

APPENDIX E

Analytical Data used in HHRA

Table E-1
List of Samples Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Exposure Area	Media	Location	Field Sample ID	Date	Top Depth	Bottom Depth
Area 1	Surface Soil	B-10	Ad2004-SS-10-SH	6/21/2004	0	1
		B-11	Ad2004-SS-11-SH	6/21/2004	0	1
		B-11	Ad2004-SS-B11-SH	8/26/2004	0	1
		FLA-09	FLA-SB-09-01	8/1/1998	0	0.5
		FLA-10	FLA-SB-10-01	8/1/1998	0	0.5
		FLA-11	FLA-SB-11-01	8/1/1998	0	0.5
		FLA-12	FLA-SB-12-01	8/1/1998	0	0.5
		FLA-13	FLA-SB-13-01	8/1/1998	0	0.5
		FLA-46	FLA-SS-46-01	7/1/2000	0	0.17
		FLA-47	FLA-SS-47-01	7/1/2000	0	0.17
		FLA-48	FLA-SS-48-01	7/1/2000	0	0.17
		FLA-48	FSS-SS-48-22	7/1/2000	0	0.17
		FLA-49	FLA-SS-49-01	7/1/2000	0	0.17
		FLA-50	FLA-SS-50-01	7/1/2000	0	0.17
	FLA-51	FLA-SS-51-01	7/1/2000	0	0.17	
	FLA-52	FLA-SS-52-01	7/1/2000	0	0.17	
	Subsurface Soil	FLA-10	FLA-SB-10-02	8/1/1998	2	3
		FLA-11	FLA-SB-11-02	8/1/1998	2	3
		FLA-12	FLA-SB-12-02	8/1/1998	2	3
		B-10	Ad2004-SS-10-DP	6/21/2004	1	2
B-11		Ad2004-SS-11-DP	6/21/2004	1	2	
B-11		Ad2004-SS-B11-DP	8/26/2004	1	2	
Area 2	Surface Soil	B-09	Ad2004-SS-9-SH	6/21/2004	0	1
		SB-04	FSS-SB-04-01	8/1/1998	0	0.5
		SB-05	FSS-SB-05-01	8/1/1998	0	0.5
		SS-18	FSS-SS-18-01	7/1/2000	0	0.17
		SS-19	FSS-SS-19-01	7/1/2000	0	0.17
		SS-20	FSS-SS-20-01	7/1/2000	0	0.17
		SS-21	FSS-SS-21-01	7/1/2000	0	0.17
		SS-22	FSS-SS-22-01	7/1/2000	0	0.17
		SS-23	FSS-SS-23-01	7/1/2000	0	0.17
		SS-24	FSS-SS-24-01	7/1/2000	0	0.17
		SS-25	FSS-SS-25-01	7/1/2000	0	0.17
		SS-26	FSS-SS-26-01	7/1/2000	0	0.17
		SS-27	FSS-SS-27-01	7/1/2000	0	0.17
		SS-28	FSS-SS-28-01	7/1/2000	0	0.17
		SS-29	FSS-SS-29-01	7/1/2000	0	0.17
		624-SS-01	624-SS-01-01	8/26/1998	0	0.5
		624-SS-02	624-SS-02-01	8/26/1998	0	0.5
		624-SS-03	624-SS-03-01	8/26/1998	0	0.5
		624-SS-04	624-SS-04-01	8/26/1998	0	0.5
		624-SS-05	624-SS-05-01	8/26/1998	0	0.5
		624-SS-06	624-SS-06-01	8/26/1998	0	0.5
		624-SS-53	624-SS-53-01	7/22/2000	0	0.17
		624-SS-54	624-SS-54-01	7/22/2000	0	0.17
		AI2-101	AI2-101(0-2)"	5/13/2011	0	0.17
		AI2-102	AI2-102(0-2)"	5/13/2011	0	0.17
		AI2-103	AI2-103(0-2)"	5/13/2011	0	0.17
AI2-104	AI2-104(0-2)"	5/13/2011	0	0.17		

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Exposure Area	Media	Location	Field Sample ID	Date	Top Depth	Bottom Depth	
Area 2 (cont)	Surface Soil (cont)	AI2-105	AI2-105(0-2)"	5/13/2011	0	0.17	
		AI2-106	AI2-106(0-2)"	5/13/2011	0	0.17	
		AI2-107	AI2-107(0-2)	5/11/2011	0	0.17	
		AI2-108	AI2-108(0-2)	5/12/2011	0	0.17	
		AI2-109	AI2-109(0-2)	5/11/2011	0	0.17	
		AI2-110	AI2-110(0-2)	5/12/2011	0	0.17	
		AI2-111	AI2-111(0-2)	5/11/2011	0	0.17	
		AI2-112	AI2-112(0-2)	5/11/2011	0	0.17	
		Subsurface Soil	B-09	Ad2004-SS-9-DP	6/21/2004	1	2
			SB-04	FSS-SB-04-02	8/1/1998	2	3
			SB-05	FSS-SB-05-02	8/1/1998	2	3
			AI2-101	AI2-101(6-24)"	5/13/2011	0.5	2
	AI2-102		AI2-102(6-24)"	5/13/2011	0.5	2	
	AI2-103		AI2-103(6-24)"	5/13/2011	0.5	2	
	AI2-104		AI2-104(6-24)"	5/13/2011	0.5	2	
	AI2-105		AI2-105(6-24)"	5/13/2011	0.5	2	
	AI2-106		AI2-106(6-24)"	5/13/2011	0.5	2	
	AI2-107		AI2-107(6-24)	5/11/2011	0.5	2	
	AI2-108		AI2-108(6-24)	5/12/2011	0.5	2	
	AI2-109		AI2-109(6-24)	5/11/2011	0.5	2	
	AI2-110	AI2-110(6-24)	5/12/2011	0.5	2		
	AI2-111	AI2-111(6-24)	5/11/2011	0.5	2		
	AI2-112	AI2-112(6-24)	5/11/2011	0.5	2		
	Area 3	Surface Soil	B-01	Ad2004-SS-1-SH	6/21/2004	0	1
B-02			Ad2004-SS-2-SH	6/21/2004	0	1	
B-03			Ad2004-SS-3-SH	6/21/2004	0	1	
B-04			Ad2004-SS-4-SH	6/21/2004	0	1	
AI3-101			AI3-101(0-2)	5/10/2011	0	0.17	
AI3-102			AI3-102(0-2)	5/10/2011	0	0.17	
AI3-103			AI3-103(0-2)	5/10/2011	0	0.17	
AI3-104			AI3-104(0-2)	5/10/2011	0	0.17	
AI3-105			AI3-105(0-2)	5/10/2011	0	0.17	
AI3-106			AI3-106(0-2)	5/11/2011	0	0.17	
AI3-107			AI3-107(0-2)	5/11/2011	0	0.17	
AI3-108			AI3-108(0-2)	5/10/2011	0	0.17	
AI3-109			AI3-109(0-2)	5/10/2011	0	0.17	
AI3-110			AI3-110(0-2)	5/11/2011	0	0.17	
AI3-111			AI3-111(0-2)	5/10/2011	0	0.17	
AI3-112			AI3-112(0-2)	5/10/2011	0	0.17	
SS-30			FSS-SS-30-01	7/1/2000	0	0.17	
SS-31			FSS-SS-31-01	7/1/2000	0	0.17	
SS-32			FSS-SS-32-01	7/1/2000	0	0.17	
SS-33			FSS-SS-33-01	7/1/2000	0	0.17	
SS-34			FSS-SS-34-01	7/1/2000	0	0.17	
SS-35			FSS-SS-35-01	7/1/2000	0	0.17	
SS-36			FSS-SS-36-01	7/1/2000	0	0.17	
SS-37			FSS-SS-37-01	7/1/2000	0	0.17	
SS-38	FSS-SS-38-01	7/1/2000	0	0.17			
SS-39	FSS-SS-39-01	7/1/2000	0	0.17			

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Exposure Area	Media	Location	Field Sample ID	Date	Top Depth	Bottom Depth
Area 3 (cont)	Surface Soil (cont)	SS-40	FSS-SS-40-01	7/1/2000	0	0.17
		SB-06	FSS-SB-06-01	8/1/1998	0	0.5
		SB-07	FSS-SB-07-01	8/1/1998	0	0.5
		SS-45	FSS-SS-45-01	7/1/2000	0	0.17
	Subsurface Soil	AI3-101	AI3-101(6-24)	5/10/2011	0.5	2
		AI3-102	AI3-102(6-24)	5/10/2011	0.5	2
		AI3-103	AI3-103(6-24)	5/10/2011	0.5	2
		AI3-104	AI3-104(6-24)	5/10/2011	0.5	2
		AI3-105	AI3-105(6-24)	5/10/2011	0.5	2
		AI3-106	AI3-106(2-4)	5/11/2011	2	4
		AI3-106	AI3-106(6-24)	5/11/2011	0.5	2
		AI3-107	AI3-107(2-4)	5/11/2011	2	4
		AI3-107	AI3-107(6-24)	5/11/2011	0.5	2
		AI3-108	AI3-108(6-24)	5/10/2011	0.5	2
		AI3-109	AI3-109(6-24)	5/10/2011	0.5	2
		AI3-110	AI3-110(2-4)	5/11/2011	2	4
		AI3-110	AI3-110(6-24)	5/11/2011	0.5	2
		AI3-111	AI3-111(6-24)	5/10/2011	0.5	2
		AI3-112	AI3-112(6-12)	5/10/2011	0.5	1
		AI3-112	AI3-112(6-24)	5/10/2011	0.5	2
	B-01	Ad2004-SS-1-DP	6/21/2004	1	2	
	B-02	Ad2004-SS-2-DP	6/21/2004	1	2	
	B-03	Ad2004-SS-3-DP	6/21/2004	1	2	
	B-04	Ad2004-SS-4-DP	6/21/2004	1	2	
	SB-06	FSS-SB-06-02	8/1/1998	2	3	
	SB-06	FSS-SB-06-03	8/1/1998	6	7	
	SB-07	FSS-SB-07-04	8/1/1998	2	3	
Area 4	Surface Soil	B-05	Ad2004-SS-5-SH	6/21/2004	0	1
		B-06	Ad2004-SS-6-SH	6/21/2004	0	1
		B-07	Ad2004-SS-7-SH	6/21/2004	0	1
		B-08	Ad2004-SS-8-SH	6/21/2004	0	1
		SS-02	FSS-SS-02-01	7/1/2000	0	0.17
		SS-03	FSS-SS-03-01	7/1/2000	0	0.17
		SS-04	FSS-SS-04-01	7/1/2000	0	0.17
		SS-05	FSS-SS-05-01	7/1/2000	0	0.17
		SS-06	FSS-SS-06-01	7/1/2000	0	0.17
		SS-07	FSS-SS-07-01	7/1/2000	0	0.17
		SS-08	FSS-SS-08-01	7/1/2000	0	0.17
		SS-09	FSS-SS-09-01	7/1/2000	0	0.17
		SS-10	FSS-SS-10-01	7/1/2000	0	0.17
		SS-11	FSS-SS-11-01	7/1/2000	0	0.17
		SS-12	FSS-SS-12-01	7/1/2000	0	0.17
		SS-13	FSS-SS-13-01	7/1/2000	0	0.17
		SS-14	FSS-SS-14-01	7/1/2000	0	0.17
		SS-15	FSS-SS-15-01	7/1/2000	0	0.17
		SS-16	FSS-SS-16-01	7/1/2000	0	0.17
		SS-17	FSS-SS-17-01	7/1/2000	0	0.17
SS-01	FSS-SS-01-01	7/1/2000	0	0.17		

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Area 4 Con't	Surface Soil (cont)	SB-01	FSS-SB-01-01	8/1/1998	0	0.5
		SB-02	FSS-SB-02-01	8/1/1998	0	0.5
		SB-03	FSS-SB-03-01	8/1/1998	0	0.5
		AI4-101	AI4-101(0-2)	5/10/2011	0	0.17
		AI4-102	AI4-102(0-2)	5/12/2011	0	0.17
		AI4-103	AI4-103(0-2)	5/12/2011	0	0.17
		AI4-104	AI4-104(0-2)	5/12/2011	0	0.17
		AI4-105	AI4-105(0-2)	5/11/2011	0	0.17
		AI4-106	AI4-106(0-2)	5/11/2011	0	0.17
		AI4-107	AI4-107(0-2)	5/12/2011	0	0.17
		AI4-108	AI4-108(0-2)	5/12/2011	0	0.17
		AI4-109	AI4-109(0-2)	5/12/2011	0	0.17
		AI4-110	AI4-110(0-2)	5/12/2011	0	0.17
		AI4-111	AI4-111(0-2)	5/12/2011	0	0.17
		AI4-112	AI4-112(0-2)	5/11/2011	0	0.17
AI4-113	AI4-113(0-2)	5/12/2011	0	0.17		
AI4-114	AI4-114(0-2)	5/12/2011	0	0.17		
AI4-115	AI4-115(0-2)	5/11/2011	0	0.17		
Area 4	Subsurface Soil	B-05	Ad2004-SS-5-DP	6/21/2004	1	2
		B-06	Ad2004-SS-6-DP	6/21/2004	1	2
		B-07	Ad2004-SS-7-DP	6/21/2004	1	2
		B-08	Ad2004-SS-8-DP	6/21/2004	1	2
		SB-01	FSS-SB-01-02	8/1/1998	2	3
		SB-02	FSS-SB-02-02	8/1/1998	2	3
		SB-03	FSS-SB-03-02	8/1/1998	2	3
		AI4-101	AI4-101(6-24)	5/10/2011	0.5	2
		AI4-102	AI4-102(6-24)	5/12/2011	0.5	2
		AI4-103	AI4-103(6-24)	5/12/2011	0.5	2
		AI4-104	AI4-104(6-24)	5/12/2011	0.5	2
		AI4-105	AI4-105(6-24)	5/11/2011	0.5	2
		AI4-106	AI4-106(6-24)	5/11/2011	0.5	2
		AI4-107	AI4-107(6-24)	5/12/2011	0.5	2
		AI4-108	AI4-108(6-24)	5/12/2011	0.5	2
AI4-109	AI4-109(6-24)	5/12/2011	0.5	2		
AI4-110	AI4-110(6-24)	5/12/2011	0.5	2		
AI4-111	AI4-111(6-24)	5/12/2011	0.5	2		
AI4-112	AI4-112(6-24)	5/11/2011	0.5	2		
AI4-113	AI4-113(6-24)	5/12/2011	0.5	2		
AI4-114	AI4-114(6-24)	5/12/2011	0.5	2		
AI4-115	AI4-115(6-24)	5/11/2011	0.5	2		
Area 5	Surface Soil	AI5-101	AI5-101(0-6)	5/10/2011	0	0.5
		AI5-102	AI5-102(0-2)	5/10/2011	0	0.17
		AI5-103	AI5-103(0-2)	5/10/2011	0	0.17
		AI5-104	AI5-104(0-2)	5/10/2011	0	0.17
		AI5-105	AI5-105(0-2)	5/11/2011	0	0.17
		AI5-106	AI5-106(0-2)	5/11/2011	0	0.17
		AI5-106	AI5-106(0-6)	5/11/2011	0	0.5
		AI5-107	AI5-107(0-2)	5/11/2011	0	0.17
		AI5-108	AI5-108(0-2)	5/11/2011	0	0.17

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Area 5 (cont)	Surface Soil (cont)	AI5-109	AI5-109(0-2)	5/10/2011	0	0.17
		AI5-110	AI5-110(0-2)	5/11/2011	0	0.17
		SS-41	FSS-SS-41-01	7/1/2000	0	0.17
		SS-42	FSS-SS-42-01	7/1/2000	0	0.17
		SS-43	FSS-SS-43-01	7/1/2000	0	0.17
		SS-44	FSS-SS-44-01	7/1/2000	0	0.17
		SB-08	FSS-SB-08-01	8/1/1998	0	0.5
Area 5	Subsurface Soil	615-SB-16	615SB16	3/22/2007	0	7
		615-SB-17	615SB17	3/22/2007	0	7
		615-SB-18	615SB18	3/22/2007	0	7
		615-SB-01	615-SB01	5/9/2006	3.7	3.7
		615-SB-01	615-SB01 RE	5/9/2006	3.7	3.7
		615-SB-02	615-SB02	5/9/2006	2	2
		615-SB-03	615SB03	5/9/2006	3.5	3.5
		615-SB-04	615SB04	10/30/2006	2.5	2.5
		615-SB-05	615SB05	10/30/2006	2.7	2.7
		615-SB-06	615SB06	10/31/2006	5	5
		615-SB-07	615SB07	10/31/2006	4	4
		615-SB-08	615SB08	10/31/2006	4.2	4.2
		615-SB-09	615SB09	10/31/2006	4.4	4.4
		615-SB-10	615SB10	10/31/2006	4.8	4.8
		615-SB-11	615SB11	10/31/2006	4	4
		615-SB-15	615SB15	3/22/2007	7	7
		AI5-101	AI5-101(2-6)	5/10/2011	2	6
		AI5-101	AI5-101(6-24)	5/10/2011	0.5	2
		AI5-102	AI5-102(2-6)	5/10/2011	2	6
		AI5-102	AI5-102(6-24)	5/10/2011	0.5	2
		AI5-103	AI5-103(2-6)	5/10/2011	2	6
		AI5-103	AI5-103(6-24)	5/10/2011	0.5	2
		AI5-104	AI5-104(2-6)	5/10/2011	2	6
		AI5-104	AI5-104(6-24)	5/10/2011	0.5	2
		AI5-105	AI5-105(2-6)	5/11/2011	2	6
		AI5-105	AI5-105(6-24)	5/11/2011	0.5	2
		AI5-106	AI5-106(2-6)	5/11/2011	2	6
		AI5-106	AI5-106(6-24)	5/11/2011	0.5	2
		AI5-107	AI5-107(2-6)	5/11/2011	2	6
		AI5-107	AI5-107(6-24)	5/11/2011	0.5	2
		AI5-108	AI5-108(2-6)	5/11/2011	2	6
		AI5-108	AI5-108(6-24)	5/11/2011	0.5	2
		AI5-109	AI5-109(2-6)	5/10/2011	2	6
AI5-109	AI5-109(6-24)	5/10/2011	0.5	2		
AI5-110	AI5-110(2-6)	5/11/2011	2	6		
AI5-110	AI5-110(6-24)	5/11/2011	0.5	2		
SB-08	FSS-SB-08-02	8/1/1998	2	3		
SB-08	FSS-SB-08-03	8/1/1998	8	10		
Background	Surface Soil	BKG-01	BKG-SH-01	9/16/2008	0	0.25
		BKG-02	BKG-SH-02	9/16/2008	0	0.25
		BKG-03	BKG-SH-03	9/16/2008	0	0.25
		BKG-04	BKG-SH-04	9/16/2008	0	0.25

