,490 J**	**6,710 J**	**7,210 J**	**4,390**
Manganese	mg/kg	**94.6**	**58.4**	**93.2**	**61**	**360 J**	**239 J**	**200 J**	**109 J**	**62.8**	**114**	**93.9**	**110 J**	**88**	**95.5**	**285 J**	**203 J**	**187 J**	**238**
Mercury	mg/kg	**2.2**	**0.84**	**2.1**	**1**	**0.45 J**	**0.63 J**	**1.4**	**3.9**	**0.29**	**7.2**	**4.3**	**3.6 J**	**1.5**	**4.5**	**1.5 J**	**3.3 J**	**4 J**	**2.1**
Nickel	mg/kg	**35.2**	**35.3**	**90.7**	**37.4**	**17.1 J**	**21 J**	**121**	**34.6**	**13.6**	**87.1**	**101**	**139 J**	**47.8**	**82.3**	**40.4 J**	**49.7 J**	**51.2 J**	**49.6**
Potassium	mg/kg	**1,500**	**632 J**	**782 J**	**929**	**1,820 J**	**1,400 J**	**1,080**	**1,230**	**547 J**	**919 J**	**982 J**	**919 J**	**589 J**	**706 J**	**3,170 J**	**1,830 J**	**1,860 J**	**1,540**
Selenium	mg/kg	6.2 U	4.7 U	**1.2 J**	4.6 U	8.9 UJ	7.4 UJ	**1 J**	**1.4 J**	4.5 U	6.5 U	6.9 U	**2.9 J**	**0.87 J**	6.6 U	7.2 UJ	**1.9 J**	8.1 UJ	**2.7 J**
Silver	mg/kg	**7.8 J**	**6.7 J**	**23.3 J**	**5.2 J**	1,277 UJ	**2.5 J**	**21.4**	**8.2**	**0.82 J**	**33.7 J**	**27.3 J**	**35.9 J**	**22.1 J**	**25.3 J**	**6.1 J**	**7.7 J**	**8.8 J**	**5.7**
Sodium	mg/kg	**6,770**	**2,770**	**1,900**	658 U	**2,690 J**	**2,410 J**	**5,780**	**5,990**	**1,620**	**2,520**	**1,480**	**1,430 J**	814 U	946 U	**9,290 J**	**8,440 J**	**9,700 J**	**2,160**
Thallium	mg/kg	4.5 U	3.4 U	4.2 U	3.3 U	**3.5 J**	**2 J**	**3.2 J**	**2 J**	3.2 U	4.6 U	4.9 U	7 UJ	4.1 U	4.7 U	5.2 UJ	5.4 UJ	5.8 UJ	4.3 U
Vanadium	mg/kg	**32.7**	**21.4**	**74.5**	**23.5**	**21.8 J**	**24.5 J**	**64.7**	**34.9**	**10.3**	**37.7**	**91**	**118 J**	**25.9**	**41.9**	**41.5 J**	**47.2 J**	**47.5 J**	**61**
Zinc	mg/kg	**489**	**436**	**1,420**	**365**	**130 J**	**214 J**	**1,550**	**1,690**	**356**	**984**	**1,480**	**2,270 J**	**1,260**	**1,820**	**372 J**	**927 J**	**891 J**	**631**
Cyanide, Total	mg/kg	**0.41 J**	**0.25 J**	**0.77 J**	3.4 U	6.3 UJ	5.4 UJ	4.7 U	4.6 U	3.2 U	4.4 U	4.9 U	6.9 UJ	4 U	4.6 U	5.3 UJ	5.4 UJ	5.7 UJ	4.2 U

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD126	GC-SD152	GC-SD152	GC-SD152	GC-SD152	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD108	GC-SD109	GC-SD109	GC-SD153	GC-SD153	GC-SD145	GC-SD145	GC-SD146	GC-SD146
Sample Number:		GC-SD126-06.0-06.6	GC-SD152-00.0-02.0	GC-SD152-02.0-04.0	GC-SD152-04.0-06.0	GC-SD152-06.0-07.3	GC-SD108-00.0-02.0	GC-SD108-02.0-04.0	GC-SD108-04.0-06.0	D-03052010-01	GC-SD108-06.0-08.0	GC-SD109-00.0-02.0	GC-SD109-02.0-04.0	GC-SD153-00.0-02.0	GC-SD153-02.0-03.2	GC-SD145-00.0-02.0	GC-SD145-02.0-03.5	GC-SD146-00.0-02.0	GC-SD146-02.0-04.0
Sample Depth:		6-6.6	0-2	2-4	4-6	6-7.3	0-2	2-4	4-6	4-6	6-8	0-2	2-4	0-2	2-3.2	0-2	2-3.5	0-2	2-4
Sample Date:		3/4/2010	4/15/2010	4/15/2010	4/15/2010	4/15/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/5/2010	3/4/2010	3/4/2010	4/15/2010	4/15/2010	4/9/2010	4/9/2010	4/12/2010	4/12/2010
Sample Type:		N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N
Parameter	**Units**											**Metals**							
Aluminum	mg/kg	**5,210**	**3,270**	**8,340 J**	**6,120**	**4,590**	**13,700 J**	**6,930**	**9,040 J**	**8,960 J**	**2,770**	**16,400 J**	**13,700 J**	**13,600 J**	**6,370**	**9,180 J**	**4,520**	**15,000 J**	**12,800 J**
Antimony	mg/kg	**3.4 J**	6.1 UJ	14.2 UJ	11.8 U	**12.5**	15 UJ	**2.9 J**	**4.9 J**	**4.6 J**	**3.4 J**	17.9 UJ	**0.75 J**	15 UJ	10.4 U	13.3 UJ	10.3 U	**2.4 J**	**3.7 J**
Arsenic	mg/kg	**7**	**3.3**	**13.5 J**	**18.4**	**23.9**	**8.3 J**	**9**	**14.4 J**	**14.4 J**	**6.6**	**8 J**	**9.1 J**	**9 J**	**8.1**	**11.7 J**	**20**	**9.5 J**	**16.9 J**
Barium	mg/kg	**1,130**	**202**	**1,690 J**	**1,230**	**1,860**	**189 J**	**633**	**1,410 J**	**1,460 J**	**348**	**108 J**	**229 J**	**135 J**	**380**	**338 J**	**1,740**	**136 J**	**403 J**
Beryllium	mg/kg	0.85 U	0.51 U	1.2 UJ	0.99 U	0.89 U	1.3 UJ	0.92 U	1 UJ	1.1 UJ	**0.22 J**	**0.61 J**	**0.64 J**	1.3 UJ	0.87 U	1.1 UJ	0.86 U	**0.78 J**	**0.83 J**
Cadmium	mg/kg	**8.7**	**3.1**	**21.3 J**	**13**	**5.9**	**4 J**	**10.9**	**23.8 J**	**22.9 J**	**4.2**	**2.7 J**	**3.8 J**	**3.2 J**	**6.6**	**5.2 J**	**5.1**	**2.7 J**	**10.1 J**
Calcium	mg/kg	**10,500**	**4,780 J**	**13,100 J**	**10,200 J**	**11,300 J**	**8,010 J**	**8,020**	**11,100 J**	**12,000 J**	**3,240**	**8,750 J**	**8,370 J**	**5,960 J**	**6,270 J**	**5,100 J**	**10,100 J**	**7,050 J**	**12,700 J**
Chromium	mg/kg	**137**	**50.5**	**272 J**	**171**	**76.3**	**93.6 J**	**158**	**312 J**	**295 J**	**61.2**	**75.1 J**	**89.7 J**	**87.8 J**	**130**	**99 J**	**56.7**	**80.4 J**	**125 J**
Cobalt	mg/kg	**5.2 J**	**3.2 J**	**8.7 J**	**7.5 J**	**6.4 J**	**9.9 J**	**7.1 J**	**10.1 J**	**9.2 J**	**3.2 J**	**11.7 J**	**11.7 J**	**10.3 J**	**6.2 J**	**9.4 J**	8.6 U	13.3 UJ	12.9 UJ
Copper	mg/kg	**521**	**200**	**990 J**	**724**	**458**	**263 J**	**531**	**939 J**	**952 J**	**229**	**223 J**	**258 J**	**234 J**	**360**	**292 J**	**483**	**252 J**	**448 J**
Iron	mg/kg	**18,900**	**9,710**	**26,300 J**	**28,100**	**22,000**	**28,300 J**	**22,000**	**29,600 J**	**28,900 J**	**11,400**	**31,800 J**	**31,300 J**	**28,000 J**	**23,400**	**30,800 J**	**21,100**	**30,400 J**	**32,800 J**
Lead	mg/kg	**1,270**	**317**	**1,980 J**	**1,430**	**1,350**	**381 J**	**1,440**	**1,830 J**	**1,830 J**	**517**	**251 J**	**399 J**	**308 J**	**645**	**750 J**	**1,340**	**269 J**	**704 J**
Magnesium	mg/kg	**4,130**	**2,600**	**6,240 J**	**4,010**	**3,160**	**8,410 J**	**5,490**	**7,250 J**	**7,400 J**	**1,670**	**9,710 J**	**7,610 J**	**7,660 J**	**3,610**	**6,120 J**	**3,090**	**9,230 J**	**9,540 J**
Manganese	mg/kg	**97.2**	**76.5 J**	**212 J**	**200 J**	**145**	**266 J**	**144**	**168 J**	**167 J**	**72.8 J**	**311 J**	**281 J**	**302 J**	**142**	**240 J**	**157**	**319 J**	**288 J**
Mercury	mg/kg	**2.5**	**1.1**	**7.6 J**	**5.9**	**6.2**	**2 J**	**2.2**	**4.3 J**	**6.9 J**	**1.2**	**1.6 J**	**1.2 J**	**1.4 J**	**1.8**	**1.6 J**	**7.7**	**1 J**	**1.7 J**
Nickel	mg/kg	**114**	**33**	**187 J**	**100**	**29.9**	**49.3 J**	**107**	**221 J**	**211 J**	**32.7**	**38.8 J**	**51.3 J**	**44.5 J**	**73.6**	**52.4 J**	**29**	**41 J**	**84.2 J**
Potassium	mg/kg	**940**	**687 J**	**1,310 J**	**1,060 J**	887 UJ	**3,550 J**	**1,350**	**1,700 J**	**1,640 J**	**502 J**	**4,140 J**	**3,080 J**	**3,520 J**	**907 J**	**2,520 J**	**1,080 J**	**3,960 J**	**3,140 J**
Selenium	mg/kg	**1.6 J**	**1.4 J**	**5.1 J**	**4.5 J**	**5.5 J**	8.8 UJ	**1.9 J**	**2.7 J**	**3.2 J**	5 U	10.4 UJ	8 UJ	**2.3 J**	**2.8 J**	3.9 UJ	6 U	**3 J**	**4.8 J**
Silver	mg/kg	**14.9**	**4.7**	**33.1 J**	**20.1**	**8.1**	**5.4 J**	**12.4**	**28 J**	**27.5 J**	**7.3**	**4.8 J**	**6.7 J**	**6.4 J**	**7.4**	**5.7 J**	**6.1**	**5.4 J**	**11.9 J**
Sodium	mg/kg	**1,230**	**2,100**	**2,220 J**	**1,230**	887 U	**12,800 J**	**6,740**	**5,880 J**	**5,500 J**	716 U	**12,600 J**	**3,330 J**	**5,360 J**	**896**	**7,220 J**	**1,820**	**9,810 J**	**3,860 J**
Thallium	mg/kg	4.3 U	2.5 U	**1.4 J**	4.9 U	**0.89 J**	6.3 UJ	4.6 U	5.1 UJ	5.3 UJ	3.6 U	7.5 UJ	5.7 UJ	6.3 UJ	4.3 U	2.8 UJ	4.3 U	6.7 UJ	**0.97 J**
Vanadium	mg/kg	**53.7**	**19.2**	**99.8 J**	**107**	**26.6**	**50.4 J**	**56.3**	**102 J**	**108 J**	**26.3**	**50.6 J**	**48.4 J**	**46.3 J**	**34.2**	**42.6 J**	**24.1**	**49.5 J**	**57.8 J**
Zinc	mg/kg	**1,070**	**380**	**1,630 J**	**1,360**	**2,010**	**559 J**	**1,140**	**1,690 J**	**1,730 J**	**531**	**499 J**	**692 J**	**438 J**	**775**	**736 J**	**1,880**	**480 J**	**979 J**
Cyanide, Total	mg/kg	4.3 U	2.5 U	**0.68 J**	**0.31 J**	**0.92 J**	6.1 UJ	4.7 U	5.2 UJ	5.4 UJ	3.4 U	7.4 UJ	5.6 UJ	6.3 UJ	4.2 U	**0.72 J**	**0.55 J**	6.7 UJ	**0.48 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD146	GC-SD147	GC-SD147	GC-SD148	GC-SD148	GC-SD148	GC-SD110	GC-SD110	GC-SD110	GC-SD127	GC-SD127	GC-SD127	GC-SD127	GC-SD128	GC-SD129	GC-SD129	GC-SD129	GC-SD129
Sample Number:		GC-SD146-04.0-06.0	GC-SD147-00.0-02.0	GC-SD147-02.0-03.1	GC-SD148-00.0-02.0	GC-SD148-02.0-04.0	GC-SD148-04.0-05.5	GC-SD110-00.0-02.0	GC-SD110-02.0-04.0	GC-SD110-04.0-05.0	GC-SD127-00.0-02.0	GC-SD127-02.0-04.0	GC-SD127-04.0-06.0	D-03112010-01	GC-SD128-00.0-02.0	GC-SD129-00.0-02.0	GC-SD129-02.0-04.0	GC-SD129-04.0-06.0	GC-SD129-06.0-06.5
Sample Depth:		4-6	0-2	2-3.1	0-2	2-4	4-5.5	0-2	2-4	4-5	0-2	2-4	4-6	4-6	0-2	0-2	2-4	4-6	6-6.5
Sample Date:		4/12/2010	4/9/2010	4/9/2010	4/14/2010	4/14/2010	4/14/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	3/11/2010	4/14/2010	4/14/2010	4/14/2010	4/14/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**7,330 J**	**10,600 J**	**7,110 J**	**15,000 J**	**7,780 J**	**6,430**	**15,600 J**	**9,350 J**	**7,370**	**13,000 J**	**8,940 J**	**6,810**	**7,190**	**14,100 J**	**11,900 J**	**7,210 J**	**6,340**	**7,950**
Antimony	mg/kg	**3.8 J**	17.7 UJ	13.7 UJ	15.2 UJ	13.4 UJ	10.7 U	15.9 UJ	14.4 UJ	10.3 UJ	15.2 UJ	12.9 UJ	11.5 UJ	11.3 UJ	14.8 UJ	14.8 UJ	12.1 UJ	11 U	9.9 U
Arsenic	mg/kg	**10.9 J**	**10.4 J**	**13.8 J**	**8.9 J**	**19.7 J**	**25.5**	**11.5 J**	**11.8 J**	**8.8**	**9.2 J**	**21.3 J**	**28.7**	**34.6**	**11.4 J**	**13.2 J**	**13.6 J**	**39.3**	**18.1**
Barium	mg/kg	**524 J**	**270 J**	**522 J**	**126 J**	**631 J**	**729**	**313 J**	**725 J**	**479 J**	**259 J**	**2,030 J**	**1,370 J**	**1,450 J**	**349 J**	**398 J**	**491 J**	**584**	**197**
Beryllium	mg/kg	**0.37 J**	1.5 UJ	1.1 UJ	1.3 UJ	1.1 UJ	0.89 U	**0.79 J**	**0.47 J**	**0.36 J**	**0.63 J**	**0.58 J**	**0.53 J**	**0.53 J**	**0.74 J**	1.2 UJ	1 UJ	0.92 U	0.83 U
Cadmium	mg/kg	**13 J**	**6.1 J**	**13.8 J**	**2.8 J**	**12.1 J**	**4**	**3.6 J**	**7.2 J**	**3.7**	**4 J**	**26.2 J**	**4.4**	**5.4**	**7 J**	**9.2 J**	**12.5 J**	**4.3**	**2.2**
Calcium	mg/kg	**9,150 J**	**8,280 J**	**10,100 J**	**7,440 J**	**10,700 J**	**10,600 J**	**10,900 J**	**12,500 J**	**6,020**	**9,400 J**	**11,300 J**	**9,200**	**11,100**	**8,750 J**	**13,100 J**	**9,850 J**	**28,700 J**	**6,470 J**
Chromium	mg/kg	**152 J**	**118 J**	**202 J**	**93 J**	**196 J**	**49.4**	**108 J**	**119 J**	**77.8**	**101 J**	**492 J**	**59.6**	**69.1**	**171 J**	**174 J**	**215 J**	**46**	**186**
Cobalt	mg/kg	11.8 UJ	14.7 UJ	11.4 UJ	**11.9 J**	**10.1 J**	**7.2 J**	**11.1 J**	**8.3 J**	**5.9 J**	**9.4 J**	**10.3 J**	**6 J**	**7 J**	**11 J**	**16 J**	**9.9 J**	**7.3 J**	**7.5 J**
Copper	mg/kg	**420 J**	**414 J**	**591 J**	**222 J**	**567 J**	**366**	**324 J**	**494 J**	**215**	**369 J**	**1,120 J**	**469**	**498**	**487 J**	**514 J**	**652 J**	**637**	**368**
Iron	mg/kg	**27,300 J**	**28,000 J**	**39,300 J**	**30,400 J**	**33,500 J**	**21,500**	**33,300 J**	**28,900 J**	**19,100**	**29,500 J**	**35,500 J**	**22,900**	**22,700**	**35,300 J**	**33,300 J**	**27,000 J**	**23,000**	**21,900**
Lead	mg/kg	**666 J**	**575 J**	**1,080 J**	**344 J**	**1,210 J**	**785**	**431 J**	**754 J**	**414 J**	**464 J**	**1,690 J**	**987 J**	**1,100 J**	**705 J**	**875 J**	**1,050 J**	**969**	**813**
Magnesium	mg/kg	**5,480 J**	**8,060 J**	**5,970 J**	**8,590 J**	**5,680 J**	**3,430**	**8,600 J**	**7,210 J**	**4,510**	**8,740 J**	**7,120 J**	**3,850**	**4,360**	**8,130 J**	**9,650 J**	**6,340 J**	**4,000**	**4,130**
Manganese	mg/kg	**384 J**	**237 J**	**170 J**	**336 J**	**326 J**	**515**	**455 J**	**380 J**	**241 J**	**281 J**	**167 J**	**166 J**	**160 J**	**286 J**	**252 J**	**144 J**	**144**	**135**
Mercury	mg/kg	**1.2 J**	**2.8 J**	**2.2 J**	**1.4 J**	**2.5 J**	**5.1**	**2 J**	**1.1 J**	**1.1**	**2.6 J**	**5 J**	**0.58**	**2.7**	**1.5 J**	**1.3 J**	**3.2 J**	**8.5**	**9.4**
Nickel	mg/kg	**87.3 J**	**66.6 J**	**142 J**	**43.6 J**	**133 J**	**35**	**54.2 J**	**79 J**	**57.6**	**57.4 J**	**318 J**	**36.7**	**50.1**	**102 J**	**140 J**	**143 J**	**36.7**	**27.6**
Potassium	mg/kg	**1,700 J**	**2,950 J**	**1,600 J**	**3,900 J**	**1,700 J**	**1,620 J**	**3,050 J**	**1,880 J**	**1,400**	**3,410 J**	**1,970 J**	**1,700**	**1,720**	**3,230 J**	**3,740 J**	**1,760 J**	**1,530 J**	**1,490 J**
Selenium	mg/kg	8.3 UJ	10.3 UJ	8 UJ	**2.6 J**	**4.4 J**	**4.8 J**	**1.5 J**	**1.4 J**	**0.8 J**	**1.3 J**	**3.2 J**	**4 J**	**4.6 J**	**1.7 J**	**4.1 J**	**4.1 J**	**6.4 J**	**4.4 J**
Silver	mg/kg	**9.2 J**	**8.3 J**	**13.1 J**	**6.2 J**	**11.1 J**	**5.3**	**10.8 J**	**10.8 J**	**4.7**	**7.4 J**	**27.5 J**	**6.6**	**7.4**	**10.7 J**	**10.5 J**	**11.2 J**	**7.2**	**6.4**
Sodium	mg/kg	**1,520 J**	**10,400 J**	**1,600 J**	**5,750 J**	1,117 UJ	894 U	**1,560 J**	**1,350 J**	860 U	**11,100 J**	**9,870 J**	**5,790**	**4,900**	**5,470 J**	**10,000 J**	**4,590 J**	**3,360**	**2,770**
Thallium	mg/kg	5.9 UJ	7.4 UJ	5.7 UJ	**1.6 J**	**1.1 J**	**1.5 J**	**0.97 J**	**1.4 J**	**0.88 J**	**1 J**	**1.4 J**	**1.8 J**	**1.8 J**	**1.6 J**	**1.6 J**	5 UJ	**1.3 J**	**0.73 J**
Vanadium	mg/kg	**52.7 J**	**52.4 J**	**59.5 J**	**50.8 J**	**51 J**	**31.7**	**56.3 J**	**47.5 J**	**33.1**	**48.7 J**	**145 J**	**38.7**	**45.2**	**62.8 J**	**55.8 J**	**59.4 J**	**24.6**	**25.6**
Zinc	mg/kg	**872 J**	**828 J**	**1,440 J**	**468 J**	**1,520 J**	**1,270**	**642 J**	**971 J**	**506**	**643 J**	**2,020 J**	**1,620**	**1,740**	**853 J**	**1,140 J**	**1,250 J**	**1,330**	**801**
Cyanide, Total	mg/kg	**0.49 J**	7.4 UJ	**1.5 J**	6.6 UJ	**0.5 J**	4.4 U	6.6 UJ	6.1 UJ	4.5 U	6.3 UJ	5.6 UJ	4.9 U	4.9 U	6.3 UJ	**0.55 J**	**0.49 J**	**0.33 J**	**0.55 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD111	GC-SD112	GC-SD112	GC-SD112	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD113	GC-SD37B	GC-SD37B	GC-SD38A	GC-SD38A
Sample Number:		GC-SD111-00.0-02.0	GC-SD111-02.0-04.0	D-03162010-02	GC-SD111-04.0-06.0	GC-SD111-06.0-08.0	GC-SD112-00.0-02.0	GC-SD112-02.0-04.0	D-03122010-01	GC-SD113-00.0-02.0	GC-SD113-02.0-04.0	GC-SD113-04.0-06.0	D-03152010-01	GC-SD113-06.0-08.0	GC-SD113-08.0-09.0	GC-SD037B-00.0-00.5	GC-SD037B-02.5-04.2	GC-SD038A-02.1-02.6	GC-SD038A-02.6-04.4
Sample Depth:		0-2	2-4	2-4	4-6	6-8	0-2	2-4	2-4	0-2	2-4	4-6	4-6	6-8	8-9	0-0.5	2.5-4.2	2.1-2.6	2.6-4.4
Sample Date:		3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/16/2010	3/12/2010	3/12/2010	3/12/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	3/15/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010
Sample Type:		N	N	FD	N	N	N	N	FD	N	N	N	FD	N	N	N	N	N	N
Parameter	**Units**																		
		Metals																	
Aluminum	mg/kg	**11,700 J**	**10,200 J**	**9,390 J**	**11,200 J**	**7,130 J**	**4,030**	**4,250**	**4,720**	**8,460**	**7,580 J**	**8,480**	**6,300**	**8,810 J**	**3,630**	**9,780 J**	**3,870**	**5,750**	**4,950**
Antimony	mg/kg	14.3 UJ	14.6 UJ	13.9 UJ	15.4 UJ	9 UJ	**0.98 J**	**2.9 J**	**4.1 J**	**2 J**	**2.9 J**	**3.5 J**	**2.3 J**	**6.2 J**	**2.9 J**	15.2 UJ	10.6 UJ	10.3 UJ	10.1 UJ
Arsenic	mg/kg	**13.3 J**	**19.7 J**	**20.4 J**	**31.7 J**	**16.6**	**2.9**	**8.9**	**10.3**	**10.6**	**10.3 J**	**11**	**8.9**	**33.1 J**	**23.9**	**6.7 J**	**20**	**24.2**	**21.4**
Barium	mg/kg	**558 J**	**1,360 J**	**2,010 J**	**1,790 J**	**419 J**	**99**	**393**	**751**	**270 J**	**322 J**	**352 J**	**308 J**	**1,150 J**	**279 J**	**67.8 J**	**757**	**447**	**464**
Beryllium	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	0.75 U	0.63 U	0.66 U	0.77 U	**0.65 J**	**0.54 J**	**0.48 J**	**0.29 J**	**1.1 J**	**0.24 J**	1.3 UJ	0.89 U	0.86 U	0.84 U
Cadmium	mg/kg	**14.6 J**	**33.2 J**	**38.6 J**	**38.3 J**	**9.8**	**1.3**	**5.6**	**7.4**	**5.7**	**9.5 J**	**10.2**	**6**	**7 J**	**3.2**	**1.4 J**	**10.2**	**14.4**	**9**
Calcium	mg/kg	**14,000 J**	**12,000 J**	**10,700 J**	**11,000 J**	**3,710**	**16,600**	**12,600**	**17,800**	**14,800**	**11,000 J**	**8,150**	**12,800**	**14,300 J**	**4,380**	**7,730 J**	**5,450 J**	**12,600 J**	**6,190 J**
Chromium	mg/kg	**314 J**	**582 J**	**594 J**	**719 J**	**151**	**35.4**	**250**	**401**	**146**	**187 J**	**144**	**110**	**59.5 J**	**24.4**	**48.1 J**	**142**	**227**	**87.1**
Cobalt	mg/kg	11.9 UJ	**12.6 J**	11.6 UJ	12.8 UJ	**7.6**	6.3 U	6.6 U	7.7 U	**7.6 J**	**8.8 J**	**6.1 J**	**6.3 J**	**5.9 J**	**3.9 J**	**7 J**	**8.6 J**	**9.8**	**6.6 J**
Copper	mg/kg	**633 J**	**1,050 J**	**1,230 J**	**1,380 J**	**349**	**86.2**	**1,610**	**546**	**313**	**433 J**	**319**	**228**	**957 J**	**164**	**115 J**	**414**	**491**	**378**
Iron	mg/kg	**32,300 J**	**34,700 J**	**30,700 J**	**34,100 J**	**19,900 J**	**14,900**	**20,000**	**20,500**	**26,600**	**26,200 J**	**22,100**	**33,700**	**28,900 J**	**17,400**	**20,200 J**	**33,000**	**50,300**	**23,900**
Lead	mg/kg	**1,170 J**	**1,860 J**	**1,960 J**	**1,770 J**	**549 J**	**346**	**1,030**	**1,260**	**626**	**638 J**	**529**	**453**	**1,270 J**	**2,440**	**126 J**	**1,070**	**802**	**777**
Magnesium	mg/kg	**9,760 J**	**8,600 J**	**7,610 J**	**7,930 J**	**3,520**	**10,400**	**6,540**	**5,590**	**8,600**	**11,700 J**	**7,260**	**6,730**	**5,950 J**	**2,580**	**7,630 J**	**3,360**	**5,310**	**3,190**
Manganese	mg/kg	**219 J**	**183 J**	**158 J**	**192 J**	**124**	**121**	**163**	**161**	**169**	**142 J**	**170**	**176**	**187 J**	**121**	**220 J**	**151**	**224**	**108**
Mercury	mg/kg	**2.1 J**	**4.3 J**	**4.8 J**	**4.7 J**	**2.4**	**0.37**	**2.2**	**1**	**1.6 J**	**3.7 J**	**1.4 J**	**0.8 J**	**1.9 J**	**3.7 J**	**0.45 J**	**3.4**	**1.8**	**2.1**
Nickel	mg/kg	**186 J**	**374 J**	**484 J**	**443 J**	**69.5**	**28.8**	**173**	**254**	**88.9**	**137 J**	**91.8**	**70.7**	**36.6 J**	**19.7**	**23 J**	**96**	**132**	**28.6**
Potassium	mg/kg	**3,330 J**	**2,410 J**	**2,270 J**	**2,650 J**	**1,680**	**1,010**	**936**	**1,110**	**2,340**	**1,980 J**	**1,670**	**1,130**	**2,370 J**	**932**	**2,830 J**	**994 J**	**1,440 J**	**1,310 J**
Selenium	mg/kg	**4.5 J**	**5.5 J**	**5.2 J**	**5.6 J**	**3.3 J**	4.4 U	4.6 U	5.4 U	6.5 U	8.1 UJ	6 U	5 U	8.3 UJ	5.6 U	8.8 UJ	6.2 U	**7.1**	5.9 U
Silver	mg/kg	**12.7 J**	**24.6 J**	**30 J**	**31.2 J**	**12.5**	**1.1 J**	**4**	**4.8**	**6.8**	**8.5 J**	**6.6**	**5.6**	**8.1 J**	**1.8**	**2.1 J**	**7.4**	**18.4**	**11.1**
Sodium	mg/kg	**12,800 J**	**13,000 J**	**12,800 J**	**12,900 J**	**3,960**	**4,570**	**4,710**	**5,590**	**8,550**	**11,100 J**	**5,200**	**4,430**	**4,190 J**	**1,860**	**10,200 J**	**5,500**	**6,070**	**5,500**
Thallium	mg/kg	**6.3 J**	**6.7 J**	**5.7 J**	**7.3 J**	**3.9 J**	3.2 U	**1.1 J**	**1.8 J**	**3 J**	5.8 UJ	4.3 U	**3.6**	6 UJ	4 U	6.3 UJ	**1.1 J**	**2.9 J**	**1.3 J**
Vanadium	mg/kg	**75.7 J**	**114 J**	**142 J**	**199 J**	**47.1**	**14.7**	**42.5**	**54.6**	**47**	**48.1 J**	**38.5**	**26.6**	**31.9 J**	**17.8**	**29.7 J**	**40.6**	**72.9**	**35.7**
Zinc	mg/kg	**1,290 J**	**2,100 J**	**2,170 J**	**2,350 J**	**725**	**289**	**968**	**1,380**	**696**	**857 J**	**943**	**549**	**1,870 J**	**2,480**	**227 J**	**1,340**	**966**	**1,080**
Cyanide, Total	mg/kg	5.9 UJ	6.8 UJ	6 UJ	6.2 UJ	3.6 U	3.2 U	3.4 U	3.8 U	4.6 UJ	5.8 UJ	4.1 UJ	**4.6 J**	5.8 UJ	4.1 UJ	**0.52 J**	**1.2 J**	**0.46 J**	**0.41 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD116	GC-SD116	GC-SD116	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD117	GC-SD115	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD130	GC-SD131	GC-SD132	GC-SD132	GC-SD118
Sample Number:		GC-SD116-00.0-02.0	GC-SD116-02.0-04.0	GC-SD116-04.0-06.0	GC-SD117-00.0-02.0	GC-SD117-02.0-04.0	GC-SD117-04.0-06.0	D-03182010-01	GC-SD117-06.0-07.6	GC-SD115-00.0-01.5	GC-SD130-00.0-02.0	GC-SD130-02.0-04.0	D-03222010-01	GC-SD130-04.0-06.0	GC-SD130-06.0-07.0	GC-SD131-00.0-01.3	GC-SD132-00.0-02.0	GC-SD132-02.0-04.0	GC-SD118-00.2-00.7
Sample Depth:		0-2	2-4	4-6	0-2	2-4	4-6	4-6	6-7.6	0-1.5	0-2	2-4	2-4	4-6	6-7	0-1.3	0-2	2-4	0.2-0.7
Sample Date:		3/17/2010	3/17/2010	3/17/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/18/2010	3/17/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/22/2010	3/18/2010	3/22/2010	3/22/2010	4/1/2010
Sample Type:		N	N	N	N	N	N	FD	N	N	N	N	FD	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**13,100 J**	**12,300 J**	**4,490**	**14,400 J**	**12,500 J**	**10,800 J**	**10,500 J**	**5,910**	**2,340**	**7,650**	**6,720**	**8,630**	**8,420 J**	**3,880**	**2,450**	**10,500 J**	**6,340**	**2,340**
Antimony	mg/kg	19.2 UJ	16.6 UJ	11.1 U	**4.4 J**	**7.2 J**	**12.4 J**	**6.3 J**	**4.8 J**	7.5 U	**2.8 J**	**3.4 J**	**3.3 J**	**3 J**	**3 J**	**2.2 J**	**1.9 J**	**2.5 J**	7.7 U
Arsenic	mg/kg	**21.6 J**	**22.1 J**	**10**	**17.6 J**	**20.9 J**	**21 J**	**20.5 J**	**15.7**	**6.2**	**13.8**	**15.2**	**16.1**	**19.7 J**	**14.2**	**3.7**	**18.8 J**	**32.9**	**12.7**
Barium	mg/kg	**571 J**	**1,470 J**	**635 J**	**891 J**	**1,500 J**	**1,390 J**	**1,320 J**	**355**	**48.7 J**	**250**	**308**	**301**	**359 J**	**197**	**213**	**382 J**	**299**	**395 J**
Beryllium	mg/kg	1.6 UJ	1.4 UJ	0.92 U	1.6 UJ	1.5 UJ	1.3 UJ	1.3 UJ	0.73 U	0.62 U	**0.32 J**	**0.29 J**	**0.38 J**	**0.4 J**	**0.2 J**	0.56 U	**0.46 J**	**0.25 J**	**0.15 J**
Cadmium	mg/kg	**15.1 J**	**56.1 J**	**17**	**35.1 J**	**65.4 J**	**42.8 J**	**39.8 J**	**4.5**	**1.2**	**10.9**	**12.9**	**11.9**	**2.8 J**	**2**	**1.2**	**19.4 J**	**1.9**	**4.3**
Calcium	mg/kg	**22,000 J**	**14,600 J**	**4,480**	**17,500 J**	**13,100 J**	**11,700 J**	**11,000 J**	**4,130**	**8,110**	**16,800**	**25,400**	**46,000**	**32,000 J**	**18,300**	**11,600**	**14,400 J**	**8,110**	**6,880**
Chromium	mg/kg	**289 J**	**695 J**	**210**	**469 J**	**651 J**	**501 J**	**458 J**	**57.2**	**27.9**	**159**	**132**	**132**	**46.4 J**	**42.2**	**20.4**	**243 J**	**40**	**79.7**
Cobalt	mg/kg	16 UJ	13.9 UJ	9.2 U	**11 J**	**12.5 J**	**11.1 J**	**10.4 J**	**6 J**	**2.3 J**	**6.8 J**	**5.8 J**	**6 J**	**5 J**	**3.9 J**	**2.8 J**	**9.3 J**	**6.3 J**	**14.8**
Copper	mg/kg	**529 J**	**1,180 J**	**412**	**828 J**	**1,180 J**	**982 J**	**945 J**	**466**	**89.6**	**353**	**327**	**387**	**238 J**	**185**	**139**	**570 J**	**673**	**186**
Iron	mg/kg	**31,500 J**	**34,100 J**	**15,800**	**30,700 J**	**31,800 J**	**28,900 J**	**27,900 J**	**16,700**	**12,500**	**21,900**	**20,100**	**23,200**	**16,100 J**	**13,300**	**7,880**	**28,600 J**	**19,400**	**16,700**
Lead	mg/kg	**809 J**	**1,610 J**	**770**	**1,040 J**	**1,570 J**	**1,430 J**	**1,370 J**	**420**	**112**	**552**	**865**	**567**	**459 J**	**432**	**137**	**752 J**	**779**	**750**
Magnesium	mg/kg	**15,300 J**	**10,200 J**	**3,290**	**11,200 J**	**8,880 J**	**7,560 J**	**7,070 J**	**2,640**	**3,590**	**10,500**	**12,900**	**18,100**	**17,900 J**	**5,600**	**5,870**	**10,100 J**	**4,100**	**1,520**
Manganese	mg/kg	**259 J**	**215 J**	**84**	**218 J**	**195 J**	**171 J**	**164 J**	**90.3**	**82**	**162**	**149**	**198**	**187 J**	**98.8**	**61.8**	**208 J**	**111**	**118**
Mercury	mg/kg	**1.8 J**	**5.6 J**	**2.1**	**4 J**	**4.6 J**	**5.1 J**	**4.7 J**	**2.6**	**0.28**	**1.6**	**0.91**	**1.4**	**1.6 J**	**1.4**	**0.13**	**2.1 J**	**3**	**0.49**
Nickel	mg/kg	**143 J**	**373 J**	**137**	**222 J**	**370 J**	**347 J**	**304 J**	**34.5**	**15.7**	**69.5**	**57.8**	**67.7**	**27 J**	**18.9**	**14.3**	**118 J**	**26.2**	**32.4**
Potassium	mg/kg	**3,230 J**	**2,680 J**	**1,050 J**	**2,980 J**	**2,600 J**	**2,260 J**	**2,290 J**	**1,280**	622 UJ	**1,870**	**1,130**	**1,420**	**1,330 J**	**596 J**	**627**	**2,350 J**	**1,430**	639 U
Selenium	mg/kg	**4.1 J**	**5.6 J**	**2.5 J**	11.4 UJ	10.8 UJ	8.9 UJ	**1.8 J**	**1.3 J**	**1.3 J**	6.5 U	5.6 U	6.6 U	8.9 UJ	**1.1 J**	3.9 U	6.8 UJ	**3 J**	**1.7 J**
Silver	mg/kg	**11 J**	**27.4 J**	**11.6**	**19.6 J**	**32.2 J**	**25.2 J**	**24.3 J**	**3.9**	**0.92 J**	**6.8**	**8.8**	**8.4**	**3.1 J**	**2.5**	**0.7 J**	**12.2 J**	**4.6**	**2.4**
Sodium	mg/kg	**18,400 J**	**13,300 J**	**3,940**	**9,270 J**	**7,560 J**	**5,280 J**	**5,230 J**	**1,510**	**1,720**	**7,710**	**6,520**	**9,140**	**12,200 J**	**2,300**	**2,480**	**9,120 J**	**5,690**	639 U
Thallium	mg/kg	**8.7 J**	**9 J**	**3.5 J**	8.1 UJ	7.7 UJ	6.4 UJ	**2 J**	**1.3 J**	**2.1 J**	**1.3 J**	4 U	4.7 U	6.4 UJ	**1.2 J**	2.8 U	**2.2 J**	**1.6 J**	3.2 U
Vanadium	mg/kg	**64.9 J**	**105 J**	**58.3**	**77.3 J**	**109 J**	**112 J**	**108 J**	**26.4**	**13.8**	**35.2**	**49**	**55.1**	**29.9 J**	**16.7**	**17.7**	**50.3 J**	**21.3**	**21.4**
Zinc	mg/kg	**1,200 J**	**2,220 J**	**864**	**1,610 J**	**2,140 J**	**1,940 J**	**1,760 J**	**450**	**127**	**747**	**688**	**686**	**617 J**	**481**	**148**	**1,150 J**	**844**	**518 J**
Cyanide, Total	mg/kg	8 UJ	6.9 UJ	4.6 U	**1.2 J**	7.7 UJ	**1 J**	**0.91 J**	**1.7 J**	3 U	4.7 U	4.2 U	4.7 U	6.4 UJ	3.3 U	2.8 U	5 UJ	3.6 U	3.2 U

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD119	GC-SD149	GC-SD149	GC-SD149	GC-SD120	GC-SD133	GC-SD133	GC-SD133	GC-SD133	GC-SD134	GC-SD134	GC-SD135	GC-SD135
Sample Number:		GC-SD119-00.0-01.2	GC-SD119-04.5-06.0	GC-SD119-06.0-08.0	D-03312010-01	GC-SD119-08.0-10.0	GC-SD119-10.0-12.0	GC-SD149-00.0-02.0	GC-SD149-02.0-04.0	GC-SD149-04.0-04.7	GC-SD120-00.0-01.3	GC-SD133-00.0-02.0	GC-SD133-02.0-04.0	GC-SD133-04.0-06.0	GC-SD133-06.0-07.8	GC-SD134-00.0-02.0	GC-SD134-02.0-04.0	GC-SD135-00.0-02.0	GC-SD135-02.0-04.0
Sample Depth:		0-1.2	4.5-6	6-8	6-8	8-10	10-12	0-2	2-4	4-4.7	0-1.3	0-2	2-4	4-6	6-7.8	0-2	2-4	0-2	2-4
Sample Date:		3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	3/31/2010	4/12/2010	4/12/2010	4/12/2010	3/31/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/6/2010
Sample Type:		N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**9,510 J**	6,170	**9,560 J**	**8,730 J**	8,660	4,800	2,450	5,820	14,600	2,460	5,060	4,580	5,960	4,000	4,770	3,180	8,290	6,580
Antimony	mg/kg	15 UJ	9.3 U	12.5 UJ	12.1 UJ	10.8 U	7.6 UJ	**2.1 J**	**5.5 J**	9 U	7 UJ	10.1 U	10.2 U	9.6 U	7.4 UJ	9.1 U	9.2 U	10.9 U	9.2 U
Arsenic	mg/kg	**13.6 J**	**7.5**	**23.7 J**	**23.4 J**	**18.4**	**4.9**	**5**	**105**	**13.2**	**7.3**	**7.7 J**	**10.7 J**	**14.8 J**	**17.4 J**	**4.5 J**	**11.2 J**	**8.5 J**	**7.7 J**
Barium	mg/kg	**694 J**	**158 J**	**831 J**	**604 J**	**287 J**	**51.5 J**	**109**	**297**	**124**	**28.4 J**	**392**	**589**	**542**	**375**	**236**	**270**	**157**	**355**
Beryllium	mg/kg	1.3 UJ	**0.47 J**	**0.64 J**	**0.65 J**	**0.56 J**	**0.31 J**	**0.18 J**	**0.39 J**	**0.71 J**	**0.21 J**	**0.45 J**	**0.23 J**	**0.33 J**	**0.27 J**	0.75 U	0.77 U	**0.35 J**	**0.44 J**
Cadmium	mg/kg	**30.6 J**	**3**	**5.9 J**	**5.5 J**	**4.1**	**1.3**	**8.5**	**6**	**1.3**	**0.41 J**	**28.4**	**33.3**	**28.5**	**5.7**	**12.6**	**13.6**	**5.2**	**15.3 J**
Calcium	mg/kg	**42,200 J**	**38,500**	**31,200 J**	**33,200 J**	**35,800**	**4,990**	**5,280 J**	**3,870 J**	**2,380 J**	**1,020**	**6,710**	**5,340**	**7,230**	**4,180**	**6,030**	**6,140**	**7,280**	**8,100**
Chromium	mg/kg	**209 J**	**34.9**	**64.7 J**	**58.2 J**	**39**	**15.2**	**42.9**	**54.2**	**36.8**	**8.1**	**176**	**444**	**237**	**75.1**	**91.6**	**128**	**73**	**154**