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Background (cont)	Surface Soil (cont)	BKG-05	BKG-SH-05	9/16/2008	0	0.25	
		BKG-06	BKG-SH-06	9/16/2008	0	0.25	
		BKG-07	BKG-SH-07	9/16/2008	0	0.25	
		BKG-08	BKG-SH-08	9/16/2008	0	0.25	
		BKG-09	BKG-SH-09	9/16/2008	0	0.25	
		BKG-10	BKG-SH-10	9/16/2008	0	0.25	
		BKG-11	BKG-SH-11	9/16/2008	0	0.25	
		BKG-12	BKG-SH-12	9/16/2008	0	0.25	
		BKG-13	BKG-SH-13	9/16/2008	0	0.25	
		BKG-14	BKG-SH-14	9/16/2008	0	0.25	
		BKG-15	BKG-SH-15	9/16/2008	0	0.25	
		Subsurface Soil	BKG-01	BKG-SD-01	9/16/2008	1.5	2
			BKG-02	BKG-SD-02	9/16/2008	1.5	2
			BKG-03	BKG-SD-03	9/16/2008	1.5	2
			BKG-04	BKG-SD-04	9/16/2008	1.5	2
	BKG-05		BKG-SD-05	9/16/2008	1.5	2	
	BKG-06		BKG-SD-06	9/16/2008	1.5	2	
	BKG-07		BKG-SD-07	9/16/2008	1.5	2	
	BKG-08		BKG-SD-08	9/16/2008	1.5	2	
	BKG-09		BKG-SD-09	9/16/2008	1.5	2	
	BKG-10		BKG-SD-10	9/16/2008	1.5	2	
	BKG-11		BKG-SD-11	9/16/2008	1.5	2	
	BKG-12		BKG-SD-12	9/16/2008	1.5	2	
	BKG-13		BKG-SD-13	9/16/2008	1.5	2	
	BKG-14		BKG-SD-14	9/16/2008	1.5	2	
	BKG-15		BKG-SD-15	9/16/2008	1.5	2	

Prepared By/Date: EYM 10/26/11
Checked By/Date: BJR 11/1/11

Table E-2
Area 1 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-10 Ad2004- SS-10-SH 6/21/2004 0-1 ft	B-11 Ad2004-SS- 11-SH 6/21/2004 0-1 ft	B-11 Ad2004-SS- B11-SH 8/26/2004 0-1 ft	FLA-09 FLA-SB- 09-01 8/1/1998 0-0_5 ft	FLA-10 FLA-SB-10- 01 8/1/1998 0-0_5 ft	FLA-11 FLA-SB- 11-01 8/1/1998 0-0_5 ft	FLA-12 FLA-SB- 12-01 8/1/1998 0-0_5 ft	FLA-13 FLA-SB- 13-01 8/1/1998 0-0_5 ft	FLA-46 FLA-SS- 46-01 7/1/2000 0-0_17 ft	FLA-47 FLA-SS- 47-01 7/1/2000 0-0_17 ft	FLA-48 FLA-SS- 48-01 7/1/2000 0-0_17 ft	FLA-48 FSS-SS- 48-22 7/1/2000 0-0_17 ft	FLA-49 FLA-SS- 49-01 7/1/2000 0-0_17 ft	FLA-50 FLA-SS- 50-01 7/1/2000 0-0_17 ft	FLA-51 FLA-SS- 51-01 7/1/2000 0-0_17 ft	FLA-52 FLA-SS- 52-01 7/1/2000 0-0_17 ft
Semivolatile Organics (mg/kg)																
1,2-Dichlorobenzene	0.033 U	0.00402 U	0.00436 U						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
2,4,5-Trichlorophenol	0.033 U								1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
2,4-Dichlorophenol	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
2,4-Dinitrophenol	0.033 U								1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
2,6-Dinitrotoluene	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
2-Chlorophenol	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
2-Methylnaphthalene	0.033 U							0.082 J	0.35 U	0.44 U	0.057 J	0.057 J	0.053 J	0.088 J	0.083 J	0.042 J
2-Methylphenol	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
2-Nitroaniline	0.033 U								1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
2-Nitrophenol	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
3,3'-Dichlorobenzidine	2 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
3-Nitroaniline	0.033 U								1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
4-Chloro-3-methylphenol	0.0067 J	0.0079 J	0.0066 J						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
4-Chloroaniline	0.17 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
4-Methylphenol	0.033 U	0.00586 U	0.00278 U						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
4-Nitrophenol	0.066 U								1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
Acenaphthene	0.033 U	0.046	0.029 J						0.35 U	0.44 U	0.13 J	0.081 J	0.43 U	0.43 U	0.43 U	0.39 U
Acenaphthylene	0.016 J	0.024 J	0.022 J						0.048 J	0.053 J	0.047 J	0.4 U	0.052 J	0.43 U	0.047 J	0.39 U
Anthracene	0.012 J	0.16	0.11	0.13 J	0.14 J			0.11 J	0.051 J	0.14 J	0.23 J	0.24 J	0.086 J	0.072 J	0.14 J	0.068 J
Benzo(a)anthracene	0.089	0.55	0.34	0.53	0.5	0.26 J	0.18 J	0.35 J	0.27 J	0.44	0.77	0.79	0.32 J	0.31 J	0.54	0.26 J
Benzo(a)pyrene	0.14	0.37	0.31	0.52	0.6	0.31 J	0.22 J	0.38 J	0.33 J	0.48	0.87	0.83	0.39 J	0.36 J	0.55	0.29 J
Benzo(b)fluoranthene	0.073	0.5	0.36	0.7	0.85	0.39 J	0.32 J	0.48	0.39	0.67	1.1	1	0.54	0.4 J	0.83	0.46
Benzo(ghi)perylene	0.069 J	0.36	0.2	0.36 J	0.31 J	0.23 J	0.13 J	0.31 J	0.2 J	0.34 J	0.63	0.53	0.26 J	0.31 J	0.43 J	0.24 J
Benzo(k)fluoranthene	0.068 J	0.092 J	0.23	0.27 J	0.33 J	0.15 J	0.12 J	0.19 J	0.17 J	0.25 J	0.43	0.39 J	0.19 J	0.19 J	0.27 J	0.16 J
Bis(2-Ethylhexyl)phthalate	0.053 J	0.39	0.12		0.084 J		0.11 J	0.2 J	0.038 J	0.21 J	0.098 J	0.072 J	0.11 J	0.11 J	1.8	0.45
Butylbenzylphthalate	0.024 J	0.078	0.00209 U						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.073 J	0.061 J
Carbazole	0.033 U	0.068	0.038						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.098 J	0.042 J
Chrysene	0.12 J	0.54 J	0.31	0.57	0.59	0.33 J	0.25 J	0.45	0.33 J	0.53	0.81	0.88	0.38 J	0.35 J	0.66	0.36 J
Dibenz(a,h)anthracene	0.66 U	0.0184 U	0.055 J	0.11 J	0.11 J			0.1 J	0.35 U	0.44 U	0.18 J	0.17 J	0.43 U	0.43 U	0.11 J	0.39 U
Dibenzofuran	0.033 U	0.017 J	0.011 J						0.35 U	0.44 U	0.049 J	0.047 J	0.43 U	0.43 U	0.43 U	0.39 U
Diethylphthalate	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Dimethylphthalate	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Di-n-butylphthalate	0.34	0.35	0.26						0.35 U	0.44 U	0.043 J	0.053 J	0.43 U	0.43 U	0.43 U	0.39 U
Di-n-octylphthalate	0.033 U	0.00754 U	0.00125 U						0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Fluoranthene	0.16	1	0.61	0.84	0.86	0.37 J	0.33 J	0.53	0.42	0.75	1.2	1.2	0.46	0.41 J	1.1	0.45
Fluorene	0.033 U	0.045	0.026 J						0.35 U	0.052 J	0.092 J	0.085 J	0.43 U	0.43 U	0.055 J	0.39 U
Hexachlorobenzene	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Indeno(1,2,3-cd)pyrene	0.086 J	0.39 J	0.2	0.28 J	0.31 J	0.23 J	0.15 J	0.29 J	0.21 J	0.4 J	0.7	0.59	0.3 J	0.26 J	0.42 J	0.24 J
Isophorone	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Naphthalene	0.033 U	0.019 J	0.0099 J	0.1 J	0.12 J	0.13 J		0.16 J	0.35 U	0.085 J	0.16 J	0.14 J	0.11 J	0.15 J	0.065 J	0.044 J
Nitrobenzene	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Pentachlorophenol	0.033 U	0.00602 U	0.00653 U						1.8 U	2.2 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	1.9 U
Phenanthrene	0.056	0.49	0.3	0.61	0.51	0.23 J	0.15 J	0.46	0.28 J	0.5	0.94	1	0.28 J	0.26 J	0.7	0.33 J
Phenol	0.033 U								0.35 U	0.44 U	0.42 U	0.4 U	0.43 U	0.43 U	0.43 U	0.39 U
Pyrene	0.16 J	0.95	0.5	0.98	0.97	0.46	0.35 J	0.75	0.55	0.81	1.4	1.5	0.55	0.58	1.1	0.73
Metals (mg/kg)																
Aluminum	12700	8460		6580	4400	5690	7750	5740	8380	5210	5130	4490	5410	4780	4520	4800
Antimony	0.73	6.3		1.8 N	2.6 N	1.9 N	1 N	2.1 N	0.48 BN	3.7 N	1.3 N	0.98 N	0.96 N	0.96 N	0.71 N	0.35 N
Arsenic	4	6.7		5.5	6.7	6.8	5.7	7.3	4.4	5.7	9.5	7.4	7.8	6.5	6.2	2.8
Barium	256	449		192	283	258	110	316	69.4	133	232	186	185	241	77.7	99.6
Beryllium	0.19 J	0.0267 U		0.43 B	0.37 B	0.43 B	0.37 B	0.46 B	0.4 B	0.3 B	0.42 B	0.33 B	0.54 B	0.33 B	0.23 B	0.19 B
Cadmium	1.4	2.4		1	0.92	1.1		0.54 B	0.16 B	1.6	1.5	1.3	0.7	0.93	1	0.65
Calcium	3810	13100		6750 X	4890 X	6590 X	2980 X	5750 X	1800	22500	4530	22700	15300	5390	10800	7500
Chromium	19	30		18.8 X	23.4 X	27.8 X	21.3 X	26.1 X	17.8	17	26.7	22.8	17.9	20.8	14.6	11.7

Table E-2
Area 1 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-10 Ad2004- SS-10-SH 6/21/2004 0-1 ft	B-11 Ad2004-SS- 11-SH 6/21/2004 0-1 ft	B-11 Ad2004-SS- B11-SH 8/26/2004 0-1 ft	FLA-09 FLA-SB- 09-01 8/1/1998 0-0_5 ft	FLA-10 FLA-SB-10- 01 8/1/1998 0-0_5 ft	FLA-11 FLA-SB- 11-01 8/1/1998 0-0_5 ft	FLA-12 FLA-SB- 12-01 8/1/1998 0-0_5 ft	FLA-13 FLA-SB- 13-01 8/1/1998 0-0_5 ft	FLA-46 FLA-SS- 46-01 7/1/2000 0-0_17 ft	FLA-47 FLA-SS- 47-01 7/1/2000 0-0_17 ft	FLA-48 FLA-SS- 48-01 7/1/2000 0-0_17 ft	FLA-48 FSS-SS- 48-22 7/1/2000 0-0_17 ft	FLA-49 FLA-SS- 49-01 7/1/2000 0-0_17 ft	FLA-50 FLA-SS- 50-01 7/1/2000 0-0_17 ft	FLA-51 FLA-SS- 51-01 7/1/2000 0-0_17 ft	FLA-52 FLA-SS- 52-01 7/1/2000 0-0_17 ft
Cobalt	7.4	8.2		5.7 B	5.4 B	6.4	7.1	6.7	6.2	5.3 B	7.5	5.2 B	4.8 B	5.5 B	3.7 B	4.2 B
Copper	36	346		108	198	115	30.1	103	49.9 E	157 E	156 E	122 E	72.9 E	87.9 E	38.3 E	34 E
Iron	16700	28600		26700	26400	34300	16100	27400	14000	18200	23500	20100	31800	20500	10600	10800
Lead	1540	1160		352	566	700	222	743	168 N	649 N	595 N	483 N	448 N	550 N	236 N	252 N
Magnesium	2960	4280		2960 N	2500 N	3740 N	2770 N	2900 N	2440	4750	2460	13100	3590	1970	3390	4050
Manganese	536	379		276	238	259	296	250	212 N	454 N	300 N	216 N	223 N	231 N	271 N	240 N
Mercury	2.4	0.57		1.5	1.3	0.95	0.72	1.1	0.99	0.52	0.92	0.82	0.63	0.74	0.69	0.25
Mercury, Inorganic Salts	2.4	0.57		1.5	1.3	0.95	0.72	1.1	0.99	0.52	0.92	0.82	0.63	0.74	0.69	0.25
Nickel	24 J	26 J		17.2	19.6	21.6	20.1	21.3	15	21.5	22.2	17.3	19	20.3	16	12.8
Potassium	1310 J	1380 J		872 E	756 E	1030 E	1700 E	867 E	1180	1580	885	795	1070	892	716	1170
Selenium	0.67 J	0.7 J		0.25 B		0.3 B			0.39 B	0.41 B	0.62	0.56 B	0.52 B	0.8	1.1	0.63
Silver	0.362 U	0.66 J			0.47 B	0.55 B	0.18 B	0.23 B	0.19 U	0.19 U	0.57 B	0.3 B	0.19 U	0.19 U	0.19 U	0.19 U
Sodium	80	111		198	172	214	138	177	148	201	188	168	137	165	143	120 B
Thallium	0.14 J	0.15 J			0.11 B	0.15 B	0.18 B	0.13 B	0.17 U	0.2 U	0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.18 U
Vanadium	24 J	30 J		25.2	21.2	23.7	33	24	21.5	19.9	22.1	18.4	28.3	20	24.6	18.5
Zinc	480	564		325	494	488	148	386	101	355	458	379	295	369	230	340

B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).
E - Reported value is estimated due to interference.
J - Value is estimated
N - Spiked sample recovery was not within normal limits
U - Value is not detected