Cobalt	mg/kg	**7.6 J**	**3.6 J**	**7.1 J**	**6.2 J**	**7 J**	**4.4 J**	6.5 U	7.9 U	**12**	**6.3**	8.4 U	8.5 U	8 U	6.2 U	**6.7 J**	**5.1 J**	9.1 U	**9.5**
Copper	mg/kg	**466 J**	**99.789**	**343 J**	**317 J**	**182**	**43.3**	**99.8849**	**506**	**103**	**23.8**	**444**	**622**	**518**	**260**	**215**	**250**	**180**	**270**
Iron	mg/kg	**28,300 J**	**13,700**	**22,300 J**	**23,600 J**	**16,000**	**9,640**	**12,100**	**19,400**	**21,700**	**6,730**	**21,400**	**21,700**	**21,400**	**15,700**	**14,800**	**17,800**	**19,700**	**20,300**
Lead	mg/kg	**1,230 J**	**259**	**790 J**	**622 J**	**441**	**69.7**	**223**	**818**	**151**	**41.8**	**978**	**1,050**	**738**	**515**	**510**	**850**	**378**	**654**
Magnesium	mg/kg	**14,500 J**	**14,200**	**15,500 J**	**13,300 J**	**17,300**	**4,150**	**2,010**	**3,070**	**5,380**	**1,030**	**4,200**	**3,570**	**4,400**	**2,250**	**4,680**	**3,320**	**7,090**	**5,490**
Manganese	mg/kg	**202 J**	**145**	**231 J**	**221 J**	**206**	**138**	**78.4**	**147**	**343**	**63.3**	**106**	**87.5**	**116**	**98**	**88.5**	**96.3**	**173**	**145**
Mercury	mg/kg	**5.1 J**	**8.8**	**5.3 J**	**7 J**	**3**	**0.61**	**0.45**	**6.3**	**1.5**	**0.33**	**1.5**	**2.9**	**1.7**	**2.2**	**0.69**	**1.1**	**0.41**	**1 J**
Nickel	mg/kg	**113 J**	**17.1**	**33.8 J**	**30.5 J**	**37.9**	**22.7**	**22.7**	**28.7**	**58.9**	**9**	**91.3**	**142**	**76.2**	**24.4**	**60.4**	**49.7**	**36.9**	**58.2 J**
Potassium	mg/kg	**1,830 J**	**864**	**1,900 J**	**1,750 J**	**1,530**	**1,180**	**552 J**	**1,560 J**	**2,690 J**	586 U	**1,020 J**	**975 J**	**1,200 J**	**937 J**	**1,170 J**	**831 J**	**2,140 J**	**1,430 J**
Selenium	mg/kg	8.8 UJ	5.4 U	**2.7 J**	**3.3 J**	**2.4 J**	4.5 U	4.6 U	**9.6**	3.8 U	4.1 U	**2.5 J**	**2.7 J**	**2.9 J**	**2.3 J**	5.3 U	5.4 U	**1.8 J**	**2.3 J**
Silver	mg/kg	**10 J**	**1.3 J**	**3.9 J**	**3.8 J**	**2.3**	**0.31 J**	**2.5**	**3**	**0.41 J**	**0.2 J**	**8.4**	**12.4**	**14.3**	**6.9**	**5.8**	**3.8**	**5**	**5 J**
Sodium	mg/kg	**9,970 J**	**4,330**	**7,120 J**	**6,480 J**	**4,730**	**1,680**	**2,540**	**2,530**	**1,320**	**605**	**1,790**	**2,030**	**1,660**	618 U	**4,510**	**5,020**	**6,750**	**3,340**
Thallium	mg/kg	**2.2 J**	**0.84 J**	**1.6 J**	**2.2 J**	**1.9 J**	3.2 U	3.3 U	3.9 U	2.7 U	2.9 U	4.2 U	4.2 U	4 U	3.1 U	3.8 U	3.8 U	4.5 U	3.8 U
Vanadium	mg/kg	**82.4 J**	**18.2**	**34.6 J**	**32 J**	**25.4**	**13.4**	**13.8**	**22.9**	**35.8**	**6.7**	**52.7**	**78.5**	**61.5**	**23**	**20.4**	**24.1**	**30.2**	**28.4**
Zinc	mg/kg	**1,010 J**	**375**	**1,160 J**	**978 J**	**548**	**109**	**240**	**829**	**226**	**66.1**	**1,170**	**1,410**	**1,100**	**767**	**621**	**746**	**595**	**747**
Cyanide, Total	mg/kg	**1 J**	**1.2 J**	**1.7 J**	**1.1 J**	**1.5 J**	**0.21 J**	3.2 U	**2.3 J**	**0.39 J**	2.9 U	**0.33 J**	**0.45 J**	**0.54 J**	**0.5 J**	3.8 U	**0.42 J**	4.5 U	**0.32 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD135	GC-SD135	GC-SD135	GC-SD135	GC-SD122	GC-SD136	GC-SD138	GC-SD150	GC-SD150	GC-SD150	GC-SD150	GC-SD151	GC-SD151	GC-SD151	GC-SD123	GC-SD123	GC-SD123	GC-SD123
Sample Number:		D-04062010-01	GC-SD135-04.0-06.0	GC-SD135-06.0-08.0	GC-SD135-08.0-10.0	GC-SD122-00.0-00.7	GC-SD136-00.0-02.0	GC-SD138-00.0-01.7	GC-SD150-00.0-02.0	GC-SD150-02.0-04.0	GC-SD150-04.0-06.0	GC-SD150-06.0-08.2	GC-SD151-00.0-02.0	GC-SD151-02.0-04.0	GC-SD151-04.0-04.8	GC-SD123-00.0-02.0	GC-SD123-02.0-04.0	GC-SD123-04.0-06.0	GC-SD123-06.0-06.8
Sample Depth:		2-4	4-6	6-8	8-10	0-0.7	0-2	0-1.7	0-2	2-4	4-6	6-8.2	0-2	2-4	4-4.8	0-2	2-4	4-6	6-6.8
Sample Date:		4/6/2010	4/6/2010	4/6/2010	4/6/2010	4/7/2010	3/22/2010	4/8/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/12/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010
Sample Type:		FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**																		
Metals																			
Aluminum	mg/kg	**6,510**	**5,270**	**5,230**	**5,900**	**4,820 J**	**9,730 J**	**5,730**	**14,100 J**	**8,720**	**12,200 J**	**9,800 J**	**6,700**	**6,310**	**4,530**	**5,620 J**	**13,700 J**	**13,700 J**	**10,500**
Antimony	mg/kg	9.1 U	8.5 U	9.6 U	10.8 U	11.6 UJ	**1.1 J**	6.8 UJ	**2.1 J**	**2.2 J**	**3.7 J**	**3.9 J**	8.2 U	8.2 U	7.5 U	15.9 UJ	15.8 UJ	15.4 UJ	11.3 UJ
Arsenic	mg/kg	**7.7 J**	**4 J**	**7.8 J**	**14.2 J**	**6.8 J**	**8 J**	**2.6**	**11.5 J**	**11.6**	**25.2 J**	**23.5 J**	**6.8**	**6.2**	**4.9**	**6.5 J**	**11.4 J**	**14.2 J**	**14.7**
Barium	mg/kg	**331**	**336**	**523**	**835**	**409 J**	**153 J**	**26.4**	**200 J**	**412**	**1,090 J**	**537 J**	**211**	**108**	**88.6**	**36.4 J**	**145 J**	**677 J**	**466**
Beryllium	mg/kg	0.75 U	**0.48 J**	**0.45 J**	0.9 U	**0.26 J**	**0.48 J**	**0.44 J**	**0.66 J**	**0.5 J**	**0.81 J**	**0.66 J**	0.68 U	0.68 U	0.62 U	**0.51 J**	**0.77 J**	**0.89 J**	**0.65 J**
Cadmium	mg/kg	**28.4 J**	**23.2**	**40.9**	**32.5**	**23.8 J**	**3.5 J**	0.54 U	**3.8 J**	**16.2**	**48.9 J**	**19.5 J**	**2.6**	**3.9**	**2.8**	1.3 UJ	**4.1 J**	**26 J**	**20.6**
Calcium	mg/kg	**7,130**	**5,660**	**5,840**	**6,810**	**6,760 J**	**10,400 J**	**978 J**	**10,700 J**	**8,220 J**	**8,280 J**	**5,920 J**	**7,830 J**	**9,800 J**	**13,800 J**	1,326 UJ	**7,150 J**	**9,190 J**	**5,390 J**
Chromium	mg/kg	**140**	**157**	**224**	**360**	**125 J**	**70.4 J**	**13.4**	**84.6 J**	**136**	**375 J**	**241 J**	**25.6**	**36.5**	**27.7**	**14.5 J**	**88.6 J**	**261 J**	**218**
Cobalt	mg/kg	**7.8**	7.1 U	**8.3**	9 U	**4.7 J**	**9.1 J**	**6.8**	**11.4 J**	**7.5 J**	**11.5 J**	**10.3 J**	**5.1 J**	**5.5 J**	**5.2 J**	**8.6 J**	**11.1 J**	**10.8 J**	**9.3 J**
Copper	mg/kg	**309**	**397**	**555**	**654**	**333 J**	**208 J**	**10.8**	**234 J**	**335**	**799 J**	**517 J**	**94.3**	**87.6**	**69.9**	**14.7 J**	**201 J**	**562 J**	**423**
Iron	mg/kg	**20,400**	**20,600**	**23,800**	**26,100**	**17,500 J**	**22,800 J**	**15,000**	**30,900 J**	**22,700**	**31,600 J**	**30,900 J**	**15,200**	**15,700**	**19,500**	**28,200 J**	**29,800 J**	**30,700 J**	**26,000**
Lead	mg/kg	**617**	**850**	**1,260**	**1,270**	**628 J**	**282 J**	**7.1 J**	**268 J**	**512**	**865 J**	**633 J**	**213**	**550**	**178**	**8.1 J**	**203 J**	**531 J**	**422 J**
Magnesium	mg/kg	**5,680**	**4,200**	**4,210**	**4,260**	**5,020 J**	**8,880 J**	**2,550**	**10,400 J**	**5,910**	**6,800 J**	**5,240 J**	**4,730**	**3,720**	**3,650**	**3,950 J**	**9,050 J**	**8,270 J**	**5,650**
Manganese	mg/kg	**131**	**86.5**	**98.7**	**126**	**109 J**	**196 J**	**314**	**313 J**	**202**	**288 J**	**247 J**	**179**	**192**	**178**	**272 J**	**315 J**	**300 J**	**257**
Mercury	mg/kg	**1.5 J**	**0.98**	**1.9**	**1.9**	**1.2 J**	**1.7 J**	0.11 U	**1.1 J**	**2.4**	**4.8 J**	**4.1 J**	**0.34**	**0.77**	**0.28**	0.27 UJ	**2.2 J**	**4.3 J**	**4.4**
Nickel	mg/kg	**138 J**	**73.7**	**118**	**118**	**58 J**	**58.7 J**	**13.6**	**39.3 J**	**56**	**160 J**	**70.8 J**	**26.4**	**22.2**	**24.1**	**29.5 J**	**39.5 J**	**90.4 J**	**68.8**
Potassium	mg/kg	**1,530 J**	**1,060 J**	**1,130 J**	**1,380 J**	**1,300 J**	**2,400 J**	**1,290 J**	**3,840 J**	**2,060 J**	**2,870 J**	**2,430 J**	**1,690 J**	**1,540 J**	**1,100 J**	**940 J**	**3,910 J**	**3,710 J**	**2,760 J**
Selenium	mg/kg	5.3 U	**2.6 J**	**2.6 J**	**3.1 J**	6.8 UJ	7.4 UJ	**0.49 J**	**3.1 J**	**2.4 J**	**4.3 J**	**4 J**	4.8 U	4.8 U	4.3 U	9.3 UJ	**1.4 J**	**2.3 J**	**1.6 J**
Silver	mg/kg	**8.1**	**6.7**	**8.7**	**14.7**	**7.7 J**	**4.8 J**	1.1 U	**4.8 J**	**7.8**	**21.7 J**	**15.3 J**	1.4 U	1.4 U	1.2 U	2.7 UJ	**4.8 J**	**14.6 J**	**12.4**
Sodium	mg/kg	**4,130**	**3,140**	**4,460**	**5,280**	**9,270 J**	**9,660 J**	**844**	**13,100 J**	**2,170**	**1,900 J**	**1,380 J**	**4,400**	**2,400**	**1,320**	1,326 UJ	**15,000 J**	**12,600 J**	**6,450**
Thallium	mg/kg	3.8 U	3.5 U	4 U	4.5 U	4.8 UJ	5.3 UJ	2.7 U	**1.5 J**	**0.86 J**	**0.88 J**	**0.87 J**	3.4 U	3.4 U	3.1 U	6.6 UJ	6.6 UJ	6.4 UJ	4.7 U
Vanadium	mg/kg	**29.8**	**24.3**	**40.7**	**86.4**	**32.8 J**	**35.5 J**	**22**	**43.3 J**	**37.5**	**71.8 J**	**71.8 J**	**18.8**	**20.6**	**20.6**	**22.6 J**	**42.6 J**	**53 J**	**52.7**
Zinc	mg/kg	**748**	**748**	**1,190**	**1,370**	**593 J**	**527 J**	**35.4**	**511 J**	**562**	**1,200 J**	**945 J**	**232**	**234**	**237**	**41 J**	**357 J**	**771 J**	**614**
Cyanide, Total	mg/kg	**0.26 J**	3.6 U	**0.37 J**	**0.51 J**	**0.4 J**	5.1 UJ	2.8 U	6.8 UJ	**0.39 J**	**0.63 J**	**0.69 J**	**0.69 J**	**0.23 J**	**0.94 J**	6.8 UJ	**0.59 J**	6.5 UJ	4.7 U

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD139	GC-SD140	GC-SD140	GC-SD140	GC-SD141	GC-SD141	GC-SD141	GC-SD142	GC-SD142	GC-SD143	GC-SD143
Sample Number:		GC-SD139-00.0-02.0	GC-SD139-02.0-04.0	GC-SD139-04.0-06.0	GC-SD139-06.0-08.0	GC-SD139-08.0-10.0	GC-SD139-10.0-12.0	D-04132010-01	GC-SD139-12.0-12.8	GC-SD140-00.0-02.0	GC-SD140-02.0-04.0	GC-SD140-04.0-06.0	GC-SD141-00.0-02.0	GC-SD141-02.0-04.0	GC-SD141-04.0-05.7	GC-SD142-00.0-02.0	GC-SD142-02.0-03.8	GC-SD143-00.0-02.0	GC-SD143-02.0-02.9
Sample Depth:		0-2	2-4	4-6	6-8	8-10	10-12	10-12	12-12.8	0-2	2-4	4-6	0-2	2-4	4-5.7	0-2	2-3.8	0-2	2-2.9
Sample Date:		4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010	4/14/2010	4/14/2010	4/12/2010	4/12/2010	4/12/2010	4/15/2010	4/15/2010	4/14/2010	4/14/2010
Sample Type:		N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**																		
										Metals									
Aluminum	mg/kg	**5,150**	**8,080**	**6,990**	**8,940**	**6,870**	**9,290**	**8,730**	**8,140**	**7,680**	**14,800 J**	**12,800 J**	**11,000 J**	**9,860 J**	**7,170**	**9,150 J**	**8,260**	**12,700 J**	**13,000 J**
Antimony	mg/kg	8.5 U	9.1 UJ	**239 J**	10.1 UJ	8.8 UJ	11.2 UJ	9.9 UJ	8.9 UJ	11.1 U	14.7 UJ	14.3 UJ	12.8 UJ	12.1 UJ	10.1 UJ	11.9 UJ	10.7 U	14.1 UJ	15.7 UJ
Arsenic	mg/kg	**4.8**	**10.6**	**13.3**	**20.4**	**18.7**	**30.4**	**26.4**	**23**	**9.2**	**16.2 J**	**25.6 J**	**10.2 J**	**12.5 J**	**15.3**	**10.8 J**	**11**	**12.2 J**	**13.9 J**
Barium	mg/kg	**53.7**	**286**	**327**	**326**	**369**	**328**	**323**	**239**	**103**	**600 J**	**573 J**	**339 J**	**312 J**	**181**	**172 J**	**155**	**196 J**	**266 J**
Beryllium	mg/kg	0.7 U	**0.97**	0.83 U	0.84 U	0.74 U	0.93 U	0.82 U	0.74 U	0.92 U	1.2 UJ	1.2 UJ	**1.1 J**	**1.1 J**	0.84 U	0.99 UJ	0.89 U	1.2 UJ	1.3 UJ
Cadmium	mg/kg	**1.2**	**13.6**	**16.1**	**27.9**	**11.8**	**9.7**	**10.2**	**5**	**4.2**	**31.1 J**	**28.9 J**	**14.8 J**	**15.7 J**	**8**	**7.6 J**	**8.8**	**8.5 J**	**12.9 J**
Calcium	mg/kg	**5,540 J**	**6,060 J**	**6,060 J**	**3,640 J**	**3,700 J**	**4,110 J**	**3,900 J**	**3,190 J**	**3,610 J**	**7,580 J**	**7,160 J**	**7,660 J**	**5,370 J**	**2,770 J**	**4,650 J**	**4,180 J**	**5,460 J**	**5,640 J**
Chromium	mg/kg	**26**	**165**	**167**	**254**	**149**	**169**	**157**	**81.3**	**71.1**	**292 J**	**332 J**	**147 J**	**192 J**	**127**	**155 J**	**120**	**133 J**	**172 J**
Cobalt	mg/kg	**5.5 J**	**9.8**	**8.5**	**9.1**	**8.7**	**8.3 J**	**9**	**8.2**	**7.9 J**	**12 J**	**11.7 J**	**12 J**	**15.1 J**	**7.2 J**	**10.7 J**	**8.6 J**	11.8 UJ	13.1 UJ
Copper	mg/kg	**78**	**370**	**306 J**	**552**	**315 J**	**424**	**399**	**238 J**	**155**	**527 J**	**601 J**	**360 J**	**568 J**	**266 J**	**289 J**	**240**	**251 J**	**291 J**
Iron	mg/kg	**14,700**	**27,200**	**43,800**	**25,600**	**25,700**	**28,700**	**28,000**	**25,300**	**20,300**	**34,500 J**	**33,900 J**	**30,000 J**	**29,500 J**	**25,300**	**25,100 J**	**29,300**	**29,100 J**	**31,200 J**
Lead	mg/kg	**432**	**558 J**	**446 J**	**508 J**	**442 J**	**520 J**	**502 J**	**403 J**	**191**	**498 J**	**590 J**	**406 J**	**535 J**	**323 J**	**580 J**	**202**	**238 J**	**285 J**
Magnesium	mg/kg	**6,120**	**5,220**	**4,150**	**4,650**	**3,790**	**4,740**	**4,540**	**3,850**	**4,720**	**8,040 J**	**6,640 J**	**6,570 J**	**5,170 J**	**3,570**	**5,190 J**	**4,110**	**6,510 J**	**6,730 J**
Manganese	mg/kg	**138**	**205**	**373**	**201**	**195**	**212**	**224**	**212**	**195**	**359 J**	**318 J**	**280 J**	**284 J**	**207**	**240 J**	**222**	**322 J**	**337 J**
Mercury	mg/kg	**0.27**	**1.7**	**3.1**	**3.6**	**1.6**	**3.3**	**3**	**3.5**	**0.97**	**4.5 J**	**5.3 J**	**2.1 J**	**2.5 J**	**2.1**	**1.6 J**	**1.6**	**2.3 J**	**2.6 J**
Nickel	mg/kg	**22.5**	**71**	**61**	**104**	**41.5**	**42**	**52.2**	**30.9**	**32.5**	**92 J**	**96.7 J**	**77 J**	**135 J**	**36.2**	**64.4 J**	**51.1**	**49.6 J**	**61 J**
Potassium	mg/kg	**1,160 J**	**2,390 J**	**1,850 J**	**2,440 J**	**1,860 J**	**2,500 J**	**2,400 J**	**2,170 J**	**2,310 J**	**4,170 J**	**3,480 J**	**2,930 J**	**2,440 J**	**1,890 J**	**2,590 J**	**2,340 J**	**3,520 J**	**3,630 J**
Selenium	mg/kg	4.9 U	5.3 U	5.9 U	5.9 U	5.2 U	6.5 U	5.8 U	5.2 U	**1.8 J**	**3 J**	**3.7 J**	7.5 UJ	7.1 UJ	5.9 U	**2.2 J**	**2.3 J**	**2.5 J**	**2.6 J**
Silver	mg/kg	1.4 U	**7.1**	**8.2**	**14.2**	**6.9**	**11.5**	**9.4**	**5.1**	**3.7**	**15.4 J**	**17.3 J**	**7.3 J**	**9.8 J**	**7.4**	**6 J**	**5.2**	**6.6 J**	**8.6 J**
Sodium	mg/kg	**3,990**	**7,090**	**6,060**	**7,400**	**4,440**	**6,170**	**5,450**	**3,550**	**8,710**	**12,000 J**	**7,240 J**	**8,590 J**	**3,990 J**	**1,710**	**7,470 J**	**4,680**	**6,520 J**	**8,640 J**
Thallium	mg/kg	3.5 U	**1.6 J**	**2.9 J**	**1.9 J**	**1.5 J**	**1.7 J**	**1.3 J**	**1.6 J**	4.6 U	**1.7 J**	**1.9 J**	5.3 UJ	5 UJ	4.2 U	**0.83 J**	**0.7 J**	5.9 UJ	**0.94 J**
Vanadium	mg/kg	**15.5**	**38.8**	**41.6**	**74.4**	**43.9**	**64.6**	**57**	**42.6**	**26.6**	**57.2 J**	**72.4 J**	**40.3 J**	**47 J**	**38.9**	**33.2 J**	**32.6**	**42.3 J**	**47.4 J**
Zinc	mg/kg	**245**	**691**	**615 J**	**884**	**622 J**	**716**	**861**	**566 J**	**298**	**775 J**	**964 J**	**792 J**	**1,040 J**	**482 J**	**519 J**	**414**	**421 J**	**501 J**
Cyanide, Total	mg/kg	**0.59 J**	**3.3 J**	**1.2 J**	**1.1 J**	**2 J**	**1.7 J**	**2.1 J**	**1.2 J**	4.5 U	**0.57 J**	**0.7 J**	**2 J**	**2.3 J**	**1.7 J**	5.1 UJ	4.2 U	5.7 UJ	6.4 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:	GC-SD144C	GC-SD144C	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-1	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-2	ERT1-3	ERT1-3
Sample Number:	GC-SD144C-00.0-02.0	GC-SD144C-02.0-03.3	ERT1-1-A	ERT1-1-B	ERT1-1-C	ERT1-1-D	ERT1-1-E	ERT1-1-F	ERT1-2-A	ERT1-2-B	ERT1-2-C	ERT1-2-D	ERT1-2-E	ERT1-2-F	ERT1-2-G	ERT1-2-H	ERT1-3-A	ERT1-3-B
Sample Depth:	0-2	2-3.3	0-0.5	0.5-1	1-2	2-3	3-4	4-5.4	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-6.8	0-0.5	0.5-1
Sample Date:	4/13/2010	4/13/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010
Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**																	
Metals																		
Aluminum	mg/kg	6,000	8,610	6,630	6,110 J	5,980 J	5,410 J	4,560 J	4,600 J	5,490	4,030	2,570	3,460	5,180	6,120	2,480	3,570	5,510 J	5,200 J
Antimony	mg/kg	10.3 UJ	9.9 UJ	1.4 J	4.2 J	4.4 J	10.2 J	13.9 J	16.8 J	3.1 J	6.4 J	2 J	34.6	3.3 J	11.8	8.8 J	4.4 J	4.4 J	5.1 J
Arsenic	mg/kg	11.9	22.8	3.9	5.7 J	5.4 J	6.4 J	13.6 J	12.6 J	3.6	2.3	1.8	12.3	4.1	11.7	7.7	2.6	5.3 J	5.2 J
Barium	mg/kg	131	223	88 J	247 J	492 J	1,170 J	975 J	960 J	338 J	148 J	78.3 J	1,080 J	384 J	1,360 J	886 J	316 J	332 J	414 J
Beryllium	mg/kg	1.2	0.83 U	0.82 U	1.1 UJ	1.2 UJ	0.97 UJ	1 UJ	1.2 UJ	0.91 U	0.59 U	0.48 U	0.71 U	0.84 U	0.74 U	0.74 U	0.63 U	1.2 UJ	1.5 UJ
Cadmium	mg/kg	2.6	6.9	1.5	6.5 J	6.1 J	16.3 J	16.9 J	18.1 J	2.5	1.4	1.3	6.5	4.1	13.3	6.8	3.5	5.4 J	5.4 J
Calcium	mg/kg	3,610 J	3,160 J	6,650 J	15,800 J	14,500 J	13,100 J	8,290 J	9,180 J	13,900 J	8,060 J	5,610 J	8,960 J	12,100 J	9,260 J	10,900 J	7,200 J	11,500 J	11,700 J
Chromium	mg/kg	43.6	98.7	42.7 J	65.7 J	123 J	223 J	227 J	207 J	66.4 J	27.8 J	13.6 J	61.1 J	60.2 J	169 J	39.3 J	51.7 J	87.6 J	84.3 J
Cobalt	mg/kg	8.4 J	8.8	8.2 U	10.9 UJ	11.7 UJ	9.7 UJ	10.1 UJ	11.7 UJ	9.1 U	5.9 U	4.8 U	7.1 U	8.4 U	7.4 U	7.4 U	6.3 U	12.1 UJ	15.2 UJ
Copper	mg/kg	162 J	261 J	119 J	456 J	462 J	653 J	1,040 J	909 J	156 J	185 J	126 J	331 J	338 J	606 J	432 J	285 J	448 J	458 J
Iron	mg/kg	19,400	25,300	16,800	21,500 J	22,500 J	31,800 J	23,200 J	24,700 J	21,500	13,500	10,400	20,400	19,700	26,000	17,000	14,900	19,800 J	19,600 J
Lead	mg/kg	625 J	310 J	293	624 J	991 J	1,840 J	1,940 J	1,830 J	705	609	460	2,880	966	2,280	1,740	927	934 J	856 J
Magnesium	mg/kg	3,390	4,150	5,400	6,930 J	6,230 J	6,200 J	4,450 J	4,270 J	6,190	4,160	2,910	3,350	5,010	4,690	3,550	3,730	7,090 J	7,410 J
Manganese	mg/kg	238	240	148	141 J	125 J	135 J	91.4 J	119 J	120	95.7	71.8	107	107	148	93.9	64.6	102 J	105 J
Mercury	mg/kg	1.7	3.3	1.2	2.2 J	6.6 J	6.2 J	17.7 J	6 J	0.82	0.68	3.7	1.2	2.3	2.8	0.91	2.1	7.5 J	3.3 J
Nickel	mg/kg	43.2	35.4	24.5	50 J	57.3 J	132 J	124 J	125 J	27.9	25.3	23.7	35.6	82.5	112	51.2	153	49.7 J	57.9 J
Potassium	mg/kg	1,730 J	2,270 J	1,700 J	1,330 J	1,070 J	930 J	832 J	807 J	1,530 J	892 J	554 J	620 J	932 J	835 J	386 J	797 J	1,400 J	1,400 J
Selenium	mg/kg	6 U	5.8 U	1.2 J	2.5 J	2.5 J	3.1 J	3.8 J	3.2 J	6.3 U	4.2 U	3.4 U	2.5 J	1.3 J	2.4 J	1.8 J	1.1 J	2.4 J	3.6 J
Silver	mg/kg	2.1	5.5	2.9	19.7 J	15 J	25.4 J	37.1 J	42.1 J	1.9	1.6	0.93 J	31.1	3.1	21.9	6	5	8.6 J	9.4 J
Sodium	mg/kg	5,390	3,450	6,790	2,530 J	1,400 J	1,070 J	1,010 UJ	1,170 UJ	6,830	3,420	1,680	711 U	4,460	2,870	735 U	4,810	13,100 J	14,500 J
Thallium	mg/kg	4.3 U	1.4 J	4.1 U	5.5 UJ	5.9 UJ	4.9 UJ	5 UJ	5.8 UJ	4.5 U	3 U	2.4 U	3.6 U	4.2 U	3.7 U	3.7 U	3.1 U	6 UJ	7.6 UJ
Vanadium	mg/kg	22.8	42.9	25.7	32.7 J	36.5 J	56 J	132 J	103 J	29.4	17.5	13.4	20.3	28.7	83.1	16.1	23.9	35.9 J	37.5 J
Zinc	mg/kg	655 J	475 J	348 J	960 J	1,080 J	1,370 J	1,530 J	1,610 J	567 J	303 J	445 J	1,140 J	661 J	1,300 J	1,070 J	611 J	945 J	964 J
Cyanide, Total	mg/kg	1.2 J	0.64 J	0.43 J	6.9 J	9.8 J	1.2 J	10.1 J	0.77 J	7.8	3.6 U	3 U	1.1 J	16.8	2.1 J	11	4.1	8.7 J	11.1 J

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT1-3	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-1	ERT2-2	ERT2-2
Sample Number:		ERT1-3-C	ERT1-3-D	ERT1-3-E	ERT1-3-F	ERT1-3-G	ERT1-3-H	ERT1-3-I	ERT2-1-A	ERT2-1-B	ERT2-1-C	ERT2-1-D	ERT2-1-E	ERT2-1-F	FD-02	ERT2-1-G	ERT2-1-H	ERT2-2-A	ERT2-2-B
Sample Depth:		1-2	2-3	3-4	4-5	5-6	6-7	7-7.7	0-0.5	0.5-1	1-2	2-3	3-4	4-5	4-5	5-6	6-7	0-0.5	0.5-1
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Parameter	**Units**																		
Metals																			
Aluminum	mg/kg	**5,240 J**	**5,960 J**	**6,440 J**	**6,390 J**	**5,940 J**	**5,160 J**	**2,550**	**12,800 J**	**13,900 J**	**13,100 J**	**13,500**	**10,300 J**	**7,110 J**	**6,540 J**	**5,040**	**5,490 J**	**10,600 J**	**12,100 J**
Antimony	mg/kg	**5.9 J**	**9.9 J**	**8.5 J**	**10.5 J**	**11.1 J**	**14.5 J**	**3.4 J**	**0.93 J**	16.8 UJ	**1.7 J**	**2.1 J**	**4.3 J**	**11.2 J**	**12.1 J**	**8.2 J**	**11.4 J**	**1.2 J**	15 U
Arsenic	mg/kg	**4.2 J**	**4 J**	**7.5 J**	**8.3 J**	**8.7 J**	**13.1 J**	**6.7**	**9.4 J**	**11.6 J**	**16.8 J**	**12.3**	**11.3 J**	**9.8 J**	**10.8 J**	**14.5**	**21.9 J**	**8.4 J**	**12.2 J**
Barium	mg/kg	**472 J**	**579 J**	**928 J**	**1,370 J**	**1,090 J**	**1,180 J**	**387**	**58.1 J**	**74.4 J**	**75.6 J**	**83.9**	**305 J**	**847 J**	**783 J**	**704**	**1,040 J**	**65.4 J**	**65.1 J**
Beryllium	mg/kg	1.4 UJ	1.2 UJ	0.93 UJ	1.1 UJ	1.2 UJ	0.85 UJ	0.55 U	1.1 UJ	1.4 UJ	1.3 UJ	0.86 UJ	1.1 UJ	1 UJ	1.1 UJ	0.95 U	0.99 UJ	1.2 UJ	1.2 UJ
Cadmium	mg/kg	**7.6 J**	**7.9 J**	**14.5 J**	**16.6 J**	**13.1 J**	**16.2 J**	**2.4**	1.1 UJ	1.4 UJ	**1.4 J**	**1.5 J**	**5 J**	**13.2 J**	**13.4 J**	**8.7**	**8.7 J**	1.2 UJ	1.2 UJ
Calcium	mg/kg	**11,600 J**	**12,800 J**	**14,200 J**	**14,300 J**	**15,000 J**	**9,520 J**	**4,960**	**7,660 J**	**8,570 J**	**11,200 J**	**10,600**	**11,800 J**	**12,200 J**	**11,600 J**	**8,130**	**8,680 J**	**12,200 J**	**11,400 J**
Chromium	mg/kg	**104 J**	**98.5 J**	**150 J**	**207 J**	**223 J**	**188 J**	**32.7 J**	**51.4 J**	**59.9 J**	**75.8 J**	**75.5**	**98.1 J**	**167 J**	**171 J**	**116 J**	**85.6 J**	**53.2 J**	**65.8 J**
Cobalt	mg/kg	13.6 UJ	12.3 UJ	9.3 UJ	10.6 UJ	12.4 UJ	8.5 UJ	5.5 U	**11.5 J**	14 UJ	12.6 UJ	12.4 UJ	11.3 UJ	10.1 UJ	11.1 UJ	9.5 U	9.9 UJ	12.5 UJ	12.4 UJ
Copper	mg/kg	**500 J**	**560 J**	**622 J**	**857 J**	**763 J**	**861 J**	**171**	**65.8 J**	**78.4 J**	**106 J**	**110**	**273 J**	**766 J**	**588 J**	**451**	**553 J**	**80.2 J**	**111 J**
Iron	mg/kg	**20,900 J**	**23,500 J**	**22,200 J**	**23,700 J**	**28,500 J**	**43,000 J**	**12,400**	**29,200 J**	**33,600 J**	**32,300 J**	**32,900**	**28,600 J**	**25,500 J**	**27,100 J**	**47,000**	**29,000 J**	**26,800 J**	**29,400 J**
Lead	mg/kg	**1,180 J**	**1,550 J**	**1,890 J**	**2,050 J**	**1,910 J**	**1,910 J**	**1,800**	**126 J**	**119 J**	**141 J**	**167**	**571 J**	**1,410 J**	**1,300 J**	**2,510**	**1,600 J**	**222 J**	**137 J**
Magnesium	mg/kg	**6,580 J**	**6,580 J**	**7,670 J**	**7,270 J**	**5,820 J**	**4,800 J**	**2,120**	**7,300 J**	**7,490 J**	**7,230 J**	**7,250**	**6,630 J**	**5,700 J**	**5,480 J**	**4,110**	**4,540 J**	**6,920 J**	**7,380 J**
Manganese	mg/kg	**106 J**	**123 J**	**131 J**	**127 J**	**160 J**	**161 J**	**96**	**453 J**	**699 J**	**664 J**	**682**	**397 J**	**169 J**	**194 J**	**215**	**141 J**	**393 J**	**531 J**
Mercury	mg/kg	**61.6 J**	**12.3 J**	**3.3 J**	**4.4 J**	**5.3 J**	**18.3 J**	**2.4**	**0.83 J**	**0.98 J**	**1.7 J**	**1.5**	**2.4 J**	**5.4 J**	**3.7 J**	**2.9**	**9.7 J**	**0.98 J**	**1.3 J**
Nickel	mg/kg	**65.8 J**	**72.7 J**	**118 J**	**195 J**	**230 J**	**127 J**	**22.4 J**	**30.3 J**	**34.2 J**	**35.4 J**	**38.2**	**57.2 J**	**96.6 J**	**97.4 J**	**77.8**	**48.8 J**	**34.7 J**	**34.2 J**
Potassium	mg/kg	**1,360 J**	**1,260 J**	**1,400 J**	**1,390 J**	**1,190 J**	**1,050 J**	**522 J**	**3,060 J**	**3,180 J**	**3,030 J**	**3,350**	**2,260 J**	**1,250 J**	**1,310 J**	**972**	**1,170 J**	**2,760 J**	**3,070 J**
Selenium	mg/kg	**3.8 J**	**2.3 J**	**3.4 J**	**3.9 J**	**3.1 J**	**4.1 J**	**1.2 J**	7.6 UJ	9.8 UJ	8.8 UJ	10.1 U	7.9 UJ	**2.8 J**	**2.7 J**	**3.1 J**	**4 J**	8.7 UJ	8.7 UJ
Silver	mg/kg	**14.8 J**	**14.4 J**	**24.1 J**	**28.3 J**	**22.1 J**	**23.7 J**	**2.4**	2.2 UJ	2.8 UJ	**0.46 J**	**2 J**	**7.1 J**	**22.1 J**	**26.8 J**	**12.3 J**	**8.4 J**	**0.58 J**	**1.3 J**
Sodium	mg/kg	**13,000 J**	**8,160 J**	**7,440 J**	**6,880 J**	**4,810 J**	**2,440 J**	551 U	**10,500 J**	**4,820 J**	**2,320 J**	**2,010**	**1,480 J**	**1,270 J**	**1,260 J**	**1,110**	**1,780 J**	**10,100 J**	**8,900 J**
Thallium	mg/kg	6.8 UJ	6.2 UJ	4.7 UJ	5.3 UJ	6.2 UJ	4.3 UJ	2.8 U	5.4 UJ	7 UJ	6.3 UJ	7.2 U	5.7 UJ	5.1 UJ	5.6 UJ	4.7 U	5 UJ	6.2 UJ	6.2 UJ
Vanadium	mg/kg	**41.9 J**	**49.1 J**	**61.2 J**	**70.3 J**	**75.1 J**	**127 J**	**18.2**	**30.5 J**	**36.5 J**	**36 J**	**38.5**	**41.6 J**	**56.6 J**	**58 J**	**37.5**	**36.1 J**	**30.6 J**	**35.7 J**
Zinc	mg/kg	**1,050 J**	**1,150 J**	**1,200 J**	**1,500 J**	**1,480 J**	**1,390 J**	**705**	**195 J**	**243 J**	**238 J**	**236**	**594 J**	**1,230 J**	**1,110 J**	**992**	**1,630 J**	**230 J**	**201 J**
Cyanide, Total	mg/kg	**9.9 J**	**14.9 J**	**5.2 J**	**3.3 J**	**1.4 J**	**12.7 J**	**0.34 J**	**0.58 J**	6.7 UJ	**0.88 J**	7.1 U	**4.6 J**	**17.1 J**	**3 J**	**12.3**	**14.7 J**	6.6 UJ	6.5 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-2	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT2-3	ERT3-1
Sample Number:		ERT2-2-C	ERT2-2-D	ERT2-2-E	ERT2-2-F	ERT2-2-G	FD-03	ERT2-2-H	ERT2-2-I	ERT2-3-A	ERT2-3-B	ERT2-3-C	ERT2-3-D	ERT2-3-E	ERT2-3-F	ERT2-3-G	ERT2-3-H	ERT2-3-J	ERT3-1-A
Sample Depth:		1-2	2-3	3-4	4-5	5-6	5-6	6-7	7-8	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	8-9.4	0-0.5
Sample Date:		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/27/2010
Sample Type:		N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**											**Metals**							
Aluminum	mg/kg	**11,600 J**	**10,600 J**	**4,380**	**5,730**	**6,610**	**6,450**	**4,450**	**4,840**	**9,790 J**	**9,440 J**	**11,500 J**	**10,300 J**	**8,050 J**	**6,270 J**	**5,140 J**	**4,870 J**	**3,110**	**5,120**
Antimony	mg/kg	**1.4 J**	**2.8 J**	**16.9 J**	**14.5 J**	**12.8 J**	**15 J**	**16 J**	6.1 UJ	**2.2 J**	**1.8 J**	**3.6 J**	**1.8 J**	**4.2 J**	**8.1 J**	**8.5 J**	**19.6 J**	**12.5 J**	**4.2 J**
Arsenic	mg/kg	**12.3 J**	**11.8 J**	**13**	**12**	**10.8**	**10.3**	**6.9**	**1.4**	**7.2 J**	**6.7 J**	**7.4 J**	**8.1 J**	**8.7 J**	**4.9 J**	**7.3 J**	**12.7 J**	**10.4**	**5.7**
Barium	mg/kg	**80.3 J**	**239 J**	**521**	**953**	**1,340**	**1,060**	**393**	**25.7**	**73.5 J**	**98 J**	**119 J**	**108 J**	**382 J**	**487 J**	**757 J**	**952 J**	**417**	**447 J**
Beryllium	mg/kg	1.1 UJ	1.1 UJ	0.39 UJ	0.42 UJ	0.5 UJ	0.5 UJ	0.4 UJ	0.36 UJ	1.2 UJ	1.1 UJ	0.94 UJ	0.98 UJ	0.86 UJ	1 UJ	0.76 UJ	1.1 UJ	0.74 U	0.74 U
Cadmium	mg/kg	**1.8 J**	**3.6 J**	**6.7 J**	**12.5 J**	**17.2 J**	**15.7 J**	**6.9 J**	0.29 UJ	**1.5 J**	**1.7 J**	**1.9 J**	**2.1 J**	**5.9 J**	**7.1 J**	**11 J**	**14.8 J**	**6.8**	**7.6**
Calcium	mg/kg	**11,400 J**	**11,100 J**	**9,740**	**9,340**	**10,500**	**10,800**	**14,700**	**940**	**13,000 J**	**10,700 J**	**10,400 J**	**9,420 J**	**13,900 J**	**12,300 J**	**10,800 J**	**10,400 J**	**4,960**	**4,660 J**
Chromium	mg/kg	**74.1 J**	**98.5 J**	**81.3**	**171**	**258**	**232**	**73.1**	**14**	**51.1 J**	**59.2 J**	**73.4 J**	**69.8 J**	**92.4 J**	**92.9 J**	**118 J**	**196 J**	**67.7 J**	**107 J**
Cobalt	mg/kg	**11.9 J**	**11.5 J**	6.5 UJ	7.6 UJ	7.8 UJ	8.9 UJ	6.1 UJ	3.6 UJ	11.6 UJ	**11.3 J**	**10.7 J**	**10.1 J**	8.8 U	10.1 UJ	7.6 UJ	10.6 UJ	7.4 U	7.4 U
Copper	mg/kg	**123 J**	**227 J**	**384**	**645**	**784**	**598**	**427**	**12.4**	**129 J**	**124 J**	**178 J**	**222 J**	**474 J**	**471 J**	**557 J**	**729 J**	**365**	**309 J**
Iron	mg/kg	**29,900 J**	**30,900 J**	**23,000**	**26,700**	**25,800**	**25,800**	**19,300**	**7,560**	**27,100 J**	**29,100 J**	**29,600 J**	**28,900 J**	**28,500 J**	**20,500 J**	**20,500 J**	**26,300 J**	**17,100**	**17,600**
Lead	mg/kg	**187 J**	**469 J**	**1,070**	**1,400**	**1,690**	**1,720**	**950**	**22.6**	**262 J**	**290 J**	**294 J**	**325 J**	**758 J**	**1,250 J**	**1,550 J**	**2,000 J**	**930**	**667**
Magnesium	mg/kg	**6,730 J**	**6,710 J**	**5,400**	**4,720**	**5,740**	**5,560**	**4,610**	**2,180**	**7,190 J**	**7,300 J**	**7,320 J**	**6,920 J**	**7,340 J**	**5,440 J**	**4,870 J**	**4,670 J**	**2,480**	**4,410**
Manganese	mg/kg	**427 J**	**357 J**	**142**	**153**	**147**	**177**	**118**	**59.7**	**255 J**	**305 J**	**269 J**	**300 J**	**182 J**	**135 J**	**141 J**	**148 J**	**89.5**	**137**
Mercury	mg/kg	**1.8 J**	**2 J**	**2.1**	**4**	**4.8**	**4.3**	**2.9**	**0.063 J**	**0.73 J**	**2.2 J**	**0.91 J**	**1.4 J**	**1.6 J**	**2.2 J**	**3 J**	**3.3 J**	0.19 U	**3.5**
Nickel	mg/kg	**38.7 J**	**50.7 J**	**52.3**	**101**	**140**	**132**	**69.5**	**11.9**	**30.5 J**	**35.8 J**	**36.3 J**	**39.3 J**	**57.4 J**	**59.4 J**	**93.6 J**	**105 J**	**50.6**	**76.4**