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/11/11

mg/kg - milligrams per kilograms

Table E-3
Area 2 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	624-SS-01 624-SS-01-01 8/26/1998 0-0_5 ft	624-SS-02 624-SS-02-01 8/26/1998 0-0_5 ft	624-SS-03 624-SS-03-01 8/26/1998 0-0_5 ft	624-SS-04 624-SS-04-01 8/26/1998 0-0_5 ft	624-SS-05 624-SS-05-01 8/26/1998 0-0_5 ft	624-SS-06 624-SS-06-01 8/26/1998 0-0_5 ft	624-SS-53 624-SS-53-01 7/22/2000 0-0_17 ft	624-SS-54 624-SS-54-01 7/22/2000 0-0_17 ft	AI2-101 AI2-101(0-2)" 5/13/2011 0-0_17 ft	AI2-102 AI2-102(0-2)" 5/13/2011 0-0_17 ft	AI2-103 AI2-103(0-2)" 5/13/2011 0-0_17 ft	AI2-104 AI2-104(0-2)" 5/13/2011 0-0_17 ft	AI2-105 AI2-105(0-2)" 5/13/2011 0-0_17 ft	AI2-106 AI2-106(0-2)" 5/13/2011 0-0_17 ft	AI2-107 AI2-107(0-2)" 5/11/2011 0-0_17 ft	AI2-108 AI2-108(0-2)" 5/12/2011 0-0_17 ft	AI2-109 AI2-109(0-2)" 5/11/2011 0-0_17 ft	AI2-110 AI2-110(0-2)" 5/12/2011 0-0_17 ft	
Semivolatile Organics (mg/kg)																			
1,2-Dichlorobenzene																			
1-Methylnaphthalene									0.0119 J	0.0027 U	0.01 J	0.0066 J	0.0023 J	0.024 U	0.029 U	0.0021 J	0.0038 J	0.037 U	
2,4,5-Trichlorophenol																			
2,4-Dichlorophenol																			
2,4-Dinitrophenol																			
2,6-Dinitrotoluene																			
2-Chlorophenol																			
2-Methylnaphthalene									0.0138 J	0.0027 UJ	0.016 J	0.0076 J	0.0043 J	0.024 UJ	0.029 U	0.0033 J	0.0053 J	0.037 U	
2-Methylphenol																			
2-Nitroaniline																			
2-Nitrophenol																			
3,3'-Dichlorobenzidine																			
3-Nitroaniline																			
4-Chloro-3-methylphenol																			
4-Chloroaniline																			
4-Methylphenol																			
4-Nitrophenol																			
Acenaphthene									0.011 J	0.009 J	0.015 J	0.0079 J	0.0037 J	0.024 U	0.029 U	0.0038 J	0.0011 J	0.037 U	
Acenaphthylene									0.069	0.024	0.12	0.026	0.056	0.031 J	0.075 J	0.047	0.01	0.062 U	
Anthracene									0.061	0.038	0.098	0.041	0.034	0.022 J	0.064 J	0.055	0.011	0.035 J	
Benzo(a)anthracene									0.27	0.18	0.44	0.18	0.19	0.11 J	0.23	0.031	0.042	0.16 J	
Benzo(a)pyrene									0.33	0.2	0.52	0.22	0.23	0.12 J	0.27	0.041	0.048	0.24 J	
Benzo(b)fluoranthene									0.32	0.19	0.48	0.21	0.23	0.035 J	0.43	0.08	0.086	0.37	
Benzo(ghi)perylene									0.4	0.21	0.59	0.26	0.26	0.18	0.21	0.081	0.042	0.19 J	
Benzo(k)fluoranthene									0.17 J	0.11 J	0.32 J	0.14 J	0.073 J	0.047 J	0.049 U	0.0018 U	0.0018 U	0.062 U	
Bis(2-Ethylhexyl)phthalate																			
Butylbenzylphthalate																			
Carbazole																			
Chrysene									0.36	0.21	0.46	0.24	0.21	0.15 J	0.24	0.044	0.053	0.21 J	
Dibenz(a,h)anthracene									0.093	0.052	0.13	0.066	0.065	0.027 J	0.058 U	0.013	0.0078	0.074 U	
Dibenzofuran																			
Diethylphthalate																			
Dimethylphthalate																			
Di-n-butylphthalate																			
Di-n-octylphthalate																			
Fluoranthene									0.53	0.36	0.81	0.44	0.34	0.22	0.39	0.074	0.092	0.32	
Fluorene									0.015 J	0.01 J	0.021	0.0096 J	0.0062 J	0.04 U	0.049 U	0.0045 J	0.0016 J	0.062 U	
Hexachlorobenzene																			
Indeno(1,2,3-cd)pyrene									0.3	0.16	0.44	0.2	0.2	0.11 J	0.18 J	0.053	0.034	0.18 J	
Isophorone																			
Naphthalene									0.02 J	0.012 J	0.032 J	0.011 J	0.01 J	0.024 UJ	0.029 U	0.0081	0.0056 J	0.037 U	
Nitrobenzene																			
Pentachlorophenol																			
Phenanthrene									0.18 J	0.16 J	0.26 J	0.21 J	0.074 J	0.087 J	0.14 J	0.028 J	0.032	0.14 J	
Phenol																			
Pyrene									0.42 J	0.3 J	0.62 J	0.29 J	0.26 J	0.15 J	0.34	0.078	0.062	0.32	
Total Organic Carbon																			
Pesticides (mg/kg)																			
4,4'-DDD	U	U	U	U	U	U	0.071 P	0.02 P											
4,4'-DDE	U	U	U	U	U	U	0.044 P	0.022 P											
4,4'-DDT	1	1	0.79	0.2	0.65	0.8	0.47 EP	0.24 EP											
Aldrin	U	U	U	U	U	U	0.0027 U	0.0021 U											
Alpha-BHC	U	U	U	U	U	U	0.0027 U	0.0021 U											
Alpha-Chlordane	U	U	U	U	U	U	0.0027 U	0.0021 U											
Beta-BHC	U	U	U	U	U	U	0.0027 U	0.0021 U											
Delta-BHC	U	U	U	U	U	U	0.0027 U	0.0021 U											
Dieldrin	U	U	U	U	U	U	0.0055 U	0.0043 U											
Endosulfan I	U	U	U	U	U	U	0.0027 U	0.0021 U											
Endosulfan II	U	U	U	U	U	U	0.0055 U	0.0043 U											

Table E-3
Area 2 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	624-SS-01 624-SS-01-01 8/26/1998 0-0_5 ft	624-SS-02 624-SS-02-01 8/26/1998 0-0_5 ft	624-SS-03 624-SS-03-01 8/26/1998 0-0_5 ft	624-SS-04 624-SS-04-01 8/26/1998 0-0_5 ft	624-SS-05 624-SS-05-01 8/26/1998 0-0_5 ft	624-SS-06 624-SS-06-01 8/26/1998 0-0_5 ft	624-SS-53 624-SS-53-01 7/22/2000 0-0_17 ft	624-SS-54 624-SS-54-01 7/22/2000 0-0_17 ft	AI2-101 AI2-101(0-2)" 5/13/2011 0-0_17 ft	AI2-102 AI2-102(0-2)" 5/13/2011 0-0_17 ft	AI2-103 AI2-103(0-2)" 5/13/2011 0-0_17 ft	AI2-104 AI2-104(0-2)" 5/13/2011 0-0_17 ft	AI2-105 AI2-105(0-2)" 5/13/2011 0-0_17 ft	AI2-106 AI2-106(0-2)" 5/13/2011 0-0_17 ft	AI2-107 AI2-107(0-2)" 5/11/2011 0-0_17 ft	AI2-108 AI2-108(0-2)" 5/12/2011 0-0_17 ft	AI2-109 AI2-109(0-2)" 5/11/2011 0-0_17 ft	AI2-110 AI2-110(0-2)" 5/12/2011 0-0_17 ft	
Endosulfan sulfate	U	U	U	U	U	U	0.0055 U	0.0043 U											
Endrin	U	U	U	U	U	U	0.0055 U	0.0043 U											
Endrin aldehyde	U	U	U	U	U	U	0.0082 P	0.0043 U											
Endrin ketone	U	U	U	U	U	U	0.032 P	0.013 P											
Gamma-BHC	U	U	U	U	U	U	0.0052 P	0.0032											
Gamma-Chlordane	U	U	U	U	U	U	0.0087 P	0.0021 U											
Heptachlor	U	U	U	U	U	U	0.0027 U	0.0021 U											
Heptachlor epoxide	U	U	U	U	0.12	U	0.031	0.016											
Methoxychlor	U	U	U	U	U	U	0.027 U	0.021 U											
Toxaphene	U	U	U	U	U	U	0.27 U	0.21 U											
Metals (mg/kg)																			
Aluminum									10800	8450	8860	8860	8190	7340	5890	4070	4800	7440	
Antimony									0.46 J	1.1 J	0.57 J	0.63 J	0.47 UJ	0.37 J	0.61 J	5.7 J	0.63 J	0.57 J	
Arsenic									5.5	6.5	6	6.4	4.7	4.4	3.3	11.7	4.2	5.5	
Barium									113	87.5	95.2	82.5	68.4	85.7	87.9	71.4	64.9	113	
Beryllium									0.56	0.61	0.75	0.66	0.58	0.5	0.37 J	0.51	0.48	0.57 J	
Cadmium									1.1	0.69	0.68	0.52 J	0.48 J	0.63	1.9	0.65 J	0.29 J	0.55 J	
Calcium									7440	6300	3970	3330	2740	5020	14600	2220	2110	5050	
Chromium									21.4	17.7	18.4	17.3	19.9	14	23.7	9.8	10.2	19	
Cobalt									9.5	7.7	5.8 J	5.6 J	6.3	6.2	5.2 J	6.8	6.6	5.5 J	
Copper									53.4	46.6	35	31.8	26.2	40.3	46.9 J	11500 J	75.9 J	46.6	
Elemental Mercury															0.0003 U		0.0004 U		
Iron									19400	18600	13500	13600	14100	13300	13200	10000	11100	14900	
Lead									223	180	195	295	73.2	170	334 J	418	214 J	315	
Magnesium									4490	2520	2260	2000	2540	2690	5140	916	1260	2130	
Manganese									391	406	524	415	380	265	332 J	84.8 J	221 J	401	
Mercury									0.41	0.32	0.5	0.34	0.3	1.1	0.323 J		2.08 J		
Mercury, Inorganic Salts																			
Methyl mercury															0.00602 J		0.00486 J		
Nickel									23.1	22.7	20.5	18.7	21.3	16.6	17.3	18.8	17.6	18.6	
Potassium									1050	782	652 J	698	1190	791	928	403 J	511 J	859	
Selenium									0.99 U	0.75 J	0.62 J	0.47 J	0.82 U	0.73 U	0.8 J	1.5	0.63 J	0.68 J	
Silver									0.31 J	0.45 J	0.13 U	0.44 J	0.12 U	0.085 J	0.12 J	0.34 J	0.22 J	0.15 U	
Sodium									383 J	91.3 J	65.5 J	67.6 J	77.3 J	290 J	41.7 J	164 J	53.8 J	54.3 J	
Thallium									1.4 U	1.3 U	1.3 U	1.2 U	1.2 U	1 U	1.4 U	0.95 U	1.1 U	1.5 U	
Vanadium									61.7	36.8	33.6	35.1	34.3	37.9	23.9	21	26.3	30.6	
Zinc									301	264	149	187	92.6	145	172 J	256	104 J	197	

Table E-3
Area 2 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI2-111 AI2-111(0- 2) 5/11/2011 0-0_17 ft	AI2-112 AI2-112(0- 2) 5/11/2011 0-0_17 ft	B-09 Ad2004- SS-9-SH 6/21/2004 0-1 ft	SB-04 FSS-SB- 04-01 8/1/1998 0-0_5 ft	SB-05 FSS-SB- 05-01 8/1/1998 0-0_5 ft	SS-18 FSS-SS- 18-01 7/1/2000 0-0_17 ft	SS-19 FSS-SS- 19-01 7/1/2000 0-0_17 ft	SS-20 FSS-SS- 20-01 7/1/2000 0-0_17 ft	SS-21 FSS-SS- 21-01 7/1/2000 0-0_17 ft	SS-22 FSS-SS- 22-01 7/1/2000 0-0_17 ft	SS-23 FSS-SS- 23-01 7/1/2000 0-0_17 ft	SS-24 FSS-SS- 24-01 7/1/2000 0-0_17 ft	SS-25 FSS-SS- 25-01 7/1/2000 0-0_17 ft	SS-26 FSS-SS- 26-01 7/1/2000 0-0_17 ft	SS-27 FSS-SS- 27-01 7/1/2000 0-0_17 ft	SS-28 FSS-SS- 28-01 7/1/2000 0-0_17 ft	SS-29 FSS-SS- 29-01 7/1/2000 0-0_17 ft	
Semivolatile Organics (mg/kg)																		
1,2-Dichlorobenzene			0.033 U			0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	
1-Methylnaphthalene	0.011 J	0.014 J																
2,4,5-Trichlorophenol			0.033 U			1.9 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U	
2,4-Dichlorophenol			0.033 U			0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	
2,4-Dinitrophenol			0.033 U			2.1 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U	
2,6-Dinitrotoluene			0.033 U			0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	
2-Chlorophenol			0.033 U			0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	
2-Methylnaphthalene	0.011 J	0.019	0.033 U	0.11 J	0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.058 J	
2-Methylphenol			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
2-Nitroaniline			0.033 U		2.1 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U		
2-Nitrophenol			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
3,3'-Dichlorobenzidine			2 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
3-Nitroaniline			0.033 U		2.1 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U		
4-Chloro-3-methylphenol			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
4-Chloroaniline			0.17 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
4-Methylphenol			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.055 J	
4-Nitrophenol			0.066 U		2.1 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U		
Acenaphthene	0.0064 J	0.0083 J	0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Acenaphthylene	0.024	0.037	0.033 U		0.19 J	0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.059 J
Anthracene	0.025	0.038	0.033 U		0.24 J	0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.19 J
Benzo(a)anthracene	0.1	0.13	0.031 J	0.082 J	1.5	0.12 J	0.12 J	0.12 J	0.48	0.16 J	0.23 J	0.16 J	0.29 J	0.3 J	0.099 J	0.32 J	1.6	
Benzo(a)pyrene	0.12	0.14	0.038 J	0.09 J	1.6	0.14 J	0.13 J	0.11 J	0.62	0.19 J	0.23 J	0.19 J	0.3 J	0.34 J	0.11 J	0.38 J	1.5	
Benzo(b)fluoranthene	0.19	0.24	0.037 J	0.14 J	2.2	0.23 J	0.22 J	0.18 J	0.98	0.29 J	0.36	0.32 J	0.47	0.6	0.19 J	0.63	2.2	
Benzo(ghi)perylene	0.095	0.12	0.033 U	0.1 J	1.2	0.11 J	0.064 J	0.058 J	0.45	0.12 J	0.14 J	0.19 J	0.31 J	0.093 J	0.25 J	1		
Benzo(k)fluoranthene	0.0039 U	0.0042 U	0.019 J		0.92	0.072 J	0.08 J	0.079 J	0.34 J	0.1 J	0.15 J	0.094 J	0.17 J	0.21 J	0.082 J	0.22 J	0.68	
Bis(2-Ethylhexyl)phthalate			0.026 J	0.087 J	0.35 J	0.13 J	0.1 J	17 E	0.13 J	0.2 J	0.049 J	0.23 J	0.2 J	0.18 J	0.15 J	0.3 J	9.8 E	
Butylbenzylphthalate			0.012 J		0.15 J	0.043 J	0.4 U	0.088 J	0.37 U	0.067 J	0.34 U	0.11 J	0.069 J	0.051 J	0.044 J	0.069 J	0.3 J	
Carbazole			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.1 J	
Chrysene	0.13	0.16	0.036 J	0.12 J	1.9	0.15 J	0.16 J	0.38 U	0.54	0.22 J	0.28 J	0.23 J	0.38 J	0.44	0.16 J	0.46	1.5	
Dibenz(a,h)anthracene	0.025	0.032	0.66 U		0.41 U	0.4 U	0.38 U	0.15 J	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.28 J	
Dibenzofuran			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Diethylphthalate			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Dimethylphthalate			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Di-n-butylphthalate			0.34		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.066 J	
Di-n-octylphthalate			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Fluoranthene	0.21	0.27	0.039	0.13 J	2	0.19 J	0.27 J	0.2 J	0.75	0.32 J	0.46	0.26 J	0.59	0.6	0.21 J	0.68	2	
Fluorene	0.0069 J	0.012 J	0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Hexachlorobenzene			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Indeno(1,2,3-cd)pyrene	0.078	0.097	0.033 U	0.097 J	1.3	0.11 J	0.075 J	0.068 J	0.48	0.14 J	0.16 J	0.14 J	0.23 J	0.35 J	0.087 J	0.28 J	1.2	
Isophorone			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Naphthalene	0.01 J	0.019	0.033 U	0.11 J	0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U	0.19 J	
Nitrobenzene			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Pentachlorophenol			0.033 U		2.1 U	2 U	1.9 U	1.8 U	2 U	1.7 U	2.3 U	2.1 U	2 U	2 U	2.1 U	2.6 U		
Phenanthrene	0.098	0.13	0.021 J	0.1 J	1	0.12 J	0.16 J	0.097 J	0.38	0.19 J	0.3 J	0.16 J	0.44	0.37 J	0.11 J	0.32 J	0.62	
Phenol			0.033 U		0.41 U	0.4 U	0.38 U	0.37 U	0.4 U	0.34 U	0.46 U	0.43 U	0.41 U	0.4 U	0.43 U	0.52 U		
Pyrene	0.17	0.22	0.04 J	0.17 J	2.9	0.29 J	0.27 J	0.24 J	0.81	0.36 J	0.51	0.33 J	0.53	0.59	0.19 J	0.69	2.7	
Total Organic Carbon				44100	57900													
Pesticides (mg/kg)																		
4,4'-DDD																		
4,4'-DDE																		
4,4'-DDT																		
Aldrin																		
Alpha-BHC																		
Alpha-Chlordane																		
Beta-BHC																		
Delta-BHC																		
Dieldrin																		
Endosulfan I																		
Endosulfan II																		