Potassium	mg/kg	**2,750 J**	**2,530 J**	**983**	**1,170**	**1,350**	**1,360**	**929**	**841**	**2,500 J**	**2,460 J**	**2,870 J**	**2,500 J**	**1,670 J**	**970 J**	**969 J**	1,060 UJ	742 U	**1,330 J**
Selenium	mg/kg	8 UJ	**1.7 J**	**2.5 J**	**2.4 J**	**3 J**	**2.7 J**	**1.7 J**	3.6 U	**2.1 J**	**1.6 J**	**1.7 J**	**2 J**	**2.4 J**	**2.6 J**	**2.5 J**	**3.3 J**	**2.3 J**	**1.4 J**
Silver	mg/kg	**2.2 J**	**5.3 J**	**10.1 J**	**17.9 J**	**25.9 J**	**20.6 J**	**11.9 J**	1 UJ	**0.37 J**	**1.1 J**	**1.9 J**	**6.3 J**	**7.2 J**	**16.9 J**	**19.6 J**	**19.5 J**	**18.1**	**8.7**
Sodium	mg/kg	**5,790 J**	**5,160 J**	**2,410**	**3,080**	**2,730**	**2,220**	830 UJ	278 UJ	**9,650 J**	**7,490 J**	**7,150 J**	**3,800 J**	**2,580 J**	**1,580 J**	**1,090 J**	**1,180 J**	742 U	**6,270**
Thallium	mg/kg	5.7 UJ	5.7 UJ	3.7 U	4.4 U	5.3 U	4.9 U	4.3 U	2.5 U	5.8 UJ	5.3 UJ	4.7 UJ	4.9 UJ	4.4 UJ	5 UJ	3.8 UJ	5.3 UJ	3.7 U	3.7 U
Vanadium	mg/kg	**35.2 J**	**43.1 J**	**33.1**	**73.4**	**76**	**61**	**33.4**	**14.4**	**34.5 J**	**34 J**	**38.7 J**	**36.9 J**	**42.1 J**	**43.4 J**	**60.8 J**	**121 J**	**28.7**	**37.9**
Zinc	mg/kg	**266 J**	**473 J**	**954**	**1,200**	**1,430**	**1,280**	**927**	**40.7**	**347 J**	**340 J**	**433 J**	**415 J**	**889 J**	**992 J**	**996 J**	**1,370 J**	**760**	**594 J**
Cyanide, Total	mg/kg	**3.8 J**	6.2 UJ	**1.5 J**	**41.8**	**8.6**	**1.9 J**	**3.4 J**	2.8 U	**3.4 J**	**22.4 J**	**1.7 J**	**0.71 J**	**7 J**	5.3 UJ	5 UJ	**0.84 J**	4.4 U	**1.4 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-1	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-2	ERT3-3	ERT3-3	ERT3-3
Sample Number:		ERT3-1-B	ERT3-1-C	ERT3-1-D	ERT3-1-E	ERT3-1-F	ERT3-1-G	ERT3-1-H	ERT3-2-A	ERT3-2-B	ERT3-2-C	ERT3-2-D	ERT3-2-E	ERT3-2-F	ERT3-2-G	ERT3-2-H	ERT3-3-A	ERT3-3-B	ERT3-3-C
Sample Depth:		0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7.4	0-0.5	0.5-1	1-2
Sample Date:		1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/29/2010	1/29/2010	1/29/2010
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**																		
										Metals									
Aluminum	mg/kg	4,670	3,820	3,590	5,410	4,700	5,950	5,110	9,250	10,400	8,590	3,000	2,290	4,620	4,260	5,350	12,300 J	11,200 J	11,500 J
Antimony	mg/kg	4.5 J	3.7 J	2.6 J	1.7 J	11	13.4	11.5	3.7 J	2.9 J	2.8 J	3.2 J	3.8 J	6.4 J	11.5 J	7.9 J	1.5 J	1.3 J	1.6 J
Arsenic	mg/kg	6.6	5.1	3.5	3.3	14.5	20.5	22.3	6	5.8	6.1	5.1	3.5	8.5	11.2	10.8	7.7 J	8 J	10 J
Barium	mg/kg	464 J	336 J	213 J	118 J	749 J	967 J	1,030 J	77.6	83.6	130	180	124	485	747	826	85.4 J	74.2 J	87.7 J
Beryllium	mg/kg	0.74 U	0.65 U	0.5 U	0.59 U	0.68 U	0.68 U	0.74 U	0.58 UJ	0.74 UJ	0.57 UJ	0.2 UJ	0.38 UJ	0.4 UJ	0.36 UJ	0.5 UJ	0.99 UJ	1.2 UJ	0.94 UJ
Cadmium	mg/kg	8.4	6.2	3.6	1.6	17.6	26.9	19.1	1.6 J	1.8 J	3.7 J	3.2 J	2.5 J	8.9 J	10 J	10 J	2.3 J	2 J	2.4 J
Calcium	mg/kg	5,650 J	4,070 J	5,990 J	6,270 J	6,430 J	7,850 J	11,100 J	6,610	9,680	6,330	3,680	3,230	5,960	6,130	4,270	7,230 J	6,820 J	7,670 J
Chromium	mg/kg	119 J	93.6 J	46.7 J	34.2 J	235 J	325 J	217 J	50.7	59	60.5	47.4	29.8	136	145	147	62.3 J	67 J	76.7 J
Cobalt	mg/kg	7.4 U	6.5 U	11.8	6.2	7.6	9.2	8.5	8.7 UJ	10.1 UJ	8.5	4.3 UJ	2.9 UJ	6.8 UJ	6 UJ	7.8 UJ	12 J	11.6 UJ	11.2 J
Copper	mg/kg	346 J	237 J	133 J	183 J	579 J	794 J	746 J	139	138	150	194	125	1,250	481	399	164 J	145 J	148 J
Iron	mg/kg	18,700	15,700	13,300	14,600	24,700	26,100	49,500	22,900	27,000	22,700	13,100	51,000	20,600	20,300	21,100	27,900 J	27,800 J	30,100 J
Lead	mg/kg	734	556	386	173	1,270	1,820	1,520	230	210	296	362	244	787	1,210	798	241 J	196 J	207 J
Magnesium	mg/kg	4,300	3,090	3,460	6,760	3,970	4,760	4,600	6,490	6,880	5,260	2,610	1,600	4,310	3,510	3,240	9,020 J	8,070 J	8,030 J
Manganese	mg/kg	128	103	105	162	120	130	159	198	259	211	94.2	365	123	113	149	295 J	299 J	365 J
Mercury	mg/kg	2.5	1.7	0.71	0.45	5.9	3.9	3.3	1.2	1.1	1.3	0.32	0.75	2.9	2.5	1.5	1.5 J	1.8 J	2.4 J
Nickel	mg/kg	85.9	61.4	42.9	44.6	122	153	116	30.3	37.6	41.3	45.5	29.5	301	101	92.1	37.7 J	36.3 J	37.9 J
Potassium	mg/kg	1,080 J	820 J	518 J	1,570 J	997 J	1,210 J	1,010 J	2,320	2,500	1,800	597 J	439 J	902	809	1,040	2,940 J	2,870 J	2,880 J
Selenium	mg/kg	2.6 J	1.4 J	0.97 J	4.1 U	3.4 J	4.5 J	5.8	6.7 U	8.8 U	1.3 J	1.1 J	1.6 J	1.8 J	2.1 J	2.2 J	1.7 J	1.9 J	1.8 J
Silver	mg/kg	9.4	5.8	5.7	0.74 J	16	26.7	25.2	0.93 J	2.7 J	2.2 J	2.4 J	1.2 UJ	14.4 J	13.2 J	9.7 J	1.4 J	1.9 J	2.5 J
Sodium	mg/kg	4,470	2,440	1,250	1,010	2,430	3,630	3,080	6,470	4,040	1,420	362 UJ	323 UJ	999	967	665 UJ	10,900 J	10,600 J	9,400 J
Thallium	mg/kg	3.7 U	3.3 U	2.5 U	2.9 U	3.4 U	3.4 U	3.7 U	4.8 U	6.3 U	4.1 U	3.6 U	2.9 U	3.9 U	3.2 U	4.1 U	5 UJ	5.8 UJ	4.7 UJ
Vanadium	mg/kg	37	27.1	14.5	15.3	76.3	115	76.1	32.6	35.5	29.8	20.6	12.7	42.6	76.4	77.9	41.4 J	38.7 J	40.6 J
Zinc	mg/kg	732 J	464 J	260 J	210 J	1,090 J	1,690 J	1,420 J	353	430	416	400	255	762	947	822	398 J	324 J	320 J
Cyanide, Total	mg/kg	1.5 J	5.6	0.26 J	2.9 U	9	11.4	20.7	12.6	3.9 J	4.7 U	0.64 J	0.9 J	0.43 J	2.4 J	0.27 J	1.1 J	0.65 J	5.9 J

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT3-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	ERT4-3	GC-SED-01	GC-SED-01
Sample Number:		ERT3-3-D	ERT3-3-E	FD-06	ERT3-3-F	ERT3-3-G	ERT3-3-H	ERT3-3-I	ERT3-3-J	ERT4-3-A	ERT4-3-B	ERT4-3-C	ERT4-3-D	ERT4-3-E	ERT4-3-F	ERT4-3-G	ERT4-3-H	GC-SED-01(1-2.5)	GC-SED-01(16-17)
Sample Depth:		2-3	3-4	3-4	4-5	5-6	6-7	7-8	8-8.6	0-0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7.3	1-2.5	16-17
Sample Date:		1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	1/29/2010	12/19/2005	12/19/2005
Sample Type:		N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**											**Metals**							
Aluminum	mg/kg	**7,110 J**	**8,360 J**	**9,390 J**	**7,190 J**	**4,130**	**4,010**	**4,040 J**	**5,020 J**	**11,700 J**	**12,700 J**	**10,500 J**	**7,340 J**	**6,350 J**	**6,310**	**4,970**	**4,320**	**8,360**	**3,990**
Antimony	mg/kg	**4.5 J**	**4.2 J**	**6.9 J**	**4.5 J**	**4.4 J**	**5.8 J**	**7 J**	**6.4 J**	**2.2 J**	**1.6 J**	**2.5 J**	**3.8 J**	**5.4 J**	**5.2 J**	**5 J**	**5.3 J**	17.5 UJ	**6.5 J**
Arsenic	mg/kg	**8.8 J**	**11 J**	**11.3 J**	**9.8 J**	**8.2**	**6.3**	**13.6 J**	**17 J**	**8.6 J**	**7.7 J**	**8.7 J**	**9.5 J**	**11.4 J**	**9.9**	**8.2**	**8.1**	**5.8 J**	**14.8**
Barium	mg/kg	**403 J**	**513 J**	**631 J**	**467 J**	**495**	**466**	**607 J**	**927 J**	**77.3 J**	**88.6 J**	**137 J**	**386 J**	**450 J**	**443**	**360**	**343**	**100**	**517**
Beryllium	mg/kg	1.3 UJ	1.1 UJ	1 UJ	1.2 UJ	0.88 U	0.74 U	0.92 UJ	0.81 UJ	1.3 UJ	1.2 UJ	1.2 UJ	1 UJ	0.84 UJ	0.95 U	0.85 U	0.74 U	3 U	3.1 U
Cadmium	mg/kg	**6.7 J**	**11.1 J**	**12.6 J**	**10.9 J**	**6.9**	**8.4**	**8.7 J**	**8 J**	**2.1 J**	**2.6 J**	**3.5 J**	**7 J**	**10.6 J**	**10.2**	**7.6**	**7.3**	4.5 UJ	**8.1 J**
Calcium	mg/kg	**16,700 J**	**15,200 J**	**14,700 J**	**13,300 J**	**5,360**	**5,240**	**6,500 J**	**9,860 J**	**6,960 J**	**6,350 J**	**7,560 J**	**13,300 J**	**10,400 J**	**10,000**	**8,080**	**6,370**	**7,960**	**8,330**
Chromium	mg/kg	**83.5 J**	**150 J**	**189 J**	**195 J**	**114 J**	**123 J**	**99.694 J**	**71.9 J**	**61.9 J**	**74.8 J**	**82.8 J**	**97.5 J**	**157 J**	**173**	**120**	**137**	**60.2**	**86.2**
Cobalt	mg/kg	12.8 UJ	11 UJ	10.4 UJ	11.9 UJ	8.8 U	7.4 U	9.2 UJ	8.1 UJ	12.5 UJ	**11.8 J**	11.6 UJ	10.1 UJ	**8.4 J**	9.5 U	8.5 U	7.4 U	**9.1 J**	**7.6 J**
Copper	mg/kg	**430 J**	**562 J**	**638 J**	**598 J**	**350**	**371**	**358 J**	**458 J**	**171 J**	**170 J**	**227 J**	**500 J**	**542 J**	**550**	**497**	**361**	**188**	**519**
Iron	mg/kg	**26,600 J**	**27,200 J**	**30,000 J**	**25,000 J**	**22,400**	**18,500**	**20,300 J**	**26,900 J**	**26,600 J**	**28,300 J**	**27,700 J**	**27,700 J**	**28,900 J**	**28,000**	**27,800**	**24,600**	**21,600**	**21,800**
Lead	mg/kg	**809 J**	**1,090 J**	**1,100 J**	**1,000 J**	**649**	**780**	**724 J**	**1,190 J**	**232 J**	**259 J**	**396 J**	**802 J**	**1,060 J**	**1,080**	**972**	**1,160**	**232**	**1,620**
Magnesium	mg/kg	**8,900 J**	**8,730 J**	**8,610 J**	**6,820 J**	**3,470**	**3,250**	**2,920 J**	**3,530 J**	**8,890 J**	**8,930 J**	**8,270 J**	**8,580 J**	**6,530 J**	**6,290**	**4,790**	**4,690**	**6,110**	**3,470**
Manganese	mg/kg	**179 J**	**182 J**	**206 J**	**177 J**	**176**	**152**	**151 J**	**199 J**	**293 J**	**320 J**	**274 J**	**157 J**	**138 J**	**134**	**128**	**126**	**206**	**104**
Mercury	mg/kg	**3 J**	**4.2 J**	**4.2 J**	**3.7 J**	**2.3**	**1.2**	**0.11 J**	**4.3 J**	**2 J**	**3.2 J**	**2.4 J**	**4 J**	**3.1 J**	**2.5**	**2.7**	**1.8**	**1.1**	**4**
Nickel	mg/kg	**64.5 J**	**96 J**	**114 J**	**96.2 J**	**87.8**	**100**	**62.8 J**	**41.3 J**	**36.3 J**	**38.9 J**	**46.3 J**	**71.8 J**	**122 J**	**116**	**96.9**	**80.9**	**41.6**	**64.3**
Potassium	mg/kg	**1,410 J**	**1,470 J**	**1,680 J**	**1,060 J**	**704 J**	**710 J**	**684 J**	**925 J**	**2,950 J**	**3,140 J**	**2,660 J**	**1,730 J**	**1,370 J**	**1,290**	**976**	**744**	**1,900**	**455 J**
Selenium	mg/kg	**2.7 J**	**2.9 J**	**3.5 J**	**3 J**	**2.3 J**	**2.3 J**	**3.3 J**	**4.5 J**	**2.4 J**	**2.4 J**	**1.9 J**	**2.8 J**	**2.7 J**	**2.9 J**	**2.5 J**	**2.1 J**	23.9 U	24.8 U
Silver	mg/kg	**9.3 J**	**11.8 J**	**12.8 J**	**11.9 J**	**6.1**	**7.3**	**9.7 J**	**13.5 J**	**1.2 J**	**2.8 J**	**4.9 J**	**8.1 J**	**9.1 J**	**10.7**	**6.6**	**6**	**3.9 J**	**29.7**
Sodium	mg/kg	**5,340 J**	**2,370 J**	**2,660 J**	**1,370 J**	884 U	735 U	916 UJ	813 UJ	**9,910 J**	**10,700 J**	**11,000 J**	**10,600 J**	**6,730 J**	**5,890**	**3,650**	**2,360**	**7,070 J**	**298 J**
Thallium	mg/kg	6.4 UJ	5.5 UJ	5.2 UJ	6 UJ	4.4 U	3.7 U	4.6 UJ	4.1 UJ	6.2 UJ	5.9 UJ	5.8 UJ	5 UJ	4.2 UJ	4.8 U	4.3 U	3.7 U	29.9 UJ	31 UJ
Vanadium	mg/kg	**43.9 J**	**50.9 J**	**58.1 J**	**48.2 J**	**34.7**	**38.6**	**34.5 J**	**33.7 J**	**40.4 J**	**43.4 J**	**42 J**	**44.5 J**	**47.9 J**	**50.3**	**34.2**	**31.3**	**33.4**	**35.5**
Zinc	mg/kg	**1,180 J**	**1,300 J**	**1,380 J**	**1,560 J**	**750**	**689**	**1,340 J**	**1,570 J**	**406 J**	**406 J**	**509 J**	**1,040 J**	**1,090 J**	**1,110 J**	**956 J**	**752 J**	**463 J**	**1,550 J**
Cyanide, Total	mg/kg	**7.2 J**	**1.7 J**	**0.74 J**	**1.6 J**	4.6 U	**1.1 J**	**2.9 J**	4.7 UJ	**1.6 J**	5.9 UJ	**1.2 J**	**3.1 J**	**3.3 J**	**4.9**	**2.6 J**	3.8 U	0.91 UJ	0.92 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-02	GC-SED-02	GC-SED-03	GC-SED-03	GC-SED-04	GC-SED-04	GC-SED-05	GC-SED-07	GC-SED-07	GC-SED-08	GC-SED-09B	GC-SED-10	GC-SED-100	GC-SED-101	GC-SED-102	GC-SED-102	GC-SED-103	GC-SED-103
Sample Number:		GC-SED-02(1-2)	GC-SED-02(9.6-10.6)	GC-SED-03(0-1.5)	GC-SED-03(7.5-9.3)	GC-SED-04(0-2)	GC-SED-04(10.3-11.3)	GC-SED-05(0-2)	GC-SED-07(0-2.5)	GC-SED-07(7.5-8.5)	GC-SED-08(1-2)	GC-SED-09(6-7)	GC-SED-10(0-1.5)	GC-SED-100(5-6)	GC-SED-101(4-7)	GC-SED-102(2-4)	GC-SED-102(6.5-8.5)	GC-SED-103(1-2)	GC-SED-103(8.1-9.1)
Sample Depth:		1-2	9.6-10.6	0-1.5	7.5-9.3	0-2	10.3-11.3	0-2	0-2.5	7.5-8.5	1-2	6-7	0-1.5	5-6	4-7	2-4	6.5-8.5	1-2	8.1-9.1
Sample Date:		12/19/2005	12/19/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/23/2005	12/19/2005	12/19/2005	12/23/2005	12/23/2005	12/21/2005	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006	1/28/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**3,140**	**4,800**	**6,350**	**6,120**	**15,200**	**4,580**	**15,900**	**7,810**	**2,170**	**9,530**	**7,510**	**15,600**	**3,910**	**4,750**	**6,110**	**2,890**	**12,600**	**429**
Antimony	mg/kg	15.9 UJ	**3.9 J**	16.8 UJ	**3.9 J**	37 UJ	**5.4 J**	33.7 UJ	26.9 UJ	**2.7 J**	**8.4 J**	23.8 UJ	41.8 UJ	**12.6 J**	**2 J**	18.7 UJ	16.6 UJ	32.4 UJ	11.8 UJ
Arsenic	mg/kg	10.9 U	**5.4 J**	**6 J**	**7.2 J**	**14.3 J**	**20.4 J**	**15.1 J**	**14.3 J**	**13**	**12.6 J**	**12.1 J**	**11.7 J**	**16.4 J**	**12.2 J**	**30.9 J**	**35.6 J**	**10.2 J**	8.1 UJ
Barium	mg/kg	**285**	**629**	**149**	**737**	**132 J**	**984 J**	**99.8 J**	**986**	**740**	**759 J**	**986 J**	**149 J**	**431 J**	**529 J**	**442**	**291**	**195 J**	**11 J**
Beryllium	mg/kg	2.7 U	4.2 U	2.9 U	5.3 U	6.3 U	3.3 U	5.8 U	4.6 U	2.6 U	7 U	4.1 U	7.1 U	2.4 U	3.4 U	3.2 U	2.8 U	5.5 U	2 U
Cadmium	mg/kg	**1.4 J**	**8.5 J**	4.3 UJ	**6.7 J**	9.5 U	**6.5**	8.6 U	**20.8 J**	**3.5 J**	**13.9**	**19.6**	10.7 U	**11**	**14.8**	**6.6 J**	**1.9 J**	**3.6 J**	3 U
Calcium	mg/kg	**11,000**	**15,600**	**7,780**	**20,000**	**9,260**	**7,060**	**9,430**	**12,200**	**6,380**	**14,200**	**13,500**	**10,000**	**8,610**	**24,300**	**5,960**	**3,140 J**	**21,900**	**3,500**
Chromium	mg/kg	**22.5**	**95**	**39.7**	**99.6**	**93.5**	**61.8**	**83.8**	**302**	**65.2**	**202**	**290**	**82.1**	**144**	**213**	**109**	**24.4**	**96.4**	**7**
Cobalt	mg/kg	**4 J**	**6.4 J**	**7.5 J**	**9.6 J**	**11.4 J**	**5.9 J**	**13 J**	**8.9 J**	**6.4 J**	**9 J**	**7.2 J**	**12.3 J**	**5.4 J**	**6.1 J**	**9.4 J**	**4.5 J**	**11 J**	2 UJ
Copper	mg/kg	**138**	**436**	**315**	**481**	**159**	**379**	**148**	**862**	**246**	**756**	**699**	**201**	**735**	**460**	**460**	**198**	**249**	**25**
Iron	mg/kg	**11,400**	**18,300**	**17,900**	**25,100**	**36,500**	**24,900**	**37,300**	**27,400**	**32,100**	**32,600**	**32,000**	**35,300**	**16,400**	**38,000**	**55,300**	**34,600 J**	**27,200**	**1,310**
Lead	mg/kg	**450**	**1,840**	**375**	**1,560**	**249**	**1,400**	**193**	**1,690**	**1,720**	**1,520**	**1,420**	**278**	**701**	**847**	**829 J**	**559 J**	**359**	**19.7**
Magnesium	mg/kg	**3,640**	**5,810**	**5,300**	**6,800**	**9,070**	**2,810**	**9,450**	**7,610**	**2,340**	**7,030**	**5,910**	**9,050**	**3,730 J**	**14,900 J**	**4,490**	**1,750 J**	**14,800 J**	**793 J**
Manganese	mg/kg	**72.3**	**124**	**160**	**176**	**523**	**133**	**541**	**173**	**149**	**262**	**186**	**461**	**91.9 J**	**185 J**	**175**	**127**	**297 J**	**13 J**
Mercury	mg/kg	**0.84**	**1.8**	**0.45**	**3**	**0.63 J**	**4.9 J**	**0.3 J**	**4.2**	**0.84**	**3.9 J**	**0.43 J**	**1.5**	**0.03**	**1.9**	**0.82**	**0.07**	**1.8**	**0.43**
Nickel	mg/kg	**23.3**	**61.6**	**113**	**110**	**43.5**	**30**	**46.9**	**186**	**36.1**	**124**	**140**	**45.6**	**87.9 J**	**158 J**	**64.3**	**16.4**	**46.5 J**	**3.1 J**
Potassium	mg/kg	**681 J**	**815 J**	**1,310 J**	**1,030 J**	**2,970 J**	**626 J**	**3,020 J**	**1,430 J**	**416 J**	**1,010 J**	**888 J**	**2,280 J**	**719 J**	**990 J**	**1,560 J**	**688 J**	**2,590 J**	**84.9 J**
Selenium	mg/kg	21.8 U	33.8 U	23 U	42.3 U	50.6 U	26.6 U	46.1 U	36.9 U	21.1 U	55.8 U	32.6 U	57.2 U	18.8 UJ	26.9 UJ	25.6 U	22.8 U	44.4 UJ	16.2 UJ
Silver	mg/kg	**4.7**	**16.3**	4.3 U	**14**	**10.8**	**7.9**	8.6 U	**23.7**	**6.9**	**18.1**	**26.5**	10.7 U	**10.5**	**10.5**	**8.1 J**	4.3 U	**8.5**	3 U
Sodium	mg/kg	**3,480 J**	**4,410 J**	**4,620 J**	**3,980 J**	**11,400 J**	**656 J**	**11,500 J**	**9,200 J**	**640 J**	**1,660 J**	**1,040 J**	**1,900 J**	**3,820**	**5,650**	**8,720**	**2,950**	**10,700**	95 U
Thallium	mg/kg	27.2 UJ	42.3 UJ	28.7 UJ	52.9 UJ	63.2 UJ	33.3 UJ	57.6 UJ	46.1 UJ	26.4 UJ	69.7 UJ	40.7 UJ	71.4 UJ	23.5 U	33.6 U	31.9 UJ	28.5 U	55.4 U	20.2 U
Vanadium	mg/kg	**18.4**	**46.8**	**23.9**	**51.5**	**45.1**	**31**	**43.3**	**85**	**18.8**	**75.6**	**65.7**	**49.8**	**44.9**	**59.8**	**49.1**	**15.8**	**48.4**	**2.6 J**
Zinc	mg/kg	**480 J**	**1,120 J**	**344 J**	**1,400 J**	**336**	**1,770**	**298**	**1,760 J**	**1,780 J**	**1,620**	**1,400**	**508**	**2,440 J**	**923 J**	**1,070**	**487**	**637 J**	**24.7 J**
Cyanide, Total	mg/kg	0.71 UJ	**0.18 J**	0.78 UJ	**1.35 J**	1.42 UJ	0.82 UJ	1.39 UJ	**0.3 J**	0.68 UJ	1.39 UJ	1.07 UJ	1.46 UJ	**1.66 J**	**0.18 J**	**4.51 J**	**8.82 J**	1.24 UJ	0.54 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:	GC-SED-105	GC-SED-11	GC-SED-11	GC-SED-12	GC-SED-12	GC-SED-13B	GC-SED-14	GC-SED-14	GC-SED-15	GC-SED-16	GC-SED-17	GC-SED-18	GC-SED-19C	GC-SED-19C	GC-SED-20	GC-SED-20	GC-SED-21B	GC-SED-21B
Sample Number:	GC-SED-105(2.5-4)	GC-SED-11(1-3)	GC-SED-11(11-13)	GC-SED-12(0-2)	GC-SED-12(13-14)	GC-SED-13B(0-2)	GC-SED-14(0-1.5)	GC-SED-14(5.5-6.5)	GC-SED-15(0-0.75)	GC-SED-16(0-2)	GC-SED-17(0-2)	GC-SED-18(0-1)	GC-SED-19C(1.5-2)	GC-SED-19C(5.8-6.8)	GC-SED-20(0-1.5)	GC-SED-20(4-5)	GC-SED-21B(1.5-3)	GC-SED-21B(7-8)
Sample Depth:	2.5-4	1-3	11-13	0-2	13-14	0-2	0-1.5	5.5-6.5	0-0.75	0-2	0-2	0-1	1.5-2	5.8-6.8	0-1.5	4-5	1.5-3	7-8
Sample Date:	1/22/2006	1/5/2006	1/5/2006	12/21/2005	12/21/2005	1/7/2006	1/7/2006	1/7/2006	1/7/2006	1/8/2006	1/8/2006	1/7/2006	1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/9/2006	1/9/2006
Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter / **Units**								**Metals**										
Aluminum mg/kg	**3,790**	**11,900 J**	**8,580 J**	**12,000**	**2,940**	**25,000 J**	**12,700 J**	**5,950 J**	**13,500 J**	**24,700 J**	**11,400 J**	**12,900 J**	**8,950 J**	**5,590 J**	**12,600**	**13,300 J**	**10,300**	**3,810 J**
Antimony mg/kg	16.4 UJ	26.3 UJ	25.9 UJ	31.6 UJ	15.5 UJ	35.2 UJ	36 UJ	26.2 UJ	30.2 UJ	38 UJ	30.6 UJ	38.1 UJ	26.4 UJ	18.9 UJ	29.5 UJ	43 UJ	36.4 UJ	**2.7 J**
Arsenic mg/kg	**14.3**	**12.8 J**	**31.1 J**	**10.8 J**	**7.4 J**	**17.2 J**	**11 J**	**14.9 J**	**10.7 J**	**21.7 J**	**9 J**	**10.2 J**	**11.5 J**	**13.9 J**	**10.4 J**	**17 J**	**16.3 J**	**8.8 J**
Barium mg/kg	**114 J**	**234 J**	**442 J**	**229 J**	**145 J**	**154 J**	**216 J**	**443 J**	**175 J**	**293 J**	**76.7 J**	**138 J**	**577 J**	**473 J**	**106 J**	**714 J**	**650 J**	**212 J**
Beryllium mg/kg	2.8 U	4.5 U	4.4 U	5.4 U	2.7 U	6 U	6.2 U	4.5 U	5.2 U	6.5 U	5.2 U	6.5 U	4.5 U	3.2 U	5.1 U	7.3 UJ	6.2 U	2.7 U
Cadmium mg/kg	4.2 U	**4 J**	**12.4 J**	**4.3 J**	4 U	9 UJ	**3.9 J**	**2.8 J**	7.7 UJ	**6 J**	7.9 UJ	9.8 UJ	**8.6 J**	**12.3 J**	7.6 U	**11.3 J**	**10.9**	**7.8 J**
Calcium mg/kg	**3,900 J**	**12,200 J**	**12,800 J**	**9,050**	**2,600**	**12,200 J**	**9,890 J**	**9,040 J**	**9,290 J**	**17,900 J**	**7,840 J**	**9,090 J**	**6,260 J**	**7,280 J**	**7,320 J**	**13,900 J**	**15,900**	**10,300 J**
Chromium mg/kg	**36.5**	**93.4 J**	**207 J**	**96.6**	**20.7**	**137 J**	**90.6 J**	**46.7 J**	**106 J**	**187 J**	**74.8 J**	**84.6 J**	**89.4 J**	**188 J**	**78.1**	**162 J**	**173**	**62.6 J**
Cobalt mg/kg	**4.8 J**	**11.1 J**	**9.9 J**	**10.4 J**	**4.1 J**	**21.2 J**	**12.8 J**	**7 J**	**12.3 J**	**23.9 J**	**11.4 J**	**12.2 J**	**9.1 J**	**8.8 J**	**9.8 J**	**14.6 J**	**12.2 J**	**5.7 J**
Copper mg/kg	**82.1**	**292 J**	**739 J**	**320**	**111**	**291 J**	**315 J**	**470 J**	**198 J**	**562 J**	**160 J**	**223 J**	**396 J**	**1,070 J**	**254**	**629 J**	**626**	**1,190 J**
Iron mg/kg	**13,300**	**32,200 J**	**31,400 J**	**31,900**	**15,400**	**49,400 J**	**34,200 J**	**21,900 J**	**31,900 J**	**55,400 J**	**27,100 J**	**29,300 J**	**28,100 J**	**38,300 J**	**26,800**	**54,100 J**	**40,700**	**35,700 J**
Lead mg/kg	**308**	**507 J**	**1,290 J**	**528**	**1,200**	**357 J**	**703 J**	**1,350 J**	**812 J**	**927 J**	**215 J**	**339 J**	**690 J**	**1,230 J**	**268**	**1,640 J**	**1,180**	**844 J**
Magnesium mg/kg	**2,250 J**	**8,590 J**	**7,600 J**	**8,670**	**2,530**	**16,900 J**	**9,350 J**	**4,050 J**	**9,280 J**	**16,800 J**	**8,080 J**	**9,920 J**	**6,510 J**	**4,500 J**	**8,470**	**10,600 J**	**11,100**	**4,010 J**
Manganese mg/kg	**74.5**	**436 J**	**389 J**	**313**	**204**	**608 J**	**473 J**	**95.9 J**	**387 J**	**591 J**	**319 J**	**294 J**	**212 J**	**139 J**	**301**	**337 J**	**214**	**216 J**
Mercury mg/kg	**0.56**	**1.4 J**	**0.9 J**	**1.4**	**0.94**	**1.2 J**	**1.1 J**	**11.7 J**	**0.3 J**	**1.5 J**	**1.3**	**1.2 J**	**1.2 J**	**1.4**	**1.1**	**2.4 J**	**2**	**2.7**
Nickel mg/kg	**16.6**	**53.6 J**	**137 J**	**55.8**	**27.7**	**64 J**	**52.1 J**	**29.6 J**	**43.5 J**	**102 J**	**34.9 J**	**45.5 J**	**55 J**	**147 J**	**37.3 J**	**106 J**	**124**	**48.4 J**
Potassium mg/kg	**568 J**	**1,770 J**	**969 J**	**2,240 J**	**562 J**	**5,870 J**	**2,670 J**	**1,020 J**	**2,990 J**	**4,560 J**	**2,510 J**	**2,870 J**	**1,710 J**	**704 J**	**2,680 J**	**2,380 J**	**2,140 J**	**701 J**
Selenium mg/kg	22.5 U	36 U	35.4 U	43.2 U	21.2 U	48.1 U	49.3 U	35.8 U	41.3 U	51.9 U	41.9 U	52.1 U	36.1 U	**2.6 J**	40.4 U	58.7 UJ	49.8 U	21.7 U
Silver mg/kg	4.2 U	**8.6 J**	**17.4 J**	8.1 U	4 U	**8.2 J**	**5.8 J**	**8.1 J**	**7.2 J**	**14.1 J**	**4.8 J**	**6.2 J**	**7.2 J**	**15 J**	7.6 UJ	**12.1 J**	**12.6 J**	4.1 UJ
Sodium mg/kg	1,680 UJ	**3,420 J**	**1,790 J**	**8,950**	**245 J**	**22,200 J**	**10,600 J**	**4,950 J**	**12,100 J**	**6,810 J**	**8,050 J**	**14,100 J**	**5,990 J**	**607 J**	**11,100 J**	**5,970 J**	**11,200 J**	**1,380 J**
Thallium mg/kg	28.1 UJ	45 UJ	44.3 UJ	54 UJ	26.6 UJ	60.2 UJ	61.6 UJ	44.7 UJ	51.6 UJ	64.9 UJ	52.4 UJ	65.1 UJ	45.2 UJ	32.3 UJ	50.5 UJ	73.4 UJ	62.3 UJ	27.1 UJ
Vanadium mg/kg	**16.5 J**	**50.2 J**	**67.9 J**	**48.5**	**11.5 J**	**79.1 J**	**48.1 J**	**23.4 J**	**49 J**	**101 J**	**43.1 J**	**47.9 J**	**39.1 J**	**48.5 J**	**43.8 J**	**61.8 J**	**62.2**	**23.1 J**
Zinc mg/kg	**298**	**704 J**	**1,630 J**	**730**	**340**	**671 J**	**670 J**	**1,350 J**	**601 J**	**1,230 J**	**405 J**	**595 J**	**846 J**	**1,460 J**	**602 J**	**1,800 J**	**1,630**	**1,350 J**
Cyanide, Total mg/kg	**0.18 J**	1.43 UJ	1.11 UJ	1.33 UJ	0.53 UJ	1.48 UJ	1.28 UJ	1.01 UJ	1.37 UJ	1.38 UJ	1.51 UR	1.55 UJ	0.93 UR	0.85 UR	1.32 UR	1.7 UR	**0.17 J**	0.66 UR

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-22B	GC-SED-22B	GC-SED-23	GC-SED-24B	GC-SED-25B	GC-SED-26	GC-SED-27	GC-SED-27	GC-SED-28	GC-SED-28	GC-SED-29	GC-SED-30	GC-SED-31	GC-SED-31	GC-SED-32	GC-SED-32	GC-SED-33	GC-SED-34B
Sample Number:		GC-SED-22B(0-1)	GC-SED-22B(7-8)	GC-SED-23(0-2)	GC-SED-24(3-4.5)	GC-SED-25(1-4)	GC-SED-26(1-2)	GC-SED-27(0.5-1)	GC-SED-27(4.9-5.4)	GC-SED-28(1.5-2.5)	GC-SED-28(4.9-5.8)	GC-SED-29(2.3-4.6)	GC-SED-30(3.5-5.5)	GC-SED-31(2.5-4.5)	GC-SED-31(11.5-12.5)	GC-SED-32(0.5-1.5)	GC-SED-32(5.9-6.9)	GC-SED-33(1.5-3)	GC-SED-34B(2-3)
Sample Depth:		0-1	7-8	0-2	3-5	1-4	1-2	0.5-1	4.9-5.4	1.5-2.5	4.9-5.8	2.3-4.6	3.5-5.5	2.5-4.5	11.5-12.5	0.5-1.5	5.9-6.9	1.5-3	2-3
Sample Date:		1/9/2006	1/9/2006	1/10/2006	1/10/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/12/2006	1/16/2006	1/16/2006	1/16/2006	1/16/2006	1/17/2006	1/13/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**15,800 J**	**7,490 J**	**15,200**	**13,300**	**10,600**	**8,220**	**15,700**	**4,720**	**8,380**	**1,110**	**8,250**	**5,250**	**7,050 J**	**4,600 J**	**10,100 J**	**5,410 J**	**7,170 J**	**7,440**
Antimony	mg/kg	32.7 UJ	34.1 UJ	40.2 UJ	32 UJ	26.8 UJ	20.5 UJ	35.7 UJ	**8.2 J**	22.6 UJ	10.5 UJ	36 UJ	17 UJ	**3.4 J**	25.4 UJ	32 UJ	**8.3 J**	25 UJ	22.9 UJ
Arsenic	mg/kg	**11.5 J**	**15.8 J**	**11.2 J**	**11.8 J**	**8 J**	**9.4 J**	**10.3 J**	**17.4 J**	**9.9 J**	**2.4 J**	**7.8 J**	**8.6 J**	**13 J**	**67 J**	**7.7 J**	**17 J**	**11.3 J**	**15.2 J**
Barium	mg/kg	**120 J**	**489 J**	**120 J**	**217 J**	**141 J**	**204 J**	**137 J**	**451 J**	**236 J**	**36 J**	**186 J**	**274 J**	**365 J**	**639 J**	**139 J**	**643 J**	**235 J**	**343 J**
Beryllium	mg/kg	5.6 U	5.8 U	6.9 U	5.5 U	4.6 U	3.5 U	6.1 U	4.5 U	3.9 U	1.8 U	6.2 U	2.9 U	3.5 U	4.3 U	5.5 U	4.1 U	4.3 U	3.9 U
Cadmium	mg/kg	**3.1 J**	**11.5 J**	10.3 U	**4.4 J**	**2.5 J**	**4.7 J**	9.1 U	**19.6**	**3.9 J**	**1 J**	**3.1 J**	**4.8**	**11.6**	**3.9 J**	**3.7 J**	**17.9**	**6.6**	**12**
Calcium	mg/kg	**7,860 J**	**26,200 J**	**8,080 J**	**8,630 J**	**8,020 J**	**17,700 J**	**9,340 J**	**7,730 J**	**11,400 J**	**116,000 J**	**11,900 J**	**15,400 J**	**13,900 J**	**6,670 J**	**7,750 J**	**9,360 J**	**14,700 J**	**18,400 J**
Chromium	mg/kg	**110 J**	**191 J**	**85.2**	**111**	**81.3**	**96.1**	**89.9**	**214**	**78.8**	**19.5**	**74.2**	**78.1**	**230 J**	**44.3 J**	**78.7 J**	**285 J**	**132 J**	**241**
Cobalt	mg/kg	**13.6 J**	**10 J**	**12.4 J**	**12.1 J**	**9.9 J**	**10.4 J**	**14.3 J**	**7.4 J**	**8.6 J**	**2.5 J**	**8.9 J**	**6 J**	**9.4 J**	**9.1 J**	**8.8 J**	**7.7 J**	**8.2 J**	**13 J**
Copper	mg/kg	**229 J**	**564 J**	**218**	**305**	**204**	**288**	**205**	**821**	**255**	**104**	**243**	**220**	**514 J**	**393 J**	**255 J**	**693 J**	**305 J**	**558**
Iron	mg/kg	**33,000 J**	**55,600 J**	**32,700**	**32,300**	**24,200**	**22,900**	**32,100**	**24,600**	**22,500**	**15,000**	**22,300**	**15,600**	**27,400 J**	**22,200 J**	**24,500 J**	**25,700 J**	**18,800 J**	**33,100**
Lead	mg/kg	**325 J**	**964 J**	**307**	**495**	**352**	**560**	**339**	**1,090**	**552**	**86.4**	**924**	**666**	**1,190 J**	**1,260 J**	**430 J**	**1,770 J**	**706 J**	**1,130**
Magnesium	mg/kg	**10,000 J**	**7,710 J**	**9,510**	**9,240**	**7,990**	**8,990**	**10,700**	**4,090**	**8,140**	**78,600**	**7,970**	**6,280**	**7,770 J**	**2,890 J**	**8,400 J**	**4,580 J**	**7,970 J**	**9,910**
Manganese	mg/kg	**392 J**	**294 J**	**329**	**312**	**251**	**190**	**352**	**136**	**184**	**134**	**190**	**133**	**160 J**	**208 J**	**230 J**	**123 J**	**156 J**	**178**
Mercury	mg/kg	**1.5**	**2.7**	**1.7**	**1.4**	**1.7**	**0.91**	**1.2**	**3.3**	**1.4 J**	**0.44**	**3.2**	**1.8**	**2.1 J**	**8.5 J**	**2.2 J**	**7.6 J**	**1.9 J**	**1.9**
Nickel	mg/kg	**51.3 J**	**119 J**	**42.3 J**	**57.6 J**	**44.9 J**	**69 J**	**50.7 J**	**184 J**	**45.8 J**	**23.8 J**	**40.5 J**	**49.4 J**	**178 J**	**28 J**	**42.6 J**	**227 J**	**88.8 J**	**152 J**
Potassium	mg/kg	**3,010 J**	**1,090 J**	**2,820 J**	**2,560 J**	**2,140 J**	**2,160 J**	**3,070 J**	**690 J**	**1,810 J**	**288 J**	**1,770 J**	**1,300 J**	**1,250 J**	**748 J**	**2,020 J**	**753 J**	**1,870 J**	**1,420 J**
Selenium	mg/kg	44.7 U	46.6 U	55 U	43.8 U	36.7 U	28.1 U	48.8 U	36 U	31 U	14.3 U	49.2 U	23.2 U	28.1 U	**5 J**	43.7 U	32.8 U	34.2 U	31.3 U
Silver	mg/kg	8.4 UJ	**11.1 J**	10.3 UJ	**9.1 J**	**6.9 J**	**5.2 J**	**6.1 J**	**12.3 J**	**8.7 J**	**0.83 J**	**8.2 J**	**3.3 J**	**8.9 J**	**7.5 J**	**7.9 J**	**22.7 J**	**5.7 J**	**12.1 J**
Sodium	mg/kg	**7,860 J**	**1,330 J**	**7,760 J**	**8,980 J**	**8,280 J**	**7,610**	**10,600**	**2,940**	**8,810**	**1,220**	**10,600**	**6,120**	**5,940 J**	**2,010 J**	**10,900 J**	**2,540 J**	**5,950 J**	**8,680**
Thallium	mg/kg	55.8 UJ	58.3 UJ	68.7 UJ	54.7 UJ	45.9 U	35.1 U	61 U	45 U	38.7 U	17.9 U	61.5 U	29 U	35.1 UJ	43.5 UJ	54.6 UJ	40.9 UJ	42.8 UJ	39.1 U
Vanadium	mg/kg	**56.5 J**	**51.5 J**	**48.7 J**	**49.7 J**	**39.1 J**	**38.4 J**	**52.5 J**	**58.2 J**	**36.8 J**	**5.9 J**	**35.1 J**	**25.6 J**	**49.3 J**	**26.2 J**	**43.1 J**	**129 J**	**38 J**	**53.2 J**
Zinc	mg/kg	**547 J**	**1,160 J**	**533 J**	**698 J**	**487 J**	**727 J**	**511 J**	**4,350 J**	**710 J**	**198 J**	**605 J**	**603 J**	**1,200 J**	**1,530 J**	**632 J**	**2,110 J**	**770 J**	**1,160 J**