Table E-3
Area 2 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI2-111 AI2-111(0-2) 5/11/2011 0-0_17 ft	AI2-112 AI2-112(0-2) 5/11/2011 0-0_17 ft	B-09 Ad2004- SS-9-SH 6/21/2004 0-1 ft	SB-04 FSS-SB- 04-01 8/1/1998 0-0_5 ft	SB-05 FSS-SB- 05-01 8/1/1998 0-0_5 ft	SS-18 FSS-SS- 18-01 7/1/2000 0-0_17 ft	SS-19 FSS-SS- 19-01 7/1/2000 0-0_17 ft	SS-20 FSS-SS- 20-01 7/1/2000 0-0_17 ft	SS-21 FSS-SS- 21-01 7/1/2000 0-0_17 ft	SS-22 FSS-SS- 22-01 7/1/2000 0-0_17 ft	SS-23 FSS-SS- 23-01 7/1/2000 0-0_17 ft	SS-24 FSS-SS- 24-01 7/1/2000 0-0_17 ft	SS-25 FSS-SS- 25-01 7/1/2000 0-0_17 ft	SS-26 FSS-SS- 26-01 7/1/2000 0-0_17 ft	SS-27 FSS-SS- 27-01 7/1/2000 0-0_17 ft	SS-28 FSS-SS- 28-01 7/1/2000 0-0_17 ft	SS-29 FSS-SS- 29-01 7/1/2000 0-0_17 ft	
Endosulfan sulfate																		
Endrin																		
Endrin aldehyde																		
Endrin ketone																		
Gamma-BHC																		
Gamma-Chlordane																		
Heptachlor																		
Heptachlor epoxide																		
Methoxychlor																		
Toxaphene																		
Metals (mg/kg)																		
Aluminum	6320	6290	14400	6300	5930	7080 E	8840	7740	6850	6420	48	5700	7050	6640	5860	5290	6620	
Antimony	0.87 J	0.58 J	0.66	1.8 N	1 N	0.57 BN	0.67 BN	1 N	0.88 N	0.59 BN	1.7 N	0.55 BN	0.74 BN	0.34 BN	1 N	1.2 N		
Arsenic	5.1	5.2	3	3	3.8	2.7	3.6	4.5	4.6	4.3	5.6	3.9	5.4	6.3	4	6	6.9	
Barium	80.5	138	97	295	73.4	138	132	124	136	92.9	86.9	75.2	92.2	105	70.2	96.7	107	
Beryllium	0.48	0.44 J	0.46 J	0.32 B	0.27 B	0.27 B	0.36 B	0.32 B	0.31 B	0.25 B	0.19 B	0.2 B	0.25 B	0.26 B	0.23 B	0.23 B	0.3 B	
Cadmium	0.71	0.6 J	0.23 J		0.43 B	0.32 B	0.23 B	0.27 B	0.57 B	0.44 B	0.43 B	0.55 B	0.52 B	0.35 B	0.88	0.9		
Calcium	4010	4010	2320	2190 X	13400 X	2020 E	1990	2160	1950	4420	1790	7660	9870	7990	6380	5280	9470	
Chromium	14.6	15.4	19	29.4 X	15.6 X	25.3	22.8	19	22.9	17.9	12.7	13.1	15.1	15.6	12.6	15	17.1	
Cobalt	6	5.7 J	6.8	4.9 B	4.3 B	4.6 B	6.1	6.6	6	5.2 B	4.7 B	3.7 B	5.6 B	5.5 B	4.9 B	4.7 B	3.9 B	
Copper	51.6 J	42.2 J	19	47.3	43.1	43.2 E	50.9	46.2	46	33.7	80.3	29	45.4	53.3	29.6	50.4	44.8	
Elemental Mercury	0.0004 U	0.0004 U																
Iron	12100	13100	15800	12200	15600	13400	15600	16400	15100	13100	19100	13100	17200	15600	13700	12700	12700	
Lead	242 J	278 J	93	494	325	333	344	400	400	148	471	156	191	373	152	469	251	
Magnesium	2430	1770	2370	1740 N	7000 N	1980 E	2550 E	2300 E	2100 E	2260 E	1530 E	3560 E	4800 E	4890 E	3680 E	1960 E	2170 E	
Manganese	259 J	305 J	617	152	265	153	199 N	348 N	220 N	304 N	229 N	296 N	327 N	308 N	332 N	295 N	445 N	
Mercury	1.63 J	0.358 J	0.14	2.3	0.35	0.77	0.85	0.83	0.93	0.48	2.7	0.35	0.89	0.49	0.33	1.8	0.62	
Mercury, Inorganic Salts			0.14	2.3	0.35	0.77	0.85	0.83	0.93	0.48	2.7	0.35	0.89	0.49	0.33	1.8	0.62	
Methyl mercury	0.011 J	0.000737 J																
Nickel	17.4	16.8	17 J	16.5	14.7	15.8	16.7	16.2	16.4	19	12.9	13.8	16.2	16.1	12.5	14.4	16.8	
Potassium	679	786	588 J	515 E	706 E	816	799	722	769	1040	757	854	1230	901	740	830	953	
Selenium	0.77 J	0.65 J	0.52 J	0.4 B	0.27 B	0.65	0.47 B	0.52 B	0.46 B	0.48 B	0.48 B	0.4 B	0.23 B	0.44 B	0.48 B	0.88	0.98	
Silver	0.21 J	0.1 J	0.362 U			0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
Sodium	47.8 J	81.1 J	38 J	152	206	144	224	190	193	206	119	161	243	204	160	153	207	
Thallium	1.2 U	1.2 U	0.15 J			0.14 U	0.18 U	0.17 U	0.17 U	0.17 U	0.15 U	0.2 U	0.2 U	0.18 U	0.18 U	0.19 U	0.24 U	
Vanadium	30.7	28.9	26 J	26.9	25.5	23.8	33.8	28.6	30.5	31.2	21.9	18.5	23.7	21.6	17.7	29.2	28.7	
Zinc	233 J	177 J	69	110	213	111	219 N	163 N	133 N	123 N	207 N	111 N	166 N	208 N	99.1 N	203 N	178 N	

B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).

E - Reported value is estimated due to interference.

J - Value is estimated

N - Spiked sample recovery was not within normal limits

U - Value is not detected

mg/kg - milligrams per kilograms

Prepared By/Date: EYM 10/26/11

Checked By/Date: BJR 11/1/11

Table E-4
Area 3 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI3-101 AI3-101(0-2) 5/10/2011 0-0_17 ft	AI3-102 AI3-102(0-2) 5/10/2011 0-0_17 ft	AI3-103 AI3-103(0-2) 5/10/2011 0-0_17 ft	AI3-104 AI3-104(0-2) 5/10/2011 0-0_17 ft	AI3-105 AI3-105(0-2) 5/10/2011 0-0_17 ft	AI3-106 AI3-106(0-2) 5/11/2011 0-0_17 ft	AI3-107 AI3-107(0-2) 5/11/2011 0-0_17 ft	AI3-108 AI3-108(0-2) 5/10/2011 0-0_17 ft	AI3-109 AI3-109(0-2) 5/10/2011 0-0_17 ft	AI3-110 AI3-110(0-2) 5/11/2011 0-0_17 ft	AI3-111 AI3-111(0-2) 5/10/2011 0-0_17 ft	AI3-112 AI3-112(0-2) 5/10/2011 0-0_17 ft	B-01 Ad2004-SS-1-SH 6/21/2004 0-1 ft	B-02 Ad2004-SS-2-SH 6/21/2004 0-1 ft	B-03 Ad2004-SS-3-SH 6/21/2004 0-1 ft	B-04 Ad2004-SS-4-SH 6/21/2004 0-1 ft	SB-06 FSS-SB-06-01 8/1/1998 0-0_5 ft
Semivolatile Organics (mg/kg)																	
1,2-Dichlorobenzene													0.033 U	0.033 U	0.033 U	0.033 U	
1-Methylnaphthalene	0.011 J	0.0067 J	0.18 J	0.0032 J	0.015	0.015	0.0065 J	0.0065 J	0.0068 J	0.0069 J	0.0087 J	0.0042 J					
2,4,5-Trichlorophenol													0.033 U	0.033 U	0.033 U	0.033 U	
2,4-Dichlorophenol													0.033 U	0.033 U	0.033 U	0.033 U	
2,4-Dinitrophenol													0.033 U	0.033 U	0.033 U	0.033 U	
2,6-Dinitrotoluene													0.033 U	0.033 U	0.033 U	0.033 U	
2-Chlorophenol													0.033 U	0.033 U	0.033 U	0.033 U	
2-Methylnaphthalene	0.013 J	0.0094 J	0.22 J	0.0039 J	0.016 J	0.048	0.009 J	0.0079 J	0.0087 J	0.011	0.015 J	0.0054 J	0.033 U	0.033 U	0.033 U	0.033 U	
2-Methylphenol													0.033 U	0.033 U	0.033 U	0.033 U	
2-Nitroaniline													0.033 U	0.033 U	0.033 U	0.033 U	
2-Nitrophenol													0.033 U	0.033 U	0.033 U	0.033 U	
3,3'-Dichlorobenzidine													2 U	2 U	2 U	2 U	
3-Nitroaniline													0.033 U	0.033 U	0.033 U	0.033 U	
4-Chloro-3-methylphenol													0.033 U	0.0056 J	0.0068 J	0.033 U	
4-Chloroaniline													0.17 U	0.17 U	0.17 U	0.17 U	
4-Methylphenol													0.033 U	0.033 U	0.033 U	0.033 U	
4-Nitrophenol													0.066 U	0.066 U	0.066 U	0.066 U	
Acenaphthene	0.035 J	0.011 J	0.094 J	0.0029 J	0.011 J	0.0058 J	0.006 J	0.0078 UJ	0.016 J	0.0083	0.011 UJ	0.0033 J	0.006 J	0.011 J	0.033 U	0.018 J	
Acenaphthylene	0.028	0.21	0.19 J	0.019	0.098	0.018	0.028 J	0.042 J	0.076	0.079	0.11	0.023	0.0089 J	0.001	0.012 J	0.033 U	0.075 J
Anthracene	0.14 J	0.12 J	0.39 J	0.018 J	0.091 J	0.022	0.034 J	0.041 J	0.1 J	0.059	0.066 J	0.018 J	0.021 J	0.048	0.016 J	0.059	
Benzo(a)anthracene	0.68 J	0.45 J	1.5 J	0.064 J	0.35 J	0.1	0.11	0.17 J	0.39 J	0.22	0.25 J	0.088 J	0.13	0.43	0.12	0.33	0.24 J
Benzo(a)pyrene	0.74 J	0.53 J	1.8 J	0.075 J	0.38 J	0.12	0.14	0.17 J	0.4 J	0.27	0.31 J	0.1 J	0.14 J	0.35	0.12 J	0.29 J	0.26 J
Benzo(b)fluoranthene	1.3 J	0.86 J	2.9 J	0.13 J	0.62 J	0.2	0.21	0.29 J	0.62 J	0.42	0.5 J	0.17 J	0.11 J	0.28	0.099 J	0.28	0.39
Benzo(ghi)perylene	0.68	0.44	1.6	0.07	0.32	0.094	0.13	0.14	0.31	0.23	0.25	0.082	0.11 J	0.26 J	0.097 J	0.23 J	0.22 J
Benzo(k)fluoranthene	0.0039 U	0.002 U	0.21 U	0.0019 U	0.002 U	0.002 U	0.013 U	0.013 U	0.0039 U	0.002 U	0.018 U	0.002 U	0.061 J	0.18 J	0.057 J	0.26 J	0.14 J
Bis(2-Ethylhexyl)phthalate													0.11 J	0.058 J	0.041	0.028 J	0.15 J
Butylbenzylphthalate													0.034	0.016 J	0.016 J	0.033 U	
Carbazole													0.011 J	0.029 J	0.011 J	0.052	
Chrysene	0.74 J	0.49 J	2 J	0.072 J	0.39 J	0.1	0.14	0.18 J	0.39 J	0.22	0.29 J	0.1 J	0.12 J	0.38 J	0.12 J	0.32 J	0.31 J
Dibenz(a,h)anthracene	0.18	0.15	0.25 U	0.017	0.1	0.023	0.027 J	0.039 J	0.037	0.068	0.058 J	0.025	0.036 J	0.14 J	0.033 J	0.1 J	
Dibenzofuran													0.033 U	0.033 U	0.033 U	0.016 J	
Diethylphthalate													0.033 U	0.033 U	0.033 U	0.033 U	
Dimethylphthalate													0.033 U	0.033 U	0.033 U	0.033 U	
Di-n-butylphthalate													0.049	0.053	0.036	0.028 J	
Di-n-octylphthalate													0.01 J	0.033 U	0.033 U	0.033 U	
Fluoranthene	1.9 J	0.94 J	3.3 J	0.13 J	0.67 J	0.18	0.2	0.3 J	0.78 J	0.33	0.34 J	0.16 J	0.19	0.59	0.19	0.76	0.34 J
Fluorene	0.044 J	0.021 J	0.14 J	0.0038 J	0.015 J	0.0055 J	0.0082 J	0.01 J	0.024 J	0.011	0.018 UJ	0.0043 J	0.033 U	0.012 J	0.033 U	0.021 J	
Hexachlorobenzene													0.033 U	0.033 U	0.033 U	0.033 U	
Indeno(1,2,3-cd)pyrene	0.62	0.47	1.2	0.07	0.31	0.083	0.1	0.13	0.29	0.21	0.21	0.075	0.14 J	0.35 J	0.12 J	0.24 J	0.23 J
Isophorone													0.033 U	0.033 U	0.033 U	0.033 U	
Naphthalene	0.021 J	0.015 J	0.21 J	0.0052 J	0.015 J	0.019	0.0075 U	0.0078 UJ	0.014 J	0.0095	0.019 J	0.0072 J	0.00589 U	0.011 J	0.033 U	0.011 J	
Nitrobenzene													0.033 U	0.033 U	0.033 U	0.033 U	
Pentachlorophenol													0.033 U	0.033 U	0.033 U	0.033 U	
Phenanthrene	0.94 J	0.35 J	1.9 J	0.057 J	0.28 J	0.084	0.096	0.14 J	0.36 J	0.11	0.18 J	0.058 J	0.092	0.17	0.082	0.49	0.22 J
Phenol													0.033 U	0.033 U	0.033 U	0.033 U	
Pyrene	1.3 J	0.74 J	3.1 J	0.1 J	0.52 J	0.17	0.19	0.25 J	0.61 J	0.28	0.34 J	0.13 J	0.2 J	0.56 J	0.2 J	0.58 J	0.46
Total Organic Carbon																	19200
Metals (mg/kg)																	
Aluminum	10300	9890	38200	9260	11100	7660	7840	10700	9690	7480	9400	11900	10400	9820	15500	15100	6470
Antimony	0.53 J	0.47 UJ	2.1 J	0.45 UJ	0.45 J	0.46 J	0.54 J	0.41 J	0.44 UJ	0.56 J	0.41 J	0.22 J	0.68	0.59	0.7	0.63	0.65 N
Arsenic	6.1	6.3	53.7	6	132	5.6	6.6	7.3 J	4.6	6.3	22.5	8.2	5.3	4.2	5.4	3.8	3.6
Barium	41.4	48	390	47.8	70.5	51.7	55.7	44.7	47.4	52.8	56.8	52.4	56	47	37	45	47.2
Beryllium	0.65	0.71	2.7	0.62	0.8	0.48	0.56 J	0.8	0.68	0.48 J	0.6	0.86	0.046 J	0.087 J	0.097 J	0.13 J	0.29 B
Cadmium	0.12 J	0.14 J	8.6	0.13 J	0.27 J	0.33 J	0.75	0.12 J	0.22 J	0.26 J	0.59	0.066 J	0.99	0.35 J	0.12 J	0.16 J	

Table E-4
Area 3 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI3-101 AI3-101(0-2) 5/10/2011 0-0_17 ft	AI3-102 AI3-102(0-2) 5/10/2011 0-0_17 ft	AI3-103 AI3-103(0-2) 5/10/2011 0-0_17 ft	AI3-104 AI3-104(0-2) 5/10/2011 0-0_17 ft	AI3-105 AI3-105(0-2) 5/10/2011 0-0_17 ft	AI3-106 AI3-106(0-2) 5/11/2011 0-0_17 ft	AI3-107 AI3-107(0-2) 5/11/2011 0-0_17 ft	AI3-108 AI3-108(0-2) 5/10/2011 0-0_17 ft	AI3-109 AI3-109(0-2) 5/10/2011 0-0_17 ft	AI3-110 AI3-110(0-2) 5/11/2011 0-0_17 ft	AI3-111 AI3-111(0-2) 5/10/2011 0-0_17 ft	AI3-112 AI3-112(0-2) 5/10/2011 0-0_17 ft	B-01 Ad2004-SS-1-SH 6/21/2004 0-1 ft	B-02 Ad2004-SS-2-SH 6/21/2004 0-1 ft	B-03 Ad2004-SS-3-SH 6/21/2004 0-1 ft	B-04 Ad2004-SS-4-SH 6/21/2004 0-1 ft	SB-06 FSS-SB-06-01 8/1/1998 0-0_5 ft
Calcium	468 J	1020 J	15000 J	692 J	852 J	2520	2490	415 J	962 J	2320	2610 J	530 J	3660	2180	430	552	3500
Chromium	23.8	20.1	136	17	56.4	20.4	23.3	18.5 J	21	24.4	18.8	23.3	20	15	21	21	17.1
Cobalt	5.2 J	5.6 J	23.7 J	5.1 J	5.3 J	5.9	5.4 J	3.7 J	6.5	5.5 J	3.9 J	5.8 J	6.7	5.4	6.4	8.1	5.4
Copper	28.4	23.8	268	19.5	85	31.7 J	37.8 J	34.2 J	20.6	27.8 J	36.3	28.9	38	50	32	28	26.5
Elemental Mercury				0.0003 U	0.0004 U						0.0003 U	0.0003 U					
Iron	16500	15000	62600	13900	15300	15000	15400	13400 J	14600	14600	13400	16100	18400	13300	17900	21500	13700
Lead	86.7 J	73.3 J	2140 J	102 J	170 J	174 J	411 J	111 J	76.8 J	228 J	150 J	99.6 J	286	120	51	45	443
Magnesium	2490 J	2470 J	9140 J	2090 J	2120 J	2400	2260	2050 J	2550 J	2250	1800 J	2620 J	3110	2710	2730	3500	2720 X
Manganese	206	272	1140	224	244	275 J	290 J	170 J	335	290 J	222	340	317	183	306	266	269
Mercury				0.25 J	0.673 J						0.378 J	0.885 J	0.56	2	0.52	0.24	0.48
Mercury, Inorganic Salts													0.56	2	0.52	0.24	0.48
Methyl mercury				0.00106 J	0.00079 J						0.00226 J	0.00205 J					
Nickel	19.6	18.2	78.5	13.9	17	17.7	18.1	14.9 J	19.1	16.3	13.6	18.4	17 J	13 J	17 J	18 J	10.7
Potassium	839	604	3950	622	558 J	1230	924	406 J	691	1120	553	677	1390 J	741 J	696 J	1110 J	925
Selenium	0.47 J	0.4 J	3.2 J	0.79 U	0.57 J	0.8 U	1 U	0.9 J	0.78 U	0.45 J	0.48 J	0.73 J	0.37 J	0.37 J	0.93 J	0.43 J	
Silver	0.12 U	0.12 U	0.83 J	0.11 U	0.12 U	0.12 J	0.15 U	0.14 U	0.11 U	0.48 J	0.097 U	0.12 U	0.362 U	0.362 U	0.362 U	0.362 U	
Sodium	46 J	54.5 J	932 J	23.8 J	38.7 J	15.5 J	55.3 J	45.1 J	51.4 J	33.6 J	554	56.8 J	43 J	60	31.4 U	31.4 U	144
Thallium	1.2 U	1.2 U	5.9 U	1.1 U	1.2 U	1.1 U	1.5 U	1.4 U	1.1 U	1.2 U	0.97 U	1.2 U	0.14 J	0.13 J	0.2 J	0.16 J	0.15 B
Vanadium	47	30.6	154	24	32.5	25.3	24.7	35.2 J	39.8	23.1	33.3	35.4	26 J	26 J	27 J	29 J	22.8
Zinc	54.4 J	68.9 J	1370 J	69.8 J	112 J	168 J	219 J	50.3 J	69.2 J	110 J	274 J	53.3 J	173	91	43	55	114

Table E-4
Area 3 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	SB-07 FSS-SB- 07-01 0-0_5 ft	SS-30 FSS-SS- 30-01 7/1/2000 0-0_17 ft	SS-31 FSS-SS- 31-01 7/1/2000 0-0_17 ft	SS-32 FSS-SS- 32-01 7/1/2000 0-0_17 ft	SS-33 FSS-SS- 33-01 7/1/2000 0-0_17 ft	SS-34 FSS-SS- 34-01 7/1/2000 0-0_17 ft	SS-35 FSS-SS- 35-01 7/1/2000 0-0_17 ft	SS-36 FSS-SS- 36-01 7/1/2000 0-0_17 ft	SS-37 FSS-SS- 37-01 7/1/2000 0-0_17 ft	SS-38 FSS-SS- 38-01 7/1/2000 0-0_17 ft	SS-39 FSS-SS- 39-01 7/1/2000 0-0_17 ft	SS-40 FSS-SS- 40-01 7/1/2000 0-0_17 ft	SS-45 FSS-SS- 45-01 7/1/2000 0-0_17 ft
Semivolatile Organics (mg/kg)													
1,2-Dichlorobenzene		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
1-Methylnaphthalene													
2,4,5-Trichlorophenol		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
2,4-Dinitrophenol		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,6-Dinitrotoluene		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
2-Chlorophenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
2-Methylnaphthalene		0.045 J	0.11 J	0.043 J	0.036 J	0.15 J	0.37 U	0.047 J	0.37 U	0.38 U	0.37 U	0.041 J	0.39 U
2-Methylphenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
2-Nitroaniline		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Nitrophenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
3-Nitroaniline		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chloro-3-methylphenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
4-Chloroaniline		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
4-Methylphenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
4-Nitrophenol		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthene		0.35 U	0.14 J	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Acenaphthylene		0.055 J	0.073 J	0.11 J	0.12 J	0.043 J	0.043 J	0.061 J	0.079 J	0.38 U	0.29 J	0.39 U	0.39 U
Anthracene		0.056 J	0.39	0.081 J	0.071 J	0.064 J	0.053 J	0.1 J	0.069 J	0.38 U	0.18 J	0.04 J	0.096 J
Benzo(a)anthracene	0.44	0.25 J	0.63	0.3 J	0.26 J	0.12 J	0.25 J	0.5	0.73	0.15 J	0.86	0.26 J	0.42
Benzo(a)pyrene	0.46	0.26 J	0.55	0.37	0.36 J	0.12 J	0.26 J	0.48	0.7	0.16 J	0.91	0.26 J	0.48
Benzo(b)fluoranthene	0.83	0.43	0.69	0.59	0.5	0.22 J	0.45	0.83	1.1	0.27 J	1.4	0.46	0.76
Benzo(ghi)perylene	0.21 J	0.17 J	0.27 J	0.26 J	0.25 J	0.085 J	0.19 J	0.26 J	0.31 J	0.078 J	0.5	0.15 J	0.31 J
Benzo(k)fluoranthene	0.26 J	0.16 J	0.26 J	0.17 J	0.19 J	0.064 J	0.16 J	0.32 J	0.42	0.12 J	0.54	0.16 J	0.26 J
Bis(2-Ethylhexyl)phthalate	0.27 J	0.21 J	0.2 J	0.19 J	0.13 J	0.059 J	0.11 J	0.77	0.21 J	0.2 J	0.87	0.83	0.12 J
Butylbenzylphthalate		0.099 J	0.081 J	0.076 J	0.15 J	0.37 U	0.37 U	0.15 J	0.073 J	0.07 J	0.37 U	0.056 J	0.39 U
Carbazole		0.35 U	0.17	0.37 U	0.36 U	0.37 U	0.37 U	0.075 J	0.11 J	0.38 U	0.11 J	0.39 U	0.09 J
Chrysene	0.66	0.36	0.66	0.42	0.35 J	0.19 J	0.35 J	0.67	0.84	0.21 J	1.1	0.38 J	0.57
Dibenz(a,h)anthracene		0.35 U	0.097 J	0.077 J	0.36 U	0.37 U	0.37 U	0.095 J	0.37 U	0.38 U	0.18 J	0.39 U	0.08 J
Dibenzofuran		0.35 U	0.16 J	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Diethylphthalate		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Dimethylphthalate		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Di-n-butylphthalate		0.039 J	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.052 J	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Di-n-octylphthalate		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Fluoranthene	0.93	0.46	1.2	0.48	0.42	0.24 J	0.49	1	1.1	0.33 J	1.6	0.6	1.1
Fluorene		0.35 U	0.21 J	0.37 U	0.36 U	0.37 U	0.37 U	0.039 J	0.37 U	0.38 U	0.065 J	0.39 U	0.39 U
Hexachlorobenzene		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Indeno(1,2,3-cd)pyrene	0.25 J	0.22 J	0.32 J	0.3 J	0.29 J	0.095 J	0.24 J	0.34 J	0.4	0.1 J	0.68	0.18 J	0.37 J
Isophorone		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Naphthalene		0.046 J	0.11 J	0.054 J	0.05 J	0.11 J	0.039 J	0.059 J	0.087 J	0.38 U	0.055 J	0.044 J	0.39 U
Nitrobenzene		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Pentachlorophenol		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Phenanthrene	0.34 J	0.25 J	1.4	0.24 J	0.23 J	0.18 J	0.29 J	0.63	0.29 J	0.14 J	0.93	0.29 J	0.69
Phenol		0.35 U	0.35 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.39 U	0.39 U
Pyrene	1.1	0.45	1.3	0.49	0.44	0.25 J	0.54	1.1	1.3	0.38	1.7	0.53	1
Total Organic Carbon													
Metals (mg/kg)													
Aluminum	8850	7800	7480	6710	6540	6070	9770	11000	7870	9370	9980	9900	8810
Antimony	0.93999	0.53 BN	0.49 BN	0.49 BN	0.49 BN	0.35 BN	0.27 BN	0.29 BN	0.38 BN	0.3 BN	0.24 BN	0.45 BN	0.36 BN
Arsenic	11.7	11	8.5	9.4	6.2	5.5	12.3	11.7	6.9	6.1	5.2	7.2	5.7
Barium	33.4	49.6	54.3	48.1	48.8	52.7	38.3	51.5	36.1	46.5	48.6	44.4	43.2
Beryllium	0.36 B	0.28 B	0.31 B	0.25 B	0.24 B	0.2 B	0.34 B	0.53 B	0.37 B	0.42 B	0.52 B	0.47 B	0.43 B
Cadmium		0.35 B	0.32 B	0.3 B	0.19 B	0.29 B		0.17 B	0.04 B	0.08 B	0.06 B	0.02 B	0.11 B

Table E-4
Area 3 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	SB-07 FSS-SB- 07-01 8/1/1998 0-0_5 ft	SS-30 FSS-SS- 30-01 7/1/2000 0-0_17 ft	SS-31 FSS-SS- 31-01 7/1/2000 0-0_17 ft	SS-32 FSS-SS- 32-01 7/1/2000 0-0_17 ft	SS-33 FSS-SS- 33-01 7/1/2000 0-0_17 ft	SS-34 FSS-SS- 34-01 7/1/2000 0-0_17 ft	SS-35 FSS-SS- 35-01 7/1/2000 0-0_17 ft	SS-36 FSS-SS- 36-01 7/1/2000 0-0_17 ft	SS-37 FSS-SS- 37-01 7/1/2000 0-0_17 ft	SS-38 FSS-SS- 38-01 7/1/2000 0-0_17 ft	SS-39 FSS-SS- 39-01 7/1/2000 0-0_17 ft	SS-40 FSS-SS- 40-01 7/1/2000 0-0_17 ft	SS-45 FSS-SS- 45-01 7/1/2000 0-0_17 ft
Calcium	390	1840	2550	2430	1940	1730	329	466	290	477	921	486	601
Chromium	17.5	17.9	19	18.3	17	18	18.6	21.1	16.8	17.1	19.6	22.2	20.2
Cobalt	2.9 B	4.1 B	5.4	4 B	4.6 B	5 B	3.1 B	4.3 B	3.9 B	4.3 B	6.4	6.5	5.2 B
Copper	67.4	31.4	44.5	27	21.7	41.1	83.8	36.9 E	36.5 E	36.2 E	22.6 E	36.3 E	28.8 E
Elemental Mercury													
Iron	13800	13800	15200	12600	12800	13100	15200	15900	12500	13400	15800	16300	14100
Lead	136	139	122	120	89.6	118	122	206 N	143 N	162 N	68.7 N	123 N	81.6 N
Magnesium	1700 X	1770 E	1990 E	1820 E	1860 E	2020 E	1780 E	1920	1650	1890	2340	2320	2070
Manganese	154	211 N	225 N	244 N	251 N	255 N	151 N	191 N	165 N	222 N	313 N	256 N	247 N
Mercury	2.6	0.56	0.33	0.38	0.36	0.26	2	0.99	2.3	5	0.22	0.89	0.12
Mercury, Inorganic Salts	2.6	0.56	0.33	0.38	0.36	0.26	2	0.99	2.3	5	0.22	0.89	0.12
Methyl mercury													
Nickel	9.7	13.7	16.3	14.9	14.3	15.6	11	13.9	11.3	13.3	17.9	17.4	18.2
Potassium	325	546	658	721	821	1050	368	450	340	457	734	736	806
Selenium	0.76	0.6	0.46 B	0.45 B	0.37 B	0.18 B	1.2	1	1	0.89	0.66	1.3	0.73
Silver		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Sodium	110	155	153	134	138	132	114	121	104 B	126	125	121	119
Thallium	0.12 B	0.16 U	0.16 U	0.17 U	0.16 U	0.16 U	0.16 U	0.17 U	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U
Vanadium	36.6	35.4	36.9	27.8	22.9	18.5	33.3	38.9	32.8	24.9	28	47.1	47.7
Zinc	42.5	94.8 N	91.7 N	87.6 N	79 N	131 N	46.7 N	68.2	48.9	67.6	75.8	57.2	58.2

Notes:

- B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).
- E - Reported value is estimated due to interference.
- J - Value is estimated
- N - Spiked sample recovery was not within normal limits
- U - Value is not detected
- X -

mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/1/11

Table E-5
Area 4 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	A14-101 A14-101(0- 2) 5/10/2011 0-0 17 ft	A14-102 A14-102(0- 2) 5/12/2011 0-0 17 ft	A14-103 A14-103(0- 2) 5/12/2011 0-0 17 ft	A14-104 A14-104(0- 2) 5/12/2011 0-0 17 ft	A14-105 A14-105(0- 2) 5/11/2011 0-0 17 ft	A14-106 A14-106(0- 2) 5/11/2011 0-0 17 ft	A14-107 A14-107(0- 2) 5/12/2011 0-0 17 ft	A14-108 A14-108(0- 2) 5/12/2011 0-0 17 ft	A14-109 A14-109(0- 2) 5/12/2011 0-0 17 ft	A14-110 A14-110(0- 2) 5/12/2011 0-0 17 ft	A14-111 A14-111(0- 2) 5/12/2011 0-0 17 ft	A14-112 A14-112(0- 2) 5/11/2011 0-0 17 ft	A14-113 A14-113(0- 2) 5/12/2011 0-0 17 ft	A14-114 A14-114(0- 2) 5/12/2011 0-0 17 ft	A14-115 A14-115(0- 2) 5/11/2011 0-0 17 ft	B-05 Ad2004- SS-5-SH 6/21/2004 0-1 ft	B-06 Ad2004- SS-6-SH 6/21/2004 0-1 ft	B-07 Ad2004- SS-7-SH 6/21/2004 0-1 ft	B-08 Ad2004- SS-8-SH 6/21/2004 0-1 ft	SB-01 FSS-SB- 01-01 8/1/1998 0-0 5 ft	
Semivolatile Organics (mg/kg)																					
1,2-Dichlorobenzene																0.00369 U	0.00369 U	0.033 U	0.00369 U		
1-Methylnaphthalene		0.0068 J	0.023	0.029	0.027	0.11 J	0.0066 J	0.0095	0.0171	0.0144	0.459	0.0085 J	0.0094	0.0062 J	0.0023 J						
2,4,5-Trichlorophenol																			0.033 U		
2,4-Dichlorophenol																			0.033 U		
2,4-Dinitrophenol																			0.033 U		
2,6-Dinitrotoluene																			0.033 U		
2-Chlorophenol																			0.033 U		
2-Methylnaphthalene		0.0096 J	0.022	0.036	0.035	0.14 J	0.0076 J	0.0123	0.021	0.0126	0.803	0.011 J	0.0061 J	0.0066 J	0.0028 J				0.033 U		
2-Methylphenol																			0.033 U		
2-Nitroaniline																			0.033 U		
2-Nitrophenol																			0.033 U		
3,3'-Dichlorobenzidine																2 U			2 U		
3-Nitroaniline																			0.033 U		
4-Chloro-3-methylphenol																0.0059 J	0.0082 J	0.033 U	0.00551 U		
4-Chloroaniline																0.17 U			0.17 U		
4-Methylphenol																0.00537 U	0.00537 U	0.033 U	0.00537 U		
4-Nitrophenol																0.066 U			0.066 U		
Acenaphthene		0.0058 J	0.0098 J	0.0044 J	0.0088 J	0.23 J	0.0092	0.012	0.011	0.053	2	0.0079 J	0.0088	0.0085	0.0026 J	0.014 J	0.022 J	0.033 U	0.0086 J		
Acenaphthylene		0.065	0.16	0.035	0.25	3.3	0.034	0.17	0.043	0.099	0.1	0.13	0.13	0.13	0.025	0.27	0.18	0.017 J	0.029 J		
Anthracene		0.042	0.086	0.021	0.1	1.4	0.029	0.16	0.041	0.12	4	0.065	0.062	0.072	0.017 J	0.15	0.12	0.017 J	0.031 J		
Benzo(a)anthracene		0.19	0.33	0.099	0.56	7.3	0.11	0.35	0.22	0.46	6	0.3	0.36	0.29	0.096	1	0.97	0.14	0.2	0.11 J	
Benzo(a)pyrene		0.25	0.42	0.13	0.77	9.8	0.14	0.51	0.27	0.54	4.6	0.45	0.49	0.42	0.13	1.1	1.5	0.16 J	0.19	0.13 J	
Benzo(b)fluoranthene		0.37	0.73	0.2	1.3	15	0.21	1.2	0.44	0.76	2.9	0.67	0.54	0.6	0.19	0.88	1.2	0.093 J	0.2	0.21 J	
Benzo(ghi)perylene		0.22	0.34	0.12	0.75	9.1	0.14	0.45	0.2	0.39	2.6	0.43	0.61	0.33	0.1	0.74	0.69	0.12 J	0.14	0.095 J	
Benzo(k)fluoranthene		0.0038 U	0.8	0.002 U	0.0039 U	0.076 U	0.0021 U	0.002 U	0.0018 U	0.002 U	1.4	0.0038 U	0.17	0.002 U	0.004 U	0.93	0.6	0.081 J	0.092		
Bis(2-Ethylhexyl)phthalate																0.057 J	0.094	0.062 J	0.15	0.58	
Butylbenzylphthalate																0.012 J	0.013 J	0.016 J	0.00756 U		
Carbazole																0.061	0.062	0.01 J	0.02 J		
Chrysene		0.23	0.6	0.12	0.57	8.2	0.14	0.57	0.29	0.49	4.7	0.3	0.41	0.33	0.11	1.1	0.88	0.16 J	0.22	0.15 J	
Dibenz(a,h)anthracene		0.051	0.081	0.022	0.17	2	0.027	0.13	0.057	0.11	1.3	0.098	0.18	0.099	0.024	0.39	0.078	0.66 U	0.044 J		
Dibenzofuran																0.011 J	0.016 J	0.033 U	0.00803 U		
Diethylphthalate																		0.033 U			
Dimethylphthalate																		0.033 U			
Di-n-butylphthalate																0.046	0.12	0.19	0.056		
Di-n-octylphthalate																0.00691 U	0.00691 U	0.033 U	0.00691 U		
Fluoranthene		0.37	0.95	0.18	0.97	16	0.23	0.65	0.38	1	11	0.39	0.89	0.55	0.16 J	1.6	1.9	0.21	0.33	0.23 J	
Fluorene		0.0072 J	0.019	0.0054 J	0.019	0.3	0.0087	0.017	0.01	0.04	1.9	0.012 J	0.011	0.014	0.0031 J	0.04	0.032 J	0.033 U	0.014 J		
Hexachlorobenzene																			0.033 U		
Indeno(1,2,3-cd)pyrene		0.18	0.29	0.099	0.66	7.4	0.11	0.43	0.18	0.33	2.5	0.35	0.51	0.3	0.085	0.82	0.75	0.14 J	0.14	0.1 J	
Isophorone																			0.033 U		
Naphthalene		0.011 J	0.022	0.025	0.031	0.21 J	0.0084 J	0.017	0.017	0.016	1.9	0.019	0.0077 J	0.0097	0.0049 J	0.012 J	0.022 J	0.033 U	0.0089 J		
Nitrobenzene																			0.033 U		
Pentachlorophenol																0.00552 U	0.022 J	0.033 U	0.00552 U		
Phenanthrene		0.13	0.33	0.075	0.22	5.2	0.11	0.19	0.14	0.66	12	0.11	0.23	0.2	0.05 J	0.49	0.5	0.07	0.18	0.12 J	
Phenol																			0.033 U		
Pyrene		0.35	1	0.2	0.86	14	0.23	0.62	0.35	0.87	9.2	0.39	0.55	0.47	0.13	1.4	1.8	0.23 J	0.38	0.26 J	
Total Organic Carbon																				23600	
Metals (mg/kg)																					
Aluminum	7610															14000	14500	13600	12400	11400	
Antimony	0.22 J															0.61	0.71	1.1	0.72	0.93 N	
Arsenic	3.6															7.9	6.9	5.1	5.5	2.9	
Barium	64.1															105	74	95	138	129	
Beryllium	0.4 U															0.17 J	0.1 J	0.068 J	0.31 J	0.53 B	
Cadmium	0.19 J															0.49 J	0.37 J	0.32 J	0.54		
Calcium	6900 J															4090	2970	2140	2870	1270 X	
Chromium	17.3															21	20	19	20	28.2 X	
Cobalt	5.6 J															7.6	7.7	7.9	7.9	8.2	
Copper	29															34	37	35	37	20.8	
Elemental Mercury					0.0003 U	0.0004 U					0.0004 U				0.0004 U						
Iron	12700															17800	17900	24900	19300	23100	
Lead	94.6 J															171	108	222	305	175	
Magnesium	5090 J															4060	3390	3190	2700	3360 N	
Manganese	351															466	424	566	471	493	
Mercury					0.19 J	0.181 J						0.117 J			0.0864 J	0.38	0.29	0.79	0.43	0.16	
Mercury, Inorganic Salts																0.38	0.29	0.79	0.43	0.16	
Methyl mercury					0.000708 J	0.000535 J						0.000464 J			0.00038 J						