Cyanide, Total	mg/kg	1.31 UR	1.24 UR	1.47 UR	1.16 UR	1.09 UR	0.92 UJ	1.15 UJ	0.9 UJ	1.08 UJ	0.51 UJ	1.24 UJ	0.77 UJ	0.88 UJ	**0.29 J**	1.32 UJ	1.15 UJ	1.07 UJ	**0.22 J**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-34B	GC-SED-35	GC-SED-35	GC-SED-36	GC-SED-36	GC-SED-37B	GC-SED-38	GC-SED-39	GC-SED-39	GC-SED-40	GC-SED-41	GC-SED-43	GC-SED-43	GC-SED-44	GC-SED-44	GC-SED-45C	GC-SED-46C	GC-SED-46C
Sample Number:		GC-SED-34B(5.8-6.8)	GC-SED-35(0-4.5)	GC-SED-35(8.8-10.8)	GC-SED-36(2.5-4.5)	GC-SED-36(8-9)	GC-SED-37B(7-8)	GC-SED-38(5.1-6.1)	GC-SED-39(1-2)	GC-SED-39(4.5-5.5)	GC-SED-40(2.5-3.5)	GC-SED-41(0-4.5)	GC-SED-43(2-3)	GC-SED-43(7.3-8.3)	GC-SED-44(0.5-2.5)	GC-SED-44(5.6-6.1)	GC-SED-45C(1-1.5)	GC-SED-46C(1.5-2.5)	GC-SED-46C(5-5.5)
Sample Depth:		5.8-6.8	0-4.5	8.8-10.8	2.5-4.5	8-9	7-8	5.1-6.1	1-2	4.5-5.5	2.5-3.5	0-4.5	2-3	7.3-8.3	0.5-2.5	5.6-6.1	1-1.5	1.5-2.5	5-5.5
Sample Date:		1/13/2006	1/13/2006	1/13/2006	1/16/2006	1/16/2006	12/22/2005	12/22/2005	1/8/2006	1/8/2006	1/17/2006	1/17/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006	1/23/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**10,600**	**12,000**	**3,520**	**3,670 J**	**7,250 J**	**5,600**	**4,780**	**6,770 J**	**2,080 J**	**1,070 J**	**206 J**	**2,910**	**4,670**	**2,830**	**6,390**	**4,410**	**5,980**	**5,320**
Antimony	mg/kg	28.9 UJ	39.4 UJ	17.4 UJ	37.4 UJ	**2.6 J**	**2.8 J**	**11.5 J**	14.7 UJ	15.2 UJ	12.8 UJ	10.1 UJ	11.8 UJ	15.7 UJ	14.9 UJ	**6.7 J**	16.5 UJ	19 UJ	**3.3 J**
Arsenic	mg/kg	**21.3 J**	**19.5 J**	**36.6 J**	**7.6 J**	**37.1 J**	**29.1**	**17.2**	**11.1 J**	**16.3 J**	**9.9 J**	**3 J**	**8 J**	**27.3**	**8.3 J**	**34.3**	**23.3**	**14.3**	**36.6**
Barium	mg/kg	**555 J**	**124 J**	**102 J**	**59.5 J**	**690 J**	**934 J**	**478 J**	**219 J**	**109 J**	**14.2 J**	**3 J**	**161 J**	**338 J**	**63.7 J**	**440 J**	**171**	**655 J**	**582 J**
Beryllium	mg/kg	4.9 U	6.7 U	3 U	6.4 U	3.4 U	3.8 U	3.2 U	2.5 U	2.6 U	2.2 U	1.7 U	2 U	2.7 U	2.5 U	3.5 U	2.8 U	3.3 U	3 U
Cadmium	mg/kg	**33.6**	10.1 U	4.5 U	**4.1 J**	**5.1 J**	**6.3**	**14.2**	**4.3 J**	**1.8 J**	3.3 U	2.6 U	**5.5**	**4 J**	**1.6 J**	**7.5**	**2.1 J**	**43.2**	**6.2**
Calcium	mg/kg	**19,500 J**	**8,200 J**	**2,740 J**	**15,400 J**	**11,600 J**	**7,530**	**8,810**	**19,900 J**	**3,000 J**	**72,100 J**	**180,000 J**	**51,400 J**	**4,780 J**	**24,800 J**	**7,640 J**	**8,510 J**	**12,300 J**	**8,430 J**
Chromium	mg/kg	**484**	**84.2**	**39.6**	**60.5 J**	**63.9 J**	**89.2**	**215**	**767 J**	**26.3 J**	**11.2 J**	**3.7 J**	**93.2**	**55.8**	**47.1**	**110**	**45.3**	**373**	**79.5**
Cobalt	mg/kg	**11.7 J**	**11.7 J**	**5.5 J**	**3.9 J**	**8 J**	**6.4 J**	**7.2 J**	**10 J**	**4.1 J**	**2.8 J**	**2.5 J**	**3.9 J**	**6.4 J**	**2.9 J**	**7.2 J**	**4.8 J**	**7.8 J**	**7.2 J**
Copper	mg/kg	**903**	**236**	**67.8**	**158 J**	**501 J**	**399**	**454**	**243 J**	**95.2 J**	**18.6 J**	**9.3 J**	**205**	**230**	**86.3**	**393**	**285**	**671**	**422**
Iron	mg/kg	**34,400**	**27,000**	**13,600**	**9,420 J**	**30,400 J**	**29,100**	**24,800**	**17,800 J**	**25,900 J**	**9,480 J**	**4,470 J**	**19,000**	**17,700**	**10,400**	**22,900**	**16,300**	**22,900**	**24,500**
Lead	mg/kg	**1,550**	**352**	**207**	**334 J**	**1,160 J**	**1,250**	**901**	**404 J**	**316 J**	**25.4 J**	**5.2 J**	**587 J**	**564 J**	**133 J**	**784 J**	**581 J**	**1,100 J**	**960 J**
Magnesium	mg/kg	**12,300**	**9,200**	**3,030**	**7,710 J**	**4,660 J**	**3,530**	**4,210**	**22,600 J**	**1,250 J**	**43,900 J**	**129,000 J**	**30,000 J**	**2,690 J**	**10,400 J**	**4,160 J**	**5,130 J**	**7,120 J**	**3,580 J**
Manganese	mg/kg	**201**	**298**	**108**	**107 J**	**226 J**	**131**	**97.4**	**169 J**	**124 J**	**88.6 J**	**151 J**	**143 J**	**103 J**	**109 J**	**189 J**	**98.7 J**	**124 J**	**140 J**
Mercury	mg/kg	**5.4**	**1.7**	**2.3**	**2.1 J**	**1.6 J**	**4.6 J**	**3.7 J**	**0.25**	0.06 U	0.03 UJ	0.03 UJ	**1.4 J**	**2.3 J**	**0.08 J**	**4.2 J**	**6.6**	**3 J**	**1.4 J**
Nickel	mg/kg	**295 J**	**41.4 J**	**29.1 J**	**40.2 J**	**38.9 J**	**33.4**	**135**	**118 J**	**23.3 J**	**10.9 J**	**3.8 J**	**55**	**31.6**	**28.7**	**55.4**	**26.2**	**254**	**39.1**
Potassium	mg/kg	**1,650 J**	**2,440 J**	**479 J**	**639 J**	**1,330 J**	**960 J**	**823 J**	**1,570 J**	**302 J**	**194 J**	**123 J**	**587 J**	**729 J**	**414 J**	**1,020 J**	**816 J**	**1,070 J**	**864 J**
Selenium	mg/kg	39.6 U	53.9 U	23.8 U	51.2 U	**4.7 J**	30.3 U	25.8 U	20.1 U	20.8 U	17.5 U	13.8 U	16.1 U	**4.1 J**	20.4 U	**4 J**	**3.1 J**	26 U	**6.3 J**
Silver	mg/kg	**19.9 J**	**8.7 J**	**1.4 J**	**3.1 J**	**6.8 J**	**10.2**	**11**	**4.1 J**	**3 J**	3.3 U	2.6 U	**4.4 J**	**5.7 J**	3.8 U	**11.3**	4.2 U	**15.7**	**7.9 J**
Sodium	mg/kg	**9,470**	**11,300**	**1,290 J**	**4,690 J**	**4,730 J**	**4,700 J**	**4,220 J**	**5,950 J**	**1,750 J**	**627 J**	**361 J**	**3,020 J**	3,440 UJ	2,230 UJ	**5,340 J**	**3,790 J**	**6,830 J**	2,930 UJ
Thallium	mg/kg	49.5 U	67.4 U	29.8 U	63.9 UJ	34.3 UJ	37.8 UJ	32.3 UJ	25.2 UJ	26 UJ	21.9 UJ	17.2 UJ	20.2 U	26.9 U	25.5 U	35 U	28.2 UJ	32.5 U	29.6 U
Vanadium	mg/kg	**99.9 J**	**47.7 J**	**16.9 J**	**17.1 J**	**36.7 J**	**41.8**	**81.2**	**40.1 J**	**14.6 J**	**7.6 J**	**7.3 J**	**30.2**	**28.3**	**14.1**	**47.3**	**19.2**	**277**	**37.6**
Zinc	mg/kg	**1,930 J**	**557 J**	**175 J**	**468 J**	**1,650 J**	**1,430**	**1,210**	**1,020 J**	**339 J**	**45.7 J**	**5.5 J**	**433**	**637**	**188**	**981**	**613**	**1,260**	**1,330**
Cyanide, Total	mg/kg	1.12 UJ	1.47 UJ	0.69 UJ	1.27 UJ	0.87 UJ	**0.11 J**	**1.12 J**	0.69 UR	0.69 UR	**0.07 J**	2.5 UJ	0.57 U	**0.11 J**	0.59 U	**2.19**	**0.47 J**	**0.25 J**	**2.77**

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-47	GC-SED-48	GC-SED-48	GC-SED-49	GC-SED-49	GC-SED-50B	GC-SED-51	GC-SED-51	GC-SED-52	GC-SED-53	GC-SED-54B	GC-SED-54B	GC-SED-55	GC-SED-55	GC-SED-57	GC-SED-58C	GC-SED-59	GC-SED-60B
Sample Number:		GC-SED-47(1.5-2.5)	GC-SED-48(0.5-1.5)	GC-SED-48(5-5.8)	GC-SED-49(2.5-3.5)	GC-SED-49(5.4-5.9)	GC-SED-50(2-5)	GC-SED-51(0-1.5)	GC-SED-51(6.7-7.2)	GC-SED-52(3-6)	GC-SED-53(0.5-1.5)	GC-SED-54B(0-2)	GC-SED-54B(4.5-5.7)	GC-SED-55(1.5-2.5)	GC-SED-55(10-11)	GC-SED-57(7-9)	GC-SED-58C(0-5)	GC-SED-59(0.5-1)	GC-SED-60B(0-2.5)
Sample Depth:		1.5-2.5	0.5-1.5	5-5.8	2.5-3.5	5.4-5.9	2-5	0-1.5	6.7-7.2	3-6	0.5-1.5	0-2	4.5-5.7	1.5-2.5	10-11	7-9	0-5	0.5-1	0-2.5
Sample Date:		1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/24/2006	1/26/2006	1/26/2006	1/26/2006	1/20/2006	1/20/2006	1/20/2006	1/20/2006	1/24/2006	1/24/2006	1/26/2006	1/27/2006	1/22/2006	1/21/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**4,660**	**4,620**	**7,590**	**4,500**	**9,410**	**4,100**	**9,540**	**1,940**	**916**	**2,680**	**9,260**	**3,670**	**9,750**	**6,020**	**15,100**	**3,550**	**2,000**	**3,030**
Antimony	mg/kg	15.9 UJ	18.8 UJ	20.7 UJ	18.6 UJ	17.7 UJ	24.3 UJ	30.4 UJ	17.3 UJ	16.8 UJ	19.1 UJ	29.8 UJ	19.6 UJ	22.8 UJ	17.7 UJ	26 UJ	16.6 UJ	16.4 UJ	16.3 UJ
Arsenic	mg/kg	**15.4**	**12.9**	**30.9**	**28.1**	**26**	**39.2 J**	**18.2 J**	**31.1 J**	**13.6**	**6.7 J**	**15.1 J**	**23.2**	**15.1 J**	**9.6 J**	**5.1 J**	**12.3 J**	**6.4 J**	**10.6 J**
Barium	mg/kg	**444**	**243**	**316**	**359**	**115**	**486**	**368**	**385**	**53.2 J**	**90 J**	**496 J**	**127 J**	**649**	**332**	**64.7 J**	**165 J**	**119 J**	**211 J**
Beryllium	mg/kg	2.7 U	3.2 U	3.5 U	3.2 U	3 U	4.2 U	5.2 U	3 U	2.9 U	3.3 U	5.1 U	3.4 U	3.9 U	3 U	4.4 U	2.8 U	2.8 U	2.8 U
Cadmium	mg/kg	**16.6**	**8.9**	**2.1 J**	**5.9**	4.5 U	**3.3 J**	**11.7**	**4 J**	**1.9 J**	**3.1 J**	**10**	5 U	**8.3**	**14.6**	6.7 U	4.2 U	**2.8 J**	**8.7**
Calcium	mg/kg	**7,500 J**	**11,300 J**	**8,210 J**	**5,720 J**	**4,490 J**	**5,930**	**20,500**	**9,200**	**2,230 J**	**10,000 J**	**16,100 J**	2,020 UJ	**17,000 J**	**26,900 J**	**46,900**	**6,810**	**8,960 J**	**20,700 J**
Chromium	mg/kg	**233**	**157**	**45.2**	**82.5**	**48.3**	**30.7**	**206**	**20**	**59.3 J**	**51.7**	**138**	**19**	**106**	**167**	**23.1**	**41.6**	**33.2**	**93.9**
Cobalt	mg/kg	**6.5 J**	**5.4 J**	**7.6 J**	**7.5 J**	**8.5 J**	**5.7 J**	**8.3 J**	**5.1 J**	**2.9 J**	**3.6 J**	**7.6 J**	**4.3 J**	**8.6 J**	**5.2 J**	**14.3 J**	**4.4 J**	2.8 U	**4.6 J**
Copper	mg/kg	**443**	**290**	**456**	**426**	**174**	**354**	**390**	**204**	**279**	**111**	**333**	**153**	**318**	**300**	**36.2**	**97.5**	**73.9**	**259**
Iron	mg/kg	**20,500**	**23,400**	**25,300**	**29,000**	**34,800**	**34,900**	**26,000**	**110,000**	**70,900**	**12,000**	**24,400**	**17,700**	**26,100**	**18,400 J**	**34,100**	**12,100**	**10,000**	**46,200**
Lead	mg/kg	**961 J**	**557 J**	**894 J**	**848 J**	**323 J**	**1,360**	**666**	**1,270**	**147**	**182**	**553**	**364**	**536 J**	**490 J**	**42.1**	**231**	**323 J**	**465**
Magnesium	mg/kg	**4,160 J**	**5,960 J**	**4,360 J**	**3,380 J**	**4,670 J**	**2,870**	**12,600**	**2,150**	**1,460 J**	**4,280 J**	**11,400 J**	**1,850 J**	**11,500 J**	**8,830 J**	**25,900**	**2,140 J**	**2,000 J**	**3,900 J**
Manganese	mg/kg	**122 J**	**131 J**	**134 J**	**125 J**	**264 J**	**154**	**216**	**664**	**212**	**78.7**	**205**	**79.9**	**212 J**	**165 J**	**920**	**133 J**	**85.3 J**	**253**
Mercury	mg/kg	**0.12**	**1.3**	**4.1**	**1.1**	**0.98**	**0.21**	**1.7**	**0.02**	**0.68**	**0.7**	**1.3**	**0.08**	**1.8 J**	**1.6**	**2.2**	**2.8**	**0.12 J**	**0.24**
Nickel	mg/kg	**204**	**79.7**	**30.5**	**36.8**	**27.2**	**27.8**	**98.4**	**23.6**	**77.4**	**28.2**	**63.6**	**15.3**	**51.1**	**82.5**	**29.3**	**15 J**	**20.2**	**53.5**
Potassium	mg/kg	**845 J**	**855 J**	**1,280 J**	**802 J**	**1,520 J**	**771 J**	**1,630 J**	**338 J**	**463 J**	**425 J**	**1,990 J**	**565 J**	**1,990 J**	**963 J**	**1,380 J**	**493 J**	281 U	**658 J**
Selenium	mg/kg	21.8 U	25.7 U	**4.5 J**	**4.7 J**	**4.2 J**	**6.4 J**	41.6 UJ	23.7 UJ	**3 J**	26.2 U	40.7 U	26.9 U	31.2 U	24.2 U	35.5 UJ	22.6 UJ	22.4 U	22.3 U
Silver	mg/kg	**10.1 J**	**5.6**	**5.1 J**	**6.8 J**	4.5 U	**3.7 J**	**8.1**	**1.8 J**	**2 J**	**2.3 J**	**7.1 J**	**1.3 J**	**7.4**	**6.8**	6.7 U	**0.67 J**	4.2 U	4.2 U
Sodium	mg/kg	**4,110 J**	**4,150 J**	**4,950 J**	**3,800 J**	**2,780 J**	**3,990 J**	**8,220 J**	**1,690 J**	3,400 UJ	2,420 UJ	**11,000 J**	2,300 UJ	**10,200 J**	**5,080 J**	**305 J**	**556 J**	550 UJ	3,080 UJ
Thallium	mg/kg	27.2 UJ	32.2 UJ	35.4 UJ	31.9 UJ	30.2 UJ	41.5 UJ	52 UJ	29.7 UJ	28.7 U	32.7 U	50.9 U	33.6 U	39 UJ	30.3 UJ	44.4 UJ	28.3 U	28.1 UJ	27.9 UJ
Vanadium	mg/kg	**55.1**	**35.1**	**27.9**	**35.8**	**29.5**	**22.2**	**50**	**16.5**	**36 J**	**20.1 J**	**39.8 J**	**14.1 J**	**41.1**	**31.8**	**20.8 J**	**16.1**	**12.3 J**	**22.2 J**
Zinc	mg/kg	**979**	**698**	**966**	**1,100**	**322**	**1,130**	**912**	**2,130**	**154 J**	**253**	**797**	**322**	**871**	**638**	**271**	**382 J**	**290**	**652**
Cyanide, Total	mg/kg	**1.25**	**1.45**	0.93 U	**10.8**	**0.47 J**	**3.27**	1.02 U	0.7 U	**48.2**	0.7 UJ	1.2 UJ	0.67 UJ	1.15 U	**0.35 J**	1.1 U	0.63 UJ	**0.06 J**	0.66 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-62C	GC-SED-62C	GC-SED-63	GC-SED-64D	GC-SED-65	GC-SED-67B	GC-SED-67B	GC-SED-68	GC-SED-68	GC-SED-69C	GC-SED-69C	GC-SED-71C	GC-SED-71C	GC-SED-72B	GC-SED-72B	GC-SED-73E	GC-SED-74	GC-SED-75C
Sample Number:		GC-SED-62C(0-2)	GC-SED-62C(3-4)	GC-SED-63(3-3.5)	GC-SED-64D(2-4)	GC-SED-65(0.5-1.25)	GC-SED-67(0-1)	GC-SED-67(7-8)	GC-SED-68(0-1)	GC-SED-68(2.2-3.1)	GC-SED-69(0-1)	GC-SED-69(6-7)	GC-SED-71C(1.5-2.5)	GC-SED-71C(2.5-4.0)	GC-SED-72(0-2)	GC-SED-72(5.5-7)	GC-SED-73E(1.0-2.5)	GC-SED-74(5.3-6.3)	GC-SED-75C(0-0.7)
Sample Depth:		0-2	3-4	3-3.5	2-4	0.5-1.25	0-1	7-8	0-1	2.2-3.1	0-1	6-7	1.5-2.5	2.5-4	0-2	5.5-7	1-2.5	5.3-6.3	0-0.7
Sample Date:		1/21/2006	1/21/2006	12/20/2005	1/11/2006	1/22/2006	12/17/2005	12/17/2005	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/29/2006	1/29/2006	12/18/2005	12/18/2005	1/29/2006	1/29/2006	1/25/2006
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**11,200**	**8,750**	**3,150**	**2,520**	**5,990**	**3,900**	**4,980**	**4,730**	**5,010**	**11,800**	**7,530**	**2,790**	**3,710**	**575**	**7,960**	**14,100**	**11,000**	**12,000**
Antimony	mg/kg	30.3 UJ	19.7 UJ	19.2 UJ	17.5 UJ	12.9 UJ	15.2 UJ	**1.9 J**	19.3 UJ	**2.7 J**	36.6 UJ	17.2 UJ	**20,200 J**	11.4 UJ	12.9 UJ	**2.6 J**	34.6 UJ	30.1 UJ	40.1 UJ
Arsenic	mg/kg	**12.1 J**	**46.8**	**4.8 J**	**25.8 J**	**7.5 J**	**3.1 J**	**22.4 J**	**5.3 J**	**20.5 J**	**11 J**	**6.9 J**	**11.3 J**	**3.6 J**	**4.1 J**	**11.4 J**	**12.2 J**	**23.7 J**	**10.7 J**
Barium	mg/kg	**186 J**	**163 J**	**167**	**225 J**	**54.9 J**	**436**	**502**	**214**	**355**	**173**	**29.6 J**	**113**	**14.9 J**	**6.5 J**	**823**	**193**	**1,100**	**107 J**
Beryllium	mg/kg	5.2 U	3.4 U	3.3 U	3 U	**0.66 J**	2.6 U	3 U	3.3 U	3 U	6.2 U	2.9 U	2.8 U	1.9 U	2.2 U	4.2 U	5.9 U	5.1 U	6.9 U
Cadmium	mg/kg	**3.2 J**	5 U	**10.8 J**	4.5 U	3.3 U	**6.5**	**13**	**14.2**	**8.7**	**3.9 J**	4.4 U	**5.3**	2.9 U	3.3 U	**57.6**	**6.7 J**	**46.2**	10.3 U
Calcium	mg/kg	**8,780 J**	**4,240 J**	**6,590**	**3,630 J**	364 UJ	**6,370**	**6,540**	**7,360**	**7,160**	**8,890**	**773 J**	**3,860**	**660 J**	**166,000**	**10,000**	**11,400**	**8,520**	**9,240 J**
Chromium	mg/kg	**81.9**	**86.3**	**79**	**29.7**	**10.6**	**40.4 J**	**113**	**89.6**	**75.7**	**77.6**	**14.3**	**49.2**	**8.4**	**3.6**	**387**	**98.2**	**355**	**77.1**
Cobalt	mg/kg	**10 J**	**7.5 J**	**3.2 J**	**3 J**	**5.7 J**	**5.6 J**	**6.3 J**	**6.7 J**	**7.4 J**	**9.5 J**	**5.5 J**	**3.3 J**	**3.1 J**	**1.6 J**	**7.8 J**	**11.7 J**	**11.2 J**	**10.7 J**