Table E-5
Area 4 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	A14-101 A14-101(0-2) 5/10/2011 0-0_17 ft	A14-102 A14-102(0-2) 5/12/2011 0-0_17 ft	A14-103 A14-103(0-2) 5/12/2011 0-0_17 ft	A14-104 A14-104(0-2) 5/12/2011 0-0_17 ft	A14-105 A14-105(0-2) 5/11/2011 0-0_17 ft	A14-106 A14-106(0-2) 5/11/2011 0-0_17 ft	A14-107 A14-107(0-2) 5/12/2011 0-0_17 ft	A14-108 A14-108(0-2) 5/12/2011 0-0_17 ft	A14-109 A14-109(0-2) 5/12/2011 0-0_17 ft	A14-110 A14-110(0-2) 5/12/2011 0-0_17 ft	A14-111 A14-111(0-2) 5/12/2011 0-0_17 ft	A14-112 A14-112(0-2) 5/12/2011 0-0_17 ft	A14-113 A14-113(0-2) 5/12/2011 0-0_17 ft	A14-114 A14-114(0-2) 5/12/2011 0-0_17 ft	A14-115 A14-115(0-2) 5/11/2011 0-0_17 ft	B-05 Ad2004-SS-5-SH 6/21/2004 0-1 ft	B-06 Ad2004-SS-6-SH 6/21/2004 0-1 ft	B-07 Ad2004-SS-7-SH 6/21/2004 0-1 ft	B-08 Ad2004-SS-8-SH 6/21/2004 0-1 ft	SB-01 FSS-SB-01-01 8/1/1998 0-0_5 ft
Nickel	15.8															19 J	17 J	18 J	20	23.7
Potassium	919															1330 J	967 J	1340 J	1230	843 E
Selenium	0.81 U															0.59 J	0.52 J	0.49 J	0.43 J	
Silver	0.12 U															0.362 U	0.362 U	0.362 U	0.45 U	
Sodium	172 J															404	157	31.4 U	72	116 B
Thallium	1.2 U															0.18 J	0.18 J	0.17 J	0.16 J	
Vanadium	21.1															32 J	35 J	29 J	37	34.7
Zinc	116 J															144	98	148	199	99.5

Table E-5
Area 4 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	SB-02 FSS-SB-02-01 8/1/1998 0-0.5 ft	SB-03 FSS-SB-03-01 8/1/1998 0-0.5 ft	SS-01 FSS-SS-01-01 7/1/2000 0-0.17 ft	SS-02 FSS-SS-02-01 7/1/2000 0-0.17 ft	SS-03 FSS-SS-03-01 7/1/2000 0-0.17 ft	SS-04 FSS-SS-04-01 7/1/2000 0-0.17 ft	SS-05 FSS-SS-05-01 7/1/2000 0-0.17 ft	SS-06 FSS-SS-06-01 7/1/2000 0-0.17 ft	SS-07 FSS-SS-07-01 7/1/2000 0-0.17 ft	SS-08 FSS-SS-08-01 7/1/2000 0-0.17 ft	SS-09 FSS-SS-09-01 7/1/2000 0-0.17 ft	SS-10 FSS-SS-10-01 7/1/2000 0-0.17 ft	SS-11 FSS-SS-11-01 7/1/2000 0-0.17 ft	SS-12 FSS-SS-12-01 7/1/2000 0-0.17 ft	SS-13 FSS-SS-13-01 7/1/2000 0-0.17 ft	SS-14 FSS-SS-14-01 7/1/2000 0-0.17 ft	SS-15 FSS-SS-15-01 7/1/2000 0-0.17 ft	SS-16 FSS-SS-16-01 7/1/2000 0-0.17 ft	SS-17 FSS-SS-17-01 7/1/2000 0-0.17 ft
Nickel	20.2	18.7	15	17.5	17.5	18.2	15.1	15.9	13.3	13	11.4	12.9	11.6	13.2	16.9	15.7	14.3	14.7	11.6
Potassium	1440	1350 E	739	1060	1020	1040	1140	1050	831	984	851	1140	907	945	1360	1450	1000	1220	936
Selenium			0.63	0.47 B	0.6	0.59	0.64	0.55 B	0.48	0.39 B	0.69	0.5 B	0.58	0.73	0.6	0.63	0.71	0.82	0.64
Silver			0.19 U	0.33 U	0.35 U	0.34 U	0.33 U	0.18 U	0.15 U	0.15 U	0.18 U	0.2 U	0.17 U	0.19 U	0.17 U	0.33 U	0.15 U	0.36 U	0.19 U
Sodium	128	135	118	197	200	147	155	161	97.2	97.1	112 B	164	108	174	153	175	156	141	122
Thallium	0.12 B	0.15 B	0.14 U	0.12 U	0.13 U	0.13 U	0.14 U	0.14 U	0.12 U	0.12 U	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.14 U	0.13 U	0.14 U	0.14 U
Vanadium	29.6	33.7	24.2	23.3	27.5	28.3	27.4	25.9	23.9	26.5	19.2	20.7	24.3	22.7	30	29.1	26.4	29.7	25.4
Zinc	94.2	122	116	91.3	169	70.2	142	135	101	94.1	121	155	59.4	129	144	164	131	150	81.1

Notes:

- B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).
- E - Reported value is estimated due to interference.
- J - Value is estimated
- N - Spiked sample recovery was not within normal limits
- U - Value is not detected
- X -

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/1/11

mg/kg - milligrams per kilograms

Table E-6
Area 5 Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI5-101 AI5-101(0-6) 5/10/2011 0-0_5 ft	AI5-102 AI5-102(0-2) 5/10/2011 0-0_17 ft	AI5-103 AI5-103(0-2) 5/10/2011 0-0_17 ft	AI5-104 AI5-104(0-2) 5/10/2011 0-0_17 ft	AI5-105 AI5-105(0-2) 5/11/2011 0-0_17 ft	AI5-106 AI5-106(0-2) 5/11/2011 0-0_17 ft	AI5-106 AI5-106(0-6) 5/11/2011 0-0_5 ft	AI5-107 AI5-107(0-2) 5/11/2011 0-0_17 ft	AI5-108 AI5-108(0-2) 5/11/2011 0-0_17 ft	AI5-109 AI5-109(0-2) 5/10/2011 0-0_17 ft	AI5-110 AI5-110(0-2) 5/11/2011 0-0_17 ft	SB-08 FSS-SB-08-01 8/1/1998 0-0_5 ft	SS-41 FSS-SS-41-01 7/1/2000 0-0_17 ft	SS-42 FSS-SS-42-01 7/1/2000 0-0_17 ft	SS-43 FSS-SS-43-01 7/1/2000 0-0_17 ft	SS-44 FSS-SS-44-01 7/1/2000 0-0_17 ft
Metals (mg/kg)																
Aluminum	4100	2160	2930	3740	5360		7520	4570	7660	6070	2990	9380	2280	6750	2540	5880
Antimony	0.24 J	0.42 UJ	0.4 UJ	0.4 UJ	1.2 J		0.44 UJ	1.4 J	0.44 UJ	0.43 J	0.25 J	0.46 BN	0.39 BN	0.21 UN	0.92 N	0.61 N
Arsenic	13.3	2.9	1.7	2.8	3.9		3	3.1	3.2	5.5	6.5	2	4.4	5.5	5.2 X	3.5 X
Barium	42.7	49.8	23.5	45.9	55.8		47.3	47.7	53.4	56.8	53.8	37.7	79 N	80.2 N	84.8 X	62.8 X
Beryllium	0.32 U	0.22 U	0.19 U	0.22 U	0.36 J		0.46	0.31 J	0.48	0.37 U	0.37 J	0.34 B	0.19 B	0.41 B	0.24 B	0.22 B
Cadmium	0.48 J	0.072 J	0.054 J	0.037 J	0.53 J		0.22 J	1.7	0.74	0.47 J	0.21 J		0.31 B	0.86	0.34 B	0.97
Calcium	11100 J	10600 J	27200 J	15800 J	30500		8170	16000	6140	3250 J	4660	993	3250 EN	3970 EN	2910 N	1210 N
Chromium	11.6	7.1	7.6	5.6	18.1		17.7	29.7	15.4	18.2	7.3	18.1	7.9 E	17.5 E	4.9	17
Cobalt	4 J	2.7 J	3 J	4.1 J	3.6 J		13	4 J	4.7 J	5.7 J	3.4 J	5 B	10	35.5	5.8	6.4
Copper	38	17.3	11.7	23.7	90.7 J		21.6 J	69.4 J	27.3 J	227	44.6 J	9.5	310 E	83.7 E	29.9	91
Elemental Mercury					0.0004 U	0.0003 U										
Iron	7720	3870	6670	6180	9240		15600	8850	14000	13600	6140	15300	5790	13400	6210 X	13400 X
Lead	81.9 J	21.2 J	53.3 J	22.6 J	366 J		143 J	587 J	88 J	350 J	55.3 J	13.6	536	793	442 X	265 X
Magnesium	1240 J	760 J	12700 J	1550 J	2420 J		2340	1780	2030	2010 J	706	2350 X	490	2130	485 X	1970 X
Manganese	101	48	160	78.7	155 J		438 J	140 J	227 J	206	56 J	209	80.3 N	245 N	46.6 N	205 N
Mercury					0.28 J	0.178 J						1.6	0.77 X	4.5 X	0.59 N	4.8 N
Mercury, Inorganic Salts												1.6	0.77 X	4.5 X	0.59 N	4.8 N
Methyl mercury					0.000169 J	0.000059 U										
Nickel	12.2	8.4	14	10.5	13.9		18.9	22.8	14.2	21.3	12	12.7	9.5	17.3	7	15.1
Potassium	401 J	326 J	427 J	486 J	451 J		1280	387 J	688	836	325 J	760	376	1140	364	1080
Selenium	0.63 J	0.73 U	0.7 U	0.69 U	0.65 J		0.77 U	0.69 J	0.78 U	0.83 U	1.9		0.5	0.88	0.47 B	1.3
Silver	0.12 U	0.1 U	0.1 U	0.072 J	0.19 J		0.11 U	0.22 J	0.11 U	0.11 J	0.19 J		2.4	1.2	0.13 U	0.13 U
Sodium	235 J	431 J	179 J	379 J	206 J		226 J	45.9 J	129 J	496 J	286 J	227	154	171	304	133
Thallium	1.2 U	1 U	1 U	0.99 U	1.1 U		1.1 U	1.2 U	1.1 U	1.2 U	1.2 U		0.17 U	0.012 B	0.12 UW	0.12 U
Vanadium	19.2	11.1	40.1	20.1	15.1		22	36.1	20.1	27.2	14.9	21.4	16 N	19.6 N	11	19.4
Zinc	80.2 J	26.6 J	29.9 J	28.6 J	158 J		120 J	283 J	213 J	316 J	45.7 J	37.6	154 N	223 N	109 N	179 N

Notes:

- B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).
- E - Reported value is estimated due to interference.
- J - Value is estimated
- N - Spiked sample recovery was not within normal limits
- U - Value is not detected
- W -
- X -
- mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/1/11

Table E-7
Background Surface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	BKG-01 BKG-SH-01 9/16/2008 0-0_25 ft	BKG-02 BKG-SH-02 9/16/2008 0-0_25 ft	BKG-03 BKG-SH-03 9/16/2008 0-0_25 ft	BKG-04 BKG-SH-04 9/16/2008 0-0_25 ft	BKG-05 BKG-SH-05 9/16/2008 0-0_25 ft	BKG-06 BKG-SH-06 9/16/2008 0-0_25 ft	BKG-07 BKG-SH-07 9/16/2008 0-0_25 ft	BKG-08 BKG-SH-08 9/16/2008 0-0_25 ft	BKG-09 BKG-SH-09 9/16/2008 0-0_25 ft	BKG-10 BKG-SH-10 9/16/2008 0-0_25 ft	BKG-11 BKG-SH-11 9/16/2008 0-0_25 ft	BKG-12 BKG-SH-12 9/16/2008 0-0_25 ft	BKG-13 BKG-SH-13 9/16/2008 0-0_25 ft	BKG-14 BKG-SH-14 9/16/2008 0-0_25 ft	BKG-15 BKG-SH-15 9/16/2008 0-0_25 ft
Indeno(1,2,3-cd)pyrene	0.095	0.02	0.052	0.021	0.17	0.07	0.13	0.053	0.048	0.11	0.055	0.05	0.024	0.038	0.072
Isophorone	0.005 U	0.0057 U	0.0049 U	0.0048 U	0.0051 U	0.0052 U	0.0052 U	0.0059 U	0.0056 U	0.0054 U	0.005 U	0.0048 U	0.0048 U	0.0056 U	0.0057 U
Naphthalene	0.0083 J	0.00095 U	0.0057 J	0.0008 U	0.029	0.0026 J	0.006 J	0.002 J	0.0042 J	0.012	0.00084 U	0.0028 J	0.0016 J	0.0028 J	0.0028 J
Nitrobenzene	0.0071 U	0.008 U	0.007 U	0.0068 U	0.0073 U	0.0074 U	0.0073 U	0.0083 U	0.008 U	0.0077 U	0.0071 U	0.0068 U	0.0069 U	0.0079 U	0.0081 U
N-Nitrosodi-n-propylamine	0.0042 U	0.0047 U	0.0041 U	0.004 U	0.0043 U	0.0043 U	0.0043 U	0.0049 U	0.0047 U	0.0045 U	0.0042 U	0.004 U	0.004 U	0.0046 U	0.0047 U
N-Nitrosodiphenylamine	0.0037 U	0.0043 U	0.0037 U	0.0036 U	0.0038 U	0.0039 U	0.0039 U	0.0044 U	0.0042 U	0.016	0.0038 U	0.0036 U	0.0036 U	0.0042 U	0.0043 U
Pentachlorophenol	0.019 UJ	0.021 UJ	0.018 UJ	0.018 U	0.019 U	0.02 U	0.019 U	0.022 U	0.021 UJ	0.02 U	0.019 U	0.018 U	0.018 U	0.021 UJ	0.021 UJ
Phenanthrene	0.43	0.051	0.13	0.032	1	0.1	0.34	0.076	0.078	0.31	0.086	0.052	0.034	0.062	0.067
Phenol	0.01 U	0.012 U	0.01 U	0.01 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.011 U	0.01 U	0.0099 U	0.01 U	0.012 U	0.012 U
Pyrene	0.75	0.12	0.32	0.084 J	1.1 J	0.27 J	0.5 J	0.16	0.18	0.58	0.24	0.16 J	0.079 J	0.19	0.21
Metals (mg/kg)															
Aluminum	5440	11200	10800	12200	10200	11000	7190	9970 J	12600	3630 J	4910 J	10500	13200	12400	8550
Antimony	0.97 J	0.24 U	0.32 J	0.53 J	0.66 J	0.41 J	0.25 U	0.53 J	0.65 J	1.5 J	1.1 J	0.36 J	0.79 J	0.33 J	1 J
Arsenic	6.3	5.9	6	8.8	11.5	8.2	4.6	6.1	5.3	6	3.4	6.1	5.4	8.4	5
Barium	91.7	57.2	85.9	68.4	58	77.4	59.7	79.8	84	102	42.6	71.2	63.7	87.2	56.3
Beryllium	0.41	0.43	0.46	0.57	0.42	0.47	0.38	0.44	0.5	0.27	0.19	0.62	0.61	0.59	0.36
Cadmium	0.66	0.086 J	0.37 J	0.34 J	0.36 J	0.5 J	0.42 J	0.54 J	0.57 J	2.5	0.73	0.5 J	0.36 J	0.55 J	0.93
Calcium	7590	1570	1200	1140	1940	2220	2450	2620	2780	8680	12100	1500	1140	5730	2120
Chromium	19	26.5	23.9	19.2	16.3	19.7	14.5	22.2	25.4	23.6	15.2	21.6	21.3	23.1	31.8
Cobalt	4.3	6.4	7	6.4	4.8	5.7	5.7	6.1	7	4	3.9	6.6	8.6	6.3	4.8
Copper	75.5	22.9	45.1	23.4	26.4	31	28	34.2	44.8	84.9	54.4	25.9	26.8	44.7	48.8
Iron	17800	18400	17100	16500	14700	16400	13000	20200 J	19200	25200 J	14300 J	18200	19200	18700	15500
Lead	162	61.9	170	63.2	73.7	143	116	140	219	3000	728	141	69.2	179	250
Magnesium	3530	2560	2630	2360	1820	2180	1950	2200 J	2830	4250 J	5900 J	1710	2320	2340	2200
Manganese	281	261	359	461	223	338	256	345 J	262	207 J	156 J	502	653	391	300
Mercury	0.14	0.11	0.17	0.17	0.15	0.35	0.12	0.21	0.19	0.15	0.47	0.29	0.12	1.2	0.19
Mercury, Inorganic Salts	0.14	0.11	0.17	0.17	0.15	0.35	0.12	0.21	0.19	0.15	0.47	0.29	0.12	1.2	0.19
Nickel	15.4	17.8	22	16.6	14.2	16.5	14.5	20.8	22.5	30	40.4	18.6	19.1	18.7	18
Potassium	668	771	1030	633	804	784	826	1020 J	1030	441 J	558 J	546	681	605	537
Selenium	0.4 U	0.45 U	0.39 U	0.44 U	0.5 U	0.48 U	0.48 U	0.48 U	0.45 U	0.43 U	0.4 U	0.5 J	0.94 J	0.43 J	0.44 U
Silver	0.4 J	0.034 U	0.044 UJ	0.033 U	0.038 U	0.32 J	0.036 U	0.036 U	0.065 UJ	0.16 J	0.031 U	0.034 U	0.033 U	0.04 UJ	0.048 UJ
Sodium	113 UJ	94.4 UJ	90.7 UJ	88.3 UJ	123 UJ	92 UJ	95.6 UJ	157 UJ	112 UJ	234 UJ	106 UJ	89.9 UJ	102 UJ	109 UJ	250 U
Thallium	0.49 U	0.55 U	0.48 U	0.64 J	0.61 U	0.59 U	0.58 U	0.58 U	0.55 U	0.52 U	0.49 U	0.66 J	1.4 J	0.52 U	0.54 U
Vanadium	22.1	33.5	47.5	30.8	26.3	35.2	24.2	36.2	43.9	34.2	24.7	36.4	37.8	39.2	25.7
Zinc	228	73.6	99.9	66.8	75.4	107	121	142 J	126	692 J	204 J	96	64.6	163	293

Notes:

J - Value is estimated

U - Value is not detected

mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11

Checked/Date: BJR 11/1/11

Table E-8
Area 1 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-10 Ad2004- SS-10-DP 6/21/2004 1-2 ft	B-11 Ad2004- SS-11-DP 6/21/2004 1-2 ft	B-11 Ad2004- SS-B11- DP 8/26/2004 1-2 ft	FLA-10 FLA-SB- 10-02 8/1/1998 2-3 ft	FLA-11 FLA-SB- 11-02 8/1/1998 2-3 ft	FLA-12 FLA-SB- 12-02 8/1/1998 2-3 ft
Volatile Organics (mg/kg)						
1,1,1-Trichloroethane				0.0053 U	0.33 U	0.0091 U
1,1,2,2-Tetrachloroethane				0.0053 U	0.33 U	0.0091 U
1,1-Dichloroethane				0.0053 U	0.33 U	0.0091 U
1,2,4-Trichlorobenzene				0.0053 U	0.33 U	0.0091 U
1,2-Dichlorobenzene				0.0053 U	0.33 U	0.0091 U
1,2-Dichloroethane				0.0053 U	0.33 U	0.0091 U
1,3-Dichlorobenzene				0.0053 U	0.33 U	0.0091 U
1,3-Dichloropropane				0.0053 U	0.33 U	0.0091 U
1,4-Dichlorobenzene				0.0053 U	0.33 U	0.0091 U
2-Butanone				0.011 U	0.67 U	0.01 J
4-Methyl-2-pentanone				0.011 U	0.67 U	0.018 U
Acetone				0.021 B	0.41 J	0.125
Benzene				0.0053 U	0.33 U	0.0043 J
Carbon disulfide				0.0053 U	0.33 U	0.0091 U
Carbon tetrachloride				0.0053 U	0.33 U	0.0091 U
Chlorobenzene				0.0053 U	0.33 U	0.0091 U
Chlorodibromomethane				0.0053 U	0.33 U	0.0091 U
Chloroethane				0.0053 U	0.33 U	0.0091 U
Chloroform				0.0053 U	0.33 U	0.0091 U
Ethyl benzene				0.0053 U	0.33 U	0.0091 U
Methylene chloride				0.0053 U	0.33 U	0.0091 U
Tetrachloroethene				0.0053 U	0.33 U	0.0091 U
Toluene				0.0053 U	0.33 U	0.0022 J
trans-1,2-Dichloroethene				0.0053 U	0.33 U	0.0091 U
Trichloroethene				0.0053 U	0.33 U	0.0033 J
Trichlorotrifluoroethane				0.0053 U	0.33 U	0.0091 U
Vinyl chloride				0.0053 U	0.33 U	0.01
Xylenes, Total				0.0053 U	0.33 U	0.0091 U
Semivolatile Organics (mg/kg)						
1,2-Dichlorobenzene	0.033 U	0.0061 J	0.00436 U			
2,4,5-Trichlorophenol	0.033 U	0.033 U				
2,4-Dichlorophenol	0.033 U	0.033 U				
2,4-Dinitrophenol	0.033 U	0.033 U				
2,6-Dinitrotoluene	0.033 U	0.033 U				
2-Chlorophenol	0.033 U	0.033 U				
2-Methylnaphthalene	0.033 U	0.033 U				
2-Methylphenol	0.033 U	0.033 U				
2-Nitroaniline	0.033 U	0.033 U				
2-Nitrophenol	0.033 U	0.033 U				
3,3'-Dichlorobenzidine	2 U	2 U				
3-Nitroaniline	0.033 U	0.033 U				
4-Chloro-3-methylphenol	0.033 U	0.0078 J	0.0064 J			
4-Chloroaniline	0.17 U	0.17 U				
4-Methylphenol	0.033 U	0.033 U	0.00278 U			
4-Nitrophenol	0.066 U	0.066 U				
Acenaphthene	0.033 U	0.049	0.068 J			
Acenaphthylene	0.033 U	0.024 J	0.014 J			
Anthracene	0.033 U	0.13	0.18 J			
Benzo(a)anthracene	0.033 U	0.56	0.54 J			
Benzo(a)pyrene	0.033 U	0.57	0.38 J			
Benzo(b)fluoranthene	0.66 U	0.49	0.35 J			
Benzo(ghi)perylene	0.033 U	0.4	0.25 J			
Benzo(k)fluoranthene	0.66 U	0.19 J	0.3 J			
Bis(2-Ethylhexyl)phthalate	0.32	0.15	0.1 J			

Table E-8
Area 1 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-10 Ad2004- SS-10-DP 6/21/2004 1-2 ft	B-11 Ad2004- SS-11-DP 6/21/2004 1-2 ft	B-11 Ad2004- SS-B11- DP 8/26/2004 1-2 ft	FLA-10 FLA-SB- 10-02 8/1/1998 2-3 ft	FLA-11 FLA-SB- 11-02 8/1/1998 2-3 ft	FLA-12 FLA-SB- 12-02 8/1/1998 2-3 ft
Butylbenzylphthalate	0.023 J	0.033 U	0.00209 U			
Carbazole	0.033 U	0.053	0.065 J			
Chrysene	0.033 U	0.41 J	0.43			
Dibenz(a,h)anthracene	0.66 U	0.66 U	0.068 J			
Dibenzofuran	0.033 U	0.015	0.03 J			
Diethylphthalate	0.033 U	0.033 U				
Dimethylphthalate	0.033 U	0.033 U				
Di-n-butylphthalate	0.29	0.36	0.18 J			
Di-n-octylphthalate	0.033 U	0.033 U	0.00125 U			
Fluoranthene	0.033 U	0.69	0.87			
Fluorene	0.033 U	0.035	0.062			
Hexachlorobenzene	0.033 U	0.033 U				
Indeno(1,2,3-cd)pyrene	0.0119 UJ	0.46 J	0.28			
Isophorone	0.033 U	0.033 U				
Naphthalene	0.033 U	0.029 J	0.026 J			
Nitrobenzene	0.033 U	0.033 U				
Pentachlorophenol	0.033 U	0.033 U	0.00653 U			
Phenanthrene	0.033 U	0.37	0.59			
Phenol	0.033 U	0.033 U				
Pyrene	0.033 U	0.73 J	0.86			
Metals (mg/kg)						
Aluminum	17500	8970				
Antimony	0.19 J	8.9				
Arsenic	3.9	8.3				
Barium	56	358				
Beryllium	0.0267 U	0.095 J				
Cadmium	0.06 J	1.3				
Calcium	1310	12300				
Chromium	24	32				
Cobalt	9.9	9.7				
Copper	15	271				
Iron	29200	34100				
Lead	26	1060				
Magnesium	3370	6640				
Manganese	349	296				
Mercury	0.097 J	1				
Mercury, Inorganic Salts	0.097 J	1				
Nickel	17 J	21 J				
Potassium	1510 J	1040 J				
Selenium	0.14 J	0.86 J				
Silver	0.362 U	0.39 J				
Sodium	31.4 U	195				
Thallium	0.13 J	0.13 J				
Vanadium	31 J	29 J				
Zinc	50	478				

B - Reported value is less than the Contract Required Detection Limit (CRDL),
but greater than the Instrumental Detection Limit (IDL).

J - Value is estimated

U - Value is not detected

Prepared By/Date: EYM 10/26/11

Checked By/Date: BJR 11/1/11

mg/kg - milligrams per kilograms

Table E-9
Area 2 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI2-101 AI2-101(6- 24)" 5/13/2011 0_5-2 ft	AI2-102 AI2-102(6- 24)" 5/13/2011 0_5-2 ft	AI2-103 AI2-103(6- 24)" 5/13/2011 0_5-2 ft	AI2-104 AI2-104(6- 24)" 5/13/2011 0_5-2 ft	AI2-105 AI2-105(6- 24)" 5/13/2011 0_5-2 ft	AI2-106 AI2-106(6- 24)" 5/13/2011 0_5-2 ft	AI2-107 AI2-107(6- 24)" 5/11/2011 0_5-2 ft	AI2-108 AI2-108(6- 24)" 5/12/2011 0_5-2 ft	AI2-109 AI2-109(6- 24)" 5/11/2011 0_5-2 ft	AI2-110 AI2-110(6- 24)" 5/12/2011 0_5-2 ft	AI2-111 AI2-111(6- 24)" 5/11/2011 0_5-2 ft	AI2-112 AI2-112(6- 24)" 5/11/2011 0_5-2 ft	B-09 Ad2004- SS-9-DP 6/21/2004 1-2 ft	SB-04 FSS-SB- 04-02 8/1/1998 2-3 ft	SB-05 FSS-SB- 05-02 8/1/1998 2-3 ft
Volatile Organics (mg/kg)															
1,1,1-Trichloroethane														0.0049 U	0.0046 U
1,1,2,2-Tetrachloroethane														0.0049 U	0.0046 U
1,1-Dichloroethane														0.0049 U	0.0046 U
1,2,4-Trichlorobenzene														0.0049 U	0.0046 U
1,2-Dichlorobenzene														0.0049 U	0.0046 U
1,2-Dichloroethane														0.0049 U	0.0046 U
1,3-Dichlorobenzene														0.0049 U	0.0046 U
1,3-Dichloropropane														0.0049 U	0.0046 U
1,4-Dichlorobenzene														0.0049 U	0.0046 U
2-Butanone														0.0099 U	0.0091 U
4-Methyl-2-pentanone														0.0099 U	0.0091 U
Acetone														0.043	0.046
Benzene														0.0049 U	0.0046 U
Carbon disulfide														0.0049 U	0.0046 U
Carbon tetrachloride														0.0049 U	0.0046 U
Chlorobenzene														0.0049 U	0.0046 U
Chlorodibromomethane														0.0049 U	0.0046 U
Chloroethane														0.0049 U	0.0046 U
Chloroform														0.0049 U	0.0046 U
Ethyl benzene														0.0049 U	0.0026 J
Methylene chloride														0.0049 U	0.0046 U
Tetrachloroethene														0.0049 U	0.0046 U
Toluene														0.0049 U	0.0046 U
trans-1,2-Dichloroethene														0.0049 U	0.0046 U
Trichloroethene														0.0049 U	0.0046 U
Trichlorotrifluoroethane														0.0049 U	0.0046 U
Vinyl chloride														0.0049 U	0.0046 U
Xylenes, Total														0.0049 U	0.0046 U
Semivolatile Organics (mg/kg)															
1,2-Dichlorobenzene													0.066 U		
1-Methylnaphthalene	0.0057 U	0.0013 J	0.0018 J	0.0011 J	0.001 J	0.014	0.024 J	0.0018 J	0.0012 U	0.002 J	0.0063 J	0.0012 U			
2,4,5-Trichlorophenol													0.033 U		
2,4-Dichlorophenol													0.033 U		
2,4-Dinitrophenol													0.033 U		
2,6-Dinitrotoluene													0.033 U		
2-Chlorophenol													0.033 U		
2-Methylnaphthalene	0.0057 UJ	0.0019 J	0.0032 J	0.0016 J	0.0016 J	0.0068 J	0.015 J	0.0016 J	0.0012 U	0.0022 J	0.0062 J	0.0012 U	0.033 U		
2-Methylphenol													0.033 U		
2-Nitroaniline													0.033 U		
2-Nitrophenol													0.033 U		
3,3'-Dichlorobenzidine													2 U		
3-Nitroaniline													0.033 U		
4-Chloro-3-methylphenol													0.033 U		
4-Chloroaniline													0.17 U		
4-Methylphenol													0.033 U		
4-Nitrophenol													0.066 U		
Acenaphthene	0.0057 U	0.0011 J	0.002 J	0.0026 J	0.0018 J	0.0011 U	0.0054 J	0.0064 J	0.0012 U	0.0076 J	0.035	0.0012 U	0.033 U		
Acenaphthylene	0.015 J	0.0047 J	0.032	0.0094	0.015	0.0077	0.089	0.0036 J	0.002 U	0.0025 J	0.0081	0.002 U	0.033 U		
Anthracene	0.01 J	0.0062 J	0.019	0.017	0.0081	0.0067 J	0.054	0.0089	0.0012 U	0.015	0.082	0.00098 J	0.033 U		
Benzo(a)anthracene	0.059	0.032	0.1	0.071	0.051	0.025	0.24	0.049	0.0064 J	0.039	0.16	0.0041 J	0.033 U		
Benzo(a)pyrene	0.07	0.038	0.12	0.15	0.057	0.031	0.31	0.049	0.0068 J	0.039	0.16	0.0036 J	0.033 U		
Benzo(b)fluoranthene	0.051	0.03	0.12	0.23	0.058	0.03	0.45	0.077	0.011	0.054	0.23	0.006 J	0.066 U		
Benzo(ghi)perylene	0.087	0.046	0.13	0.14	0.063	0.043	0.22	0.036	0.0047 J	0.028	0.1	0.0026 J	0.033 U		
Benzo(k)fluoranthene	0.027 J	0.017 J	0.047 J	0.06 J	0.019 J	0.013 J	0.0096 U	0.0019 U	0.002 U	0.002 U	0.0019 U	0.002 U	0.066 U		