Copper	mg/kg	**254**	**235**	**151**	**138**	**11.5**	**94.6**	**357**	**242**	**292**	**232**	**22.3**	**104**	**10.3**	**10.4**	**650**	**266**	**755**	**181**
Iron	mg/kg	**26,500**	**24,500**	**15,200**	**17,800**	**21,400**	**9,420**	**20,300**	**14,500**	**24,800**	**27,200**	**17,600**	**12,700**	**9,850**	**4,470**	**24,900**	**33,500**	**34,700**	**28,800**
Lead	mg/kg	**405**	**655**	**317**	**542**	**6.5 J**	**700**	**995**	**414**	**788**	**318**	**28.9**	**274 J**	**13.4 J**	**10.7**	**986**	**335 J**	**1,070 J**	**226 J**
Magnesium	mg/kg	**9,160 J**	**4,410 J**	**4,220**	**1,030**	**2,260 J**	**3,710**	**3,620**	**4,910**	**3,750**	**9,300**	**2,580**	**2,890**	**1,800**	**117,000**	**6,550**	**11,800**	**7,710**	**9,710 J**
Manganese	mg/kg	**264**	**194**	**85.8**	**110**	**97.1 J**	**97.5 J**	**111 J**	**90.7 J**	**165 J**	**248 J**	**98.1 J**	**151**	**113**	**132 J**	**149 J**	**316**	**257**	**301 J**
Mercury	mg/kg	**1.6**	**3.2**	**0.72**	**2.4**	**0.02 J**	**0.36**	**0.18**	**0.6**	**0.65**	**1.4**	**0.25**	**0.17**	**0.04**	**0.02**	**2.3**	**2.3**	**6.9**	**0.95**
Nickel	mg/kg	**43.3**	**24.4**	**40.5**	**10.4 J**	**15.2**	**33.8 J**	**55.6**	**53.3**	**46.7**	**41.5**	**13.1**	**25**	**8.5**	**3.9 J**	**153**	**48.2**	**136**	**34.4**
Potassium	mg/kg	**2,250 J**	**1,320 J**	**763 J**	**372 J**	**657 J**	**537 J**	**839 J**	**789 J**	**791 J**	**2,380 J**	**772 J**	**578 J**	**668 J**	**308 J**	**1,620 J**	**3,490 J**	**2,550 J**	**2,620 J**
Selenium	mg/kg	41.4 U	26.9 U	26.3 U	24 U	17.6 U	20.7 U	24 UJ	26.4 UJ	24.1 UJ	50 UJ	23.5 UJ	22.3 U	15.6 U	17.6 UJ	33.2 UJ	47.3 U	41.2 U	54.8 U
Silver	mg/kg	7.8 U	5 U	4.9 U	4.5 UJ	3.3 U	**2 J**	**13**	**4 J**	**9.7**	**5.1 J**	**1.6 J**	4.2 U	2.9 U	3.3 U	**18.1**	8.9 U	**21.2**	**4.2 J**
Sodium	mg/kg	**10,800 J**	2,130 UJ	**2,470 J**	**281 J**	978 UJ	**1,590**	**3,360**	**3,450**	**3,820**	**11,300**	**1,440 J**	**3,520**	**1,920**	**699 J**	**7,770**	**17,700**	**13,500**	**13,200 J**
Thallium	mg/kg	51.8 UJ	33.6 UJ	32.8 UJ	29.9 UJ	22 UJ	25.9 U	30 U	33 U	30.1 U	62.5 U	29.4 U	27.9 U	19.4 U	22 U	41.6 U	59.1 U	51.5 U	68.6 UJ
Vanadium	mg/kg	**38.8 J**	**26.1 J**	**20.9**	**11.3 J**	**18.3**	**12 J**	**44.8**	**21.2**	**40.8**	**36.7**	**20.3**	**21.5**	**9.3 J**	**5.1 J**	**51.3**	**44.1**	**100**	**38**
Zinc	mg/kg	**537**	**396**	**422 J**	**559 J**	**56.2**	**918 J**	**1,090**	**720**	**963**	**600**	**59.2**	**243**	**23.4**	**17.4 J**	**1,490**	**702**	**1,410**	**447**
Cyanide, Total	mg/kg	1.31 UJ	**1.32 J**	0.67 UJ	**0.09 J**	**0.79**	0.7 U	0.8 UJ	0.71 UJ	**0.08 J**	1.27 UJ	**0.31 J**	0.63 UJ	**0.12 J**	**0.26 J**	0.88 UJ	1.45 UJ	1.24 UJ	1.44 U

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-75C	GC-SED-76C	GC-SED-77	GC-SED-77	GC-SED-78B	GC-SED-78B	GC-SED-79	GC-SED-80	GC-SED-81	GC-SED-81	GC-SED-82	GC-SED-82	GC-SED-83	GC-SED-83	GC-SED-84	GC-SED-85B	GC-SED-85B	GC-SED-86
Sample Number:		GC-SED-75C(0.7-1.5)	GC-SED-76C(2.5-3.4)	GC-SED-77(0-3)	GC-SED-77(14.5-15.4)	GC-SED-78B(0-1)	GC-SED-78B(2.5-5)	GC-SED-79(2.5-3.5)	GC-SED-80(0-2)	GC-SED-81(8-11)	GC-SED-81(13-13.5)	GC-SED-82(0-2)	GC-SED-82(12-12.8)	GC-SED-83(0-2)	GC-SED-83(11-11.9)	GC-SED-84(1-2)	GC-SED-85B(0-1)	GC-SED-85B(8.5-9.3)	GC-SED-86(0-1)
Sample Depth:		0.7-1.5	2.5-3.4	0-3	14.5-15.4	0-1	2.5-5	2.5-3.5	0-2	8-11	13-13.5	0-2	12-12.8	0-2	11-11.9	1-2	0-1	8.5-9.3	0-1
Sample Date:		1/25/2006	1/25/2006	1/30/2006	1/30/2006	1/25/2006	1/25/2006	12/17/2005	12/17/2005	12/18/2005	12/18/2005	1/30/2006	1/30/2006	1/30/2006	1/30/2006	12/15/2005	12/16/2005	12/16/2005	12/15/2005
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**																	
Aluminum	mg/kg	**1,850**	**7,260**	**14,900 J**	**6,960 J**	**11,000**	**10,700 J**	**6,730**	**12,400**	**8,750**	**2,770**	**7,300 J**	**4,950 J**	**11,900 J**	**11,300 J**	**12,200**	**6,840**	**7,260**	**7,780 J**
Antimony	mg/kg	11.2 UJ	32.9 UJ	35.2 UJ	16.8 UJ	26.6 UJ	30.3 UJ	16.1 UJ	31.5 UJ	17.1 UJ	11.9 UJ	21.7 UJ	12 UJ	26.7 UJ	21.3 UJ	30.2 UJ	**5.6 J**	**3.8 J**	22.1 UJ
Arsenic	mg/kg	**1.2 J**	**11.5 J**	**17.1 J**	**13 J**	**11.1 J**	**15.8 J**	**18.4 J**	**22.4 J**	**16.1 J**	**4 J**	**27.3 J**	**10.8 J**	**15.5 J**	**24.5 J**	**9.9 J**	**8.7 J**	**23.1 J**	**15.4 J**
Barium	mg/kg	**7.7 J**	**59.6 J**	**296 J**	**123 J**	**85.1 J**	**218 J**	**202**	**540**	**118**	**11.2 J**	**174 J**	**59.6 J**	**260 J**	**346 J**	**348**	**267**	**688**	**492**
Beryllium	mg/kg	1.9 U	5.6 U	6 U	2.9 U	4.5 U	5.2 U	**1.1 J**	**2.6 J**	2.9 U	2 U	3.7 U	2.1 U	**2.5 J**	3.6 U	5.2 U	3.3 U	4.6 U	3.8 U
Cadmium	mg/kg	2.9 U	**14.4**	**5.5 J**	**3.1 J**	**3.2 J**	**14.3 J**	**11.5**	**27.7**	**2.1 J**	3.1 U	**4.6 J**	3.1 U	**10.8**	**20.2**	**6.9 J**	**6**	**23.5**	**16.6**
Calcium	mg/kg	**67,100 J**	**6,810**	**7,200**	**2,260**	**8,440**	**9,840**	**3,400**	**6,580**	**2,160**	**355 J**	**3,470**	**1,450**	**7,180**	**5,400**	**26,700**	**11,200**	**9,870**	**11,600 J**
Chromium	mg/kg	**4.9**	**115**	**106 J**	**50.4 J**	**80.7**	**147**	**170**	**336**	**74.5**	**8.1**	**81.5 J**	**19 J**	**177 J**	**268 J**	**134 J**	**130 J**	**493 J**	**434**
Cobalt	mg/kg	**2.1 J**	**7.9 J**	**12.3 J**	**8.1 J**	**9.4 J**	**9.2 J**	**9.7 J**	**17.6 J**	**7.9 J**	**9.2 J**	**11 J**	**6.4 J**	**19.2 J**	**12.1 J**	**10.9 J**	**9.1 J**	**9.1 J**	**10.6 J**
Copper	mg/kg	**18.8**	**250**	**217 J**	**109 J**	**191**	**292**	**411**	**755**	**141**	**6**	**225 J**	**42.9 J**	**563 J**	**466 J**	**393**	**648**	**804**	**734**
Iron	mg/kg	**6,630**	**21,700**	**36,300 J**	**24,600 J**	**27,300**	**28,600**	**29,300**	**40,100**	**23,000**	**23,100**	**31,300 J**	**17,000 J**	**38,100 J**	**37,100 J**	**27,900**	**24,600**	**29,500**	**29,000**
Lead	mg/kg	**5.6 J**	**314**	**258 J**	**173 J**	**221**	**372**	**393**	**754**	**292**	9.2 U	**316 J**	**114 J**	**513 J**	**438 J**	**787**	**898**	**1,580**	**1,340**
Magnesium	mg/kg	**43,200 J**	**6,340**	**9,720 J**	**3,700 J**	**8,690**	**7,840**	**3,340**	**8,430**	**4,080**	**1,750**	**4,700 J**	**2,460 J**	**7,440 J**	**6,310 J**	**12,400**	**6,500**	**6,240**	**8,170**
Manganese	mg/kg	**78.8 J**	**225**	**393 J**	**279 J**	**301**	**278**	**221 J**	**362 J**	**188 J**	**92.5 J**	**311 J**	**126 J**	**386 J**	**323 J**	**247 J**	**142 J**	**173 J**	**150 J**
Mercury	mg/kg	**0.04**	**2.6**	**1.9**	**2.1**	**2 J**	**2.3**	**2.6**	**3.7**	**2.6**	0.04 U	**3.9**	**0.64**	**1.6**	**4.2**	**1.4**	**2.1**	**4.3**	**2.4**
Nickel	mg/kg	**5.3 J**	**42.7**	**43.1 J**	**24.3 J**	**32.1**	**50.9**	**76.5**	**152**	**27.4**	**14.4**	**36.4 J**	**16 J**	**149 J**	**77.6 J**	**86.4 J**	**123 J**	**273 J**	**225**
Potassium	mg/kg	**265 J**	**1,440 J**	**3,230 J**	**1,360 J**	**2,390 J**	**2,020 J**	**1,180 J**	**2,800 J**	**1,440 J**	**509 J**	**1,610 J**	**916 J**	**2,760 J**	**2,620 J**	**3,550 J**	**1,560 J**	**1,260 J**	**1,500 J**
Selenium	mg/kg	15.4 U	45 UJ	48.1 UJ	23 UJ	36.3 UJ	41.5 UJ	22 UJ	43 UJ	23.4 UJ	16.3 UJ	**3.7 J**	16.5 UJ	36.5 UJ	29.1 UJ	41.3 U	26 U	37 U	30.2 U
Silver	mg/kg	2.9 U	**5.7 J**	9 U	4.3 U	**5.2 J**	**7.9**	**8.6**	**15.5**	**2 J**	3.1 U	5.6 U	3.1 U	**7.5 J**	**12.1 J**	**7.3 J**	**6.1**	**16.8**	**11.9**
Sodium	mg/kg	**1,100 J**	**7,800 J**	**9,920 J**	**884 J**	**12,900 J**	**9,350 J**	**2,750**	**13,800**	**3,010**	**793 J**	**7,680 J**	**2,020 J**	**11,400 J**	**8,060 J**	**8,650**	**3,540**	**6,320**	**8,840 J**
Thallium	mg/kg	19.2 UJ	56.3 UJ	60.2 UJ	28.8 UJ	45.4 UJ	51.8 UJ	27.5 U	53.8 U	29.3 U	20.4 U	37.2 UJ	20.6 UJ	45.7 UJ	36.4 UJ	51.7 U	32.5 U	46.2 U	37.8 U
Vanadium	mg/kg	**7.8 J**	**31.2**	**47.8 J**	**33.5 J**	**39.4**	**41.9**	**46**	**66.4**	**29.1**	**17.9**	**33.9 J**	**16.2 J**	**42.7 J**	**62.8 J**	**55**	**36**	**138**	**69.3**
Zinc	mg/kg	**20.7**	**518**	**449 J**	**280 J**	**387**	**549**	**856**	**1,560**	**297**	**29.3**	**522 J**	**140 J**	**1,460 J**	**750 J**	**931 J**	**922 J**	**2,040 J**	**1,550**
Cyanide, Total	mg/kg	0.55 U	1.06 U	1.35 UJ	0.66 UJ	1.27 U	**0.28 J**	0.69 UJ	1.39 UJ	0.73 UJ	0.56 UJ	0.84 UJ	0.63 UJ	1.05 UJ	0.98 UJ	1.04 U	0.71 U	**0.44 J**	1.04 UJ

TABLE I-12A
Metal and Cyanide Concentrations in Soft Sediments
Gowanus Canal Remedial Investigation
Brooklyn, New York

Station Location:		GC-SED-87	GC-SED-88	GC-SED-89B	GC-SED-90B	GC-SED-91	GC-SED-92	GC-SED-93	GC-SED-94	GC-SED-95	GC-SED-96	GC-SED-97	GC-SED-97	GC-SED-98	GC-SED-98	GC-SED-99B	GC-SED-99B
Sample Number:		GC-SED-87(4.4-6.2)	GC-SED-88(0.5-1)	GC-SED-89(1.8-2.3)	GC-SED-90B(0-1)	GC-SED-91(4.7-6.2)	GC-SED-92(0-2)	GC-SED-93(0-1)	GC-SED-94(0.5-1.25)	GC-SED-95(3.5-4.5)	GC-SED-96(0-1)	GC-SED-97(0.5-2.0)	GC-SED-97(8.5-9.0)	GC-SED-98(1-2)	GC-SED-98(8.5-9.5)	GC-SED-99(3.5-4.5)	GC-SED-99(7.2-8.7)
Sample Depth:		4.4-6.2	0.5-1	1.8-2.3	0-1	4.7-6.2	0-2	0-1	0.5-1.25	3.5-4.5	0-1	0.5-2	8.5-9	1-2	8.5-9.5	3.5-4.5	7.2-8.7
Sample Date:		12/15/2005	12/14/2005	12/14/2005	12/14/2005	1/22/2006	12/16/2005	12/16/2005	12/20/2005	12/15/2005	12/15/2005	1/28/2006	1/28/2006	1/27/2006	1/27/2006	12/22/2005	12/22/2005
Sample Type:		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Parameter	**Units**	**Metals**															
Aluminum	mg/kg	**12,400 J**	**12,000 J**	**13,100 J**	**7,350 J**	**14,000**	**17,900 J**	**12,600 J**	**5,400**	**7,730 J**	**6,260**	**9,980**	**4,740**	**10,100**	**4,530**	**7,810**	**6,130**
Antimony	mg/kg	43.2 UJ	34.1 UJ	35.2 UJ	**17.6 J**	29.3 UJ	39.7 UJ	46.7 UJ	20.2 UJ	17.6 UJ	26 UJ	29.6 UJ	**4.7 J**	30 UJ	**5.2 J**	**44.5 J**	18.1 UJ
Arsenic	mg/kg	**40.2 J**	**16.4 J**	**22.3 J**	**18.8 J**	**22.6**	**18.3 J**	**23.1 J**	**11.9 J**	**10.6 J**	**15.6 J**	**15.7 J**	**20.9 J**	**8.5 J**	**41.5 J**	**33.3**	**51.6 J**
Barium	mg/kg	**1,120**	**1,560**	**1,200**	**536**	**739 J**	**1,370 J**	**1,790 J**	**551 J**	**390**	**138**	**453 J**	**686 J**	**242 J**	**727 J**	**729 J**	**417 J**
Beryllium	mg/kg	7.4 U	5.8 U	6 U	4.6 U	5 U	6.8 UJ	8 UJ	3.4 U	3 U	4.4 U	5.1 U	4.5 U	5.1 U	4.2 U	3.5 U	3.1 U
Cadmium	mg/kg	**49.3**	**7.1 J**	**43.8**	**19.2**	**15.1**	**11.1 J**	**97.6 J**	**23.5**	**10.1**	6.7 U	**12.6**	**10.5**	**3.2 J**	**5.5 J**	**20.2**	**4.1 J**
Calcium	mg/kg	**13,300 J**	**18,900 J**	**16,000 J**	7,400 U	**20,100 J**	**14,200 J**	**15,300 J**	**9,290**	**15,200 J**	**27,600**	**18,900**	**11,400**	**8,850**	**5,630**	**10,700**	**5,370**
Chromium	mg/kg	**812**	**137**	**667**	**297**	**188**	**184 J**	**874 J**	**205**	**214**	**63.3 J**	**240 J**	**124**	**87**	**74.1**	**243**	**59.9**
Cobalt	mg/kg	**15.1 J**	**11.1 J**	**13.3 J**	**9.4 J**	**12.2 J**	**14.1 J**	**13 J**	**6.8 J**	**9.1 J**	**5.6 J**	**11.1 J**	**10.6 J**	**9 J**	**10 J**	**9 J**	**6.5 J**
Copper	mg/kg	**1,220**	**370**	**1,030**	**481**	**502**	**473 J**	**1,310 J**	**425**	**423**	**219**	**559**	**465**	**234**	**571**	**648**	**361**
Iron	mg/kg	**38,200**	**27,100**	**31,800**	**25,300**	**33,500**	**36,000 J**	**32,800 J**	**25,100**	**21,300**	**36,300**	**29,600**	**25,700**	**25,200**	**30,800**	**27,200**	**24,000**
Lead	mg/kg	**1,820**	**570**	**1,510**	**683**	**834 J**	**673 J**	**1,650 J**	**978**	**809**	**315**	**1,120**	**2,030**	**442**	**1,090**	**1,090**	**809**
Magnesium	mg/kg	**7,220**	**14,900**	**11,900**	**5,530**	**14,600**	**14,100 J**	**11,300 J**	**5,560**	**7,820**	**6,230**	**11,700 J**	**3,720 J**	**9,110 J**	**3,950 J**	**7,070**	**3,430**
Manganese	mg/kg	**418 J**	**253 J**	**236 J**	**144 J**	**287**	**340 J**	**213 J**	**109**	**156 J**	**483 J**	**195 J**	**110 J**	**225 J**	**136 J**	**170**	**150**
Mercury	mg/kg	**6.5**	**1.4**	**4.5**	**2.3**	**1.5 J**	**1.9 J**	**4.8 J**	**2.9**	**1.4**	**0.91**	**10.2 J**	**4.5**	**1.3 J**	**5.6**	**0.96 J**	**1.3 J**
Nickel	mg/kg	**322**	**68.3 J**	**345**	**137**	**104**	**88 J**	**469 J**	**145**	**136**	**51.1 J**	**162 J**	**64.5 J**	**47.9 J**	**51.2 J**	**101**	**33.7**
Potassium	mg/kg	**1,380 J**	**2,670 J**	**2,250 J**	**1,450 J**	**2,320 J**	**3,280 J**	**2,210 J**	**976 J**	**1,380 J**	**1,510 J**	**1,900 J**	**828 J**	**2,120 J**	**1,100 J**	**1,340 J**	**1,010 J**
Selenium	mg/kg	59.1 U	46.6 U	48.2 U	36.8 U	40.1 U	54.3 UJ	63.8 UJ	27.6 U	24 U	35.5 U	40.5 UJ	35.8 UJ	41 UJ	34 UJ	28.3 U	24.8 U
Silver	mg/kg	**31.4**	**7.9 J**	**23**	**11.5**	**10.4 J**	**11.4 J**	**33.1 J**	**10.3**	**7.3**	**4.1 J**	**13.5**	**16.5**	**10.5**	**8.1**	**16.8**	**5.5**
Sodium	mg/kg	**546 J**	**15,100 J**	**13,400 J**	**8,960 J**	**7,490 J**	**6,930 J**	**9,640 J**	**5,000**	**3,790 J**	**6,290**	**8,580**	**4,590**	**10,200**	**8,500**	**6,120 J**	**3,250 J**
Thallium	mg/kg	73.8 U	58.3 U	60.2 U	46 U	50.2 UJ	67.8 UJ	79.7 UJ	34.5 UJ	30 U	44.4 U	50.7 U	44.8 U	51.2 U	42.5 U	35.3 UJ	31 UJ
Vanadium	mg/kg	**230**	**53.6**	**126**	**89.3**	**61**	**73 J**	**105 J**	**50**	**45.8**	**26.8**	**55.6**	**40.7**	**42.4**	**31**	**120**	**30.8**
Zinc	mg/kg	**2,560**	**906**	**2,140**	**1,120**	**1,250**	**1,150 J**	**2,560 J**	**991**	**1,020**	**673 J**	**1,360 J**	**1,300 J**	**640 J**	**1,650 J**	**1,550**	**842**
Cyanide, Total	mg/kg	1.45 UJ	1.53 UJ	**0.16 J**	**0.28 J**	1.41 U	1.79 UJ	1.74 UJ	0.86 UJ	0.74 UJ	0.91 U	1.04 UJ	0.96 UJ	1.15 UJ	1.23 UJ	0.83 UJ	**0.35 J**