Table E-9
Area 2 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI2-101 AI2-101(6- 24)" 5/13/2011 0_5-2 ft	AI2-102 AI2-102(6- 24)" 5/13/2011 0_5-2 ft	AI2-103 AI2-103(6- 24)" 5/13/2011 0_5-2 ft	AI2-104 AI2-104(6- 24)" 5/13/2011 0_5-2 ft	AI2-105 AI2-105(6- 24)" 5/13/2011 0_5-2 ft	AI2-106 AI2-106(6- 24)" 5/13/2011 0_5-2 ft	AI2-107 AI2-107(6- 24)" 5/11/2011 0_5-2 ft	AI2-108 AI2-108(6- 24)" 5/12/2011 0_5-2 ft	AI2-109 AI2-109(6- 24)" 5/11/2011 0_5-2 ft	AI2-110 AI2-110(6- 24)" 5/12/2011 0_5-2 ft	AI2-111 AI2-111(6- 24)" 5/11/2011 0_5-2 ft	AI2-112 AI2-112(6- 24)" 5/11/2011 0_5-2 ft	B-09 Ad2004- SS-9-DP 6/21/2004 1-2 ft	SB-04 FSS-SB- 04-02 8/1/1998 2-3 ft	SB-05 FSS-SB- 05-02 8/1/1998 2-3 ft
Bis(2-Ethylhexyl)phthalate															0.021 J
Butylbenzylphthalate															0.033 U
Carbazole															0.033 U
Chrysene	0.073	0.043	0.12	0.12	0.056	0.037	0.29	0.052	0.0052 J	0.038	0.16	0.0034 J	0.033 U		
Dibenz(a,h)anthracene	0.017 J	0.011	0.031	0.039	0.016	0.0098	0.06	0.011	0.0024 U	0.0036 J	0.027	0.0024 U	0.66 U		
Dibenzofuran															0.033 U
Diethylphthalate															0.033 U
Dimethylphthalate															0.033 U
Di-n-butylphthalate															0.32
Di-n-octylphthalate															0.033 U
Fluoranthene	0.099	0.065	0.16	0.09	0.083	0.052	0.44	0.087 J	0.0084	0.077	0.44	0.0044 J	0.033 U		
Fluorene	0.0095 U	0.0021 J	0.0036 J	0.0033 J	0.0024 J	0.0019 U	0.0096 U	0.0037 J	0.002 U	0.0054 J	0.027	0.002 U	0.033 U		
Hexachlorobenzene															0.033 U
Indeno(1,2,3-cd)pyrene	0.064	0.034	0.099	0.11	0.052	0.032	0.19	0.032	0.0042 J	0.023	0.088	0.0031 J	0.033 U		
Isophorone															0.033 U
Naphthalene	0.0057 UJ	0.0022 J	0.0086 J	0.0034 J	0.0044 J	0.0034 J	0.012 J	0.004 J	0.0012 U	0.0021 J	0.0075 J	0.0012 U	0.033 U		
Nitrobenzene															0.033 U
Pentachlorophenol															0.033 U
Phenanthrene	0.032 J	0.026 J	0.034 J	0.029 J	0.022 J	0.028 J	0.14	0.058 J	0.0028 J	0.065	0.36	0.0027 J	0.033 U		
Phenol															0.033 U
Pyrene	0.085 J	0.051 J	0.14 J	0.09 J	0.07 J	0.039 J	0.35	0.09 J	0.0063 J	0.075	0.32	0.0037 J	0.0095 J		
Metals (mg/kg)															
Aluminum	10900	9490	9150	9690	9180	8040	8770	8700	10400	10800	6920	9830	12600		
Antimony	0.37 UJ	0.33 J	0.29 J	0.72 J	0.43 UJ	0.44 UJ	0.2 J	0.35 J	0.48 UJ	0.48 UJ	0.86 J	0.48 UJ	0.34 J		
Arsenic	3.2	4.4	2.9	3.4	3.1	3.3	4.2	3.1	2.3	3.2	5.5	2.6	2.1		
Barium	70.8	52.3	79.5	102	66	66.9	94	70.3	71.3	78.1	63.6	89.9	64		
Beryllium	0.59	0.57	0.87	0.8	0.7	0.55	0.63	0.61	0.89	0.82	0.5	0.75	0.17 J		
Cadmium	0.17 J	0.13 J	0.072 J	0.036 J	0.086 J	0.12 J	0.3 J	0.033 J	0.096 U	0.086 J	0.35 J	0.095 U	0.049 J		
Calcium	2080	1560	4390	2320	1560	2630	3780	2340 J	873	837	6550	1990	1010		
Chromium	21.8	17.1	15.3	16.2	17.7	24.8	26	16.2	19.4	19.1	16.3	20.3	17		
Cobalt	7.2	6.7	4.8 J	5.4 J	6	7.4	6.5	6.4	6	5.8 J	6.9	6.9	7.6		
Copper	25.4	19.2	19.6	18.5	23.7	29.3	46.4 J	59.6	28.6 J	18.3	75.1 J	17.4 J	9.6		
Elemental Mercury							0.0004 U		0.0004 U		0.0004 U	0.0003 U			
Iron	16400	15100	11800	13000	13100	14000	15300	14600	14900	14300	13100	14300	17100		
Lead	40.3	57.6	73.2	123	29.8	53.6	225 J	115 J	27.4 J	51.6	207 J	108 J	11		
Magnesium	3230	2310	2220	2380	2420	3030	2850	2780	2170	2350	4720	2600	2670		
Manganese	316	283	557	532	435	369	319 J	378	472 J	541	274 J	486 J	349		
Mercury	0.11	0.083	0.46	0.18	0.39	0.29	0.165 J		0.374 J		1.76 J	0.0819 J	0.028 J		
Mercury, Inorganic Salts															0.028 J
Methyl mercury							0.00103 J		0.000083 J		0.00139 J	0.000063 U			
Nickel	21.3	16.4	15	16.6	18.1	22.2	19.4	17	16.9	16.2	21.5	19.7	14 J		
Potassium	802	556 J	409 J	514 J	725	1110	623	725	617	602	642	872	626 J		
Selenium	0.65 U	0.8 U	0.83 U	0.78 U	0.75 U	0.77 U	0.81 J	0.73 U	0.84 U	0.83 U	0.91 J	0.83 U	0.19 J		
Silver	0.093 U	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U	0.11 J	0.1 U	0.12 U	0.12 U	0.087 J	0.12 U	0.362 U		
Sodium	153 J	76.7 J	98.7 J	214 J	54.2 J	106 J	237 J	153 J	72.2 U	40.6 J	123 J	52.9 J	31.4 U		
Thallium	0.93 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1 U	1.2 U	1.2 U	1.1 U	1.2 U	0.1 J		
Vanadium	30.6	25.3	20	21.3	23.6	25.2	27.5	22.5	20.3	22.7	23.4	21.7	21 J		
Zinc	57	64.7	42.3	46.3	45.2	63	117 J	70.2	32 J	77.3	258 J	58 J	29		

J - Value is estimated
U - Value is not detected

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/1/11

mg/kg - milligrams per kilograms

Table E-10
Area 3 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI3-101 AI3-101(6-24) 5/10/2011 0_5-2 ft	AI3-102 AI3-102(6-24) 5/10/2011 0_5-2 ft	AI3-103 AI3-103(6-24) 5/10/2011 0_5-2 ft	AI3-104 AI3-104(6-24) 5/10/2011 0_5-2 ft	AI3-105 AI3-105(6-24) 5/10/2011 0_5-2 ft	AI3-106 AI3-106(2-4) 5/11/2011 2-4 ft	AI3-106 AI3-106(6-24) 5/11/2011 0_5-2 ft	AI3-107 AI3-107(2-4) 5/11/2011 2-4 ft	AI3-107 AI3-107(6-24) 5/11/2011 0_5-2 ft	AI3-108 AI3-108(6-24) 5/10/2011 0_5-2 ft	AI3-109 AI3-109(6-24) 5/10/2011 0_5-2 ft	AI3-110 AI3-110(2-4) 5/11/2011 2-4 ft	AI3-110 AI3-110(6-24) 5/11/2011 0_5-2 ft	AI3-111 AI3-111(6-24) 5/10/2011 0_5-2 ft	AI3-112 AI3-112(6-12) 5/10/2011 0_5-1 ft	AI3-112 AI3-112(6-24) 5/10/2011 0_5-2 ft
Volatile Organics (mg/kg)																
1,1,1-Trichloroethane																
1,1,2,2-Tetrachloroethane																
1,1-Dichloroethane																
1,2,4-Trichlorobenzene																
1,2-Dichlorobenzene																
1,2-Dichloroethane																
1,3-Dichlorobenzene																
1,3-Dichloropropane																
1,4-Dichlorobenzene																
2-Butanone																
4-Methyl-2-pentanone																
Acetone																
Benzene																
Carbon disulfide																
Carbon tetrachloride																
Chlorobenzene																
Chlorodibromomethane																
Chloroethane																
Chloroform																
Ethyl benzene																
Methylene chloride																
Tetrachloroethene																
Toluene																
trans-1,2-Dichloroethene																
Trichloroethene																
Trichlorotrifluoroethane																
Vinyl chloride																
Xylenes, Total																
Semivolatile Organics (mg/kg)																
1,2-Dichlorobenzene																
1-Methylnaphthalene	0.0036 J	0.0045 J	0.024 U	0.0036 J	0.0093		0.039		0.003 J	0.001 J	0.0031 J		0.0068 J	0.065	0.0013 U	
2,4,5-Trichlorophenol																
2,4-Dichlorophenol																
2,4-Dinitrophenol																
2,6-Dinitrotoluene																
2-Chlorophenol																
2-Methylnaphthalene	0.004 J	0.0058 J	0.015 J	0.0051 J	0.012 J		0.14		0.0038 J	0.0012 J	0.0042 J		0.014	0.076 J	0.00088 J	
2-Methylphenol																
2-Nitroaniline																
2-Nitrophenol																
3,3'-Dichlorobenzidine																
3-Nitroaniline																
4-Chloro-3-methylphenol																
4-Chloroaniline																
4-Methylphenol																
4-Nitrophenol																
Acenaphthene	0.0068 J	0.0071 J	0.024 UJ	0.0034 J	0.0047 J		0.012		0.0023 J	0.0017 J	0.004 J		0.0056 J	0.19 J	0.0013 UJ	
Acenaphthylene	0.0075 J	0.22	0.067 J	0.017	0.06		0.012		0.0074 J	0.0047 J	0.028		0.058	0.56	0.0031 J	
Anthracene	0.023 J	0.12 J	0.058 J	0.016 J	0.041 J		0.047		0.0087	0.0073 J	0.025 J		0.038	0.67 J	0.0022 J	
Benzo(a)anthracene	0.11 J	0.46 J	0.19 J	0.064 J	0.16 J		0.088		0.039	0.036 J	0.11 J		0.17	1.4 J	0.0071 J	
Benzo(a)pyrene	0.12 J	0.54 J	0.24 J	0.07 J	0.18 J		0.079		0.045	0.038 J	0.12 J		0.2	1.4 J	0.011 J	
Benzo(b)fluoranthene	0.2 J	0.88 J	0.34 J	0.13 J	0.27 J		0.13		0.066	0.062 J	0.2 J		0.33	2.2 J	0.019 J	
Benzo(ghi)perylene	0.11	0.4	0.22	0.069	0.14		0.07		0.04	0.031 J	0.085		0.15	0.98	0.0089	
Benzo(k)fluoranthene	0.002 U	0.002 U	0.04 U	0.0019 U	0.002 U		0.0019 U		0.0022 U	0.002 U	0.002 U		0.0019 U	0.0093 U	0.0022 U	
Bis(2-Ethylhexyl)phthalate																

Table E-10
Area 3 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI3-101 AI3-101(6-24) 5/10/2011 0_5-2 ft	AI3-102 AI3-102(6-24) 5/10/2011 0_5-2 ft	AI3-103 AI3-103(6-24) 5/10/2011 0_5-2 ft	AI3-104 AI3-104(6-24) 5/10/2011 0_5-2 ft	AI3-105 AI3-105(6-24) 5/10/2011 0_5-2 ft	AI3-106 AI3-106(2-4) 5/11/2011 2-4 ft	AI3-106 AI3-106(6-24) 5/11/2011 0_5-2 ft	AI3-107 AI3-107(2-4) 5/11/2011 2-4 ft	AI3-107 AI3-107(6-24) 5/11/2011 0_5-2 ft	AI3-108 AI3-108(6-24) 5/10/2011 0_5-2 ft	AI3-109 AI3-109(6-24) 5/10/2011 0_5-2 ft	AI3-110 AI3-110(4) 5/11/2011 2-4 ft	AI3-110 AI3-110(6-24) 5/11/2011 0_5-2 ft	AI3-111 AI3-111(6-24) 5/10/2011 0_5-2 ft	AI3-112 AI3-112(6-12) 5/10/2011 0_5-1 ft	AI3-112 AI3-112(6-24) 5/10/2011 0_5-2 ft
Butylbenzylphthalate																
Carbazole																
Chrysene	0.11 J	0.48 J	0.2 J	0.074 J	0.19 J		0.087		0.041	0.046 J	0.12 J		0.16	1.3 J	0.011 J	
Dibenz(a,h)anthracene	0.03	0.13	0.045 J	0.014	0.043		0.016		0.0084 J	0.0084 J	0.024		0.041	0.23	0.0026 U	
Dibenzofuran																
Diethylphthalate																
Dimethylphthalate																
Di-n-butylphthalate																
Di-n-octylphthalate																
Fluoranthene	0.26 J	0.91 J	0.31 J	0.14 J	0.23 J		0.17		0.065	0.075 J	0.21 J		0.21	2.4 J	0.014 J	
Fluorene	0.0081 J	0.024 J	0.04 UJ	0.0048 J	0.0089 J		0.017		0.0023 J	0.0023 J	0.0067 J		0.0074 J	0.21 J	0.0022 UJ	
Hexachlorobenzene																
Indeno(1,2,3-cd)pyrene	0.096	0.39	0.16	0.061	0.12		0.061		0.029	0.029 J	0.074		0.14	0.89	0.0085 J	
Isophorone																
Naphthalene	0.0069 J	0.011 J	0.024 UJ	0.007 J	0.011 J		0.053		0.0038 J	0.0022 J	0.0061 J		0.011	0.1 J	0.0013 UJ	
Nitrobenzene																
Pentachlorophenol																
Phenanthrene	0.16 J	0.35 J	0.18 J	0.073 J	0.091 J		0.16		0.029	0.044 J	0.089 J		0.069	1.8 J	0.0059 J	
Phenol																
Pyrene	0.2 J	0.68 J	0.26 J	0.11 J	0.2 J		0.13		0.063	0.061 J	0.17 J		0.2	1.9 J	0.011 J	
Total Organic Carbon																
Metals (mg/kg)																
Aluminum	11500	10500	10900	8610	11500	6650	8340	9230	10100	11300	10200	5940	9210	9610	12500	
Antimony	0.47 UJ	0.43 UJ	0.29 J	0.2 J	0.21 J	1.2 J	0.42 J	0.19 J	0.37 J	0.44 UJ	0.45 UJ	0.24 J	0.4 J	0.44 UJ	0.5 UJ	
Arsenic	4.4	5.5	17.4	5.1	18.9	4.2	10.4	3.4	7.7	2.8 J	4.3	5.3	8.4	6.7	2.6	
Barium	41.4	46.9	105	40.1	75.3	48.1	49.3	57.3	55.7	49.8	42.4	53	56.2	76.8	57.3	
Beryllium	0.73	0.78	0.57	0.6	0.79	0.44	0.5	0.56	0.53	0.87	0.74	0.45	0.53	0.65	1.1	
Cadmium	0.04 J	0.083 J	0.5 J	0.099 J	0.21 J	0.11 J	0.51 J	0.091 U	0.24 J	0.034 J	0.16 J	0.14 J	0.21 J	0.19 J	0.099 U	
Calcium	314 J	814 J	2420 J	450 J	1260 J	3270	5840	1910	5100	267 J	582 J	2180	1960	6690 J	331 J	
Chromium	22.1	19.4	20.3	16.9	26.2	15.1	19.1	17.9	21	16.4	19.6	15.3	20.1	24.5	22.1	
Cobalt	5 J	5.8	4.3 J	6	5.8	6	6.7	5.5 J	6 J	4.1 J	6.3	5.2 J	6.1	7.7	6.8	
Copper	19.4	23.4	37.6	22.3	33.6	166 J	47.9 J	24.3 J	29.3 J	12.6 J	22	36.4 J	28.6 J	27.8	9.8	
Elemental Mercury				0.0003 U	0.0003 U									0.0002 U		0.0003 U
Iron	16500	14800	14200	14700	15600	17300	16500	14500	17300	12200	14500	12900	15700	16500	14800	
Lead	30.7 J	44.7 J	265 J	132 J	114 J	152 J	212 J	55.9 J	168 J	21.3 J	55.7 J	86.4 J	122 J	68.2 J	15.5 J	
Magnesium	2570 J	2470 J	1820 J	1990 J	2530 J	3150	3610	2400	2720	2120 J	2430 J	2340	2310	6390 J	2590 J	
Manganese	188	281	217	293	210	278 J	269 J	221 J	382 J	245 J	307	231 J	325 J	324	463	
Mercury				0.262 J	0.299 J									0.357 J		0.128 J
Mercury, Inorganic Salts																
Methyl mercury				0.000354 J	0.000781 J									0.000238 J		0.000179 J
Nickel	17.9	19	14.2	14.4	18.5	25.6	18.8	16.1	17.6	13.3	17.2	16.6	17.2	22.5	18.7	
Potassium	651	576	672	717	534 J	797	824	706	863	356 J	503 J	1040	938	1770	544 J	
Selenium	0.83 U	0.42 J	0.41 J	0.76 U	0.8 U	0.47 J	0.76 J	0.46 J	0.49 J	0.77 U	0.78 U	0.44 J	0.37 J	0.76 U	0.87 U	
Silver	0.12 U	0.11 U	0.11 U	0.11 U	0.11 U	0.085 J	0.1 J	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U	0.078 J	0.11 U	0.12 U	
Sodium	32.6 J	51.7 J	115 J	65.5 U	58.6 J	88.7 J	21.9 J	57.3 J	102 J	66.3 U	109 J	29.2 J	31.1 J	436 J	19 J	
Thallium	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	
Vanadium	28.6	24.3	30.7	23.3	25.6	20.4	36.7	22.1	29.3	19.8 J	34.9	20	27	32	25.3	
Zinc	42.3 J	59.1 J	179 J	63.5 J	97.3 J	142 J	246 J	66.3 J	98.6 J	40.3 J	53.8 J	72.1 J	91.2 J	127 J	45 J	

Table E-10
Area 3 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-01 Ad2004- SS-1-DP 6/21/2004 1-2 ft	B-02 Ad2004- SS-2-DP 6/21/2004 1-2 ft	B-03 Ad2004- SS-3-DP 6/21/2004 1-2 ft	B-04 Ad2004- SS-4-DP 6/21/2004 1-2 ft	SB-06 FSS-SB- 06-02 8/1/1998 2-3 ft	SB-06 FSS-SB- 06-03 8/1/1998 6-7 ft	SB-07 FSS-SB- 07-04 8/1/1998 2-3 ft
Volatile Organics (mg/kg)							
1,1,1-Trichloroethane					0.0064 U	0.0049 U	0.005 U
1,1,1,2,2-Tetrachloroethane					0.0064 U	0.0049 U	0.005 U
1,1-Dichloroethane					0.0064 U	0.0049 U	0.005 U
1,2,4-Trichlorobenzene					0.0064 U	0.0049 U	0.005 U
1,2-Dichlorobenzene					0.0064 U	0.0049 U	0.005 U
1,2-Dichloroethane					0.0064 U	0.0049 U	0.005 U
1,3-Dichlorobenzene					0.0064 U	0.0049 U	0.005 U
1,3-Dichloropropane					0.0064 U	0.0049 U	0.005 U
1,4-Dichlorobenzene					0.0064 U	0.0049 U	0.005 U
2-Butanone					0.013 U	0.0098 U	0.01 U
4-Methyl-2-pentanone					0.013 U	0.0098 U	0.01 U
Acetone					0.038	0.01	0.081
Benzene					0.0064 U	0.0049 U	0.005 U
Carbon disulfide					0.0064 U	0.0049 U	0.005 U
Carbon tetrachloride					0.0064 U	0.0049 U	0.005 U
Chlorobenzene					0.0064 U	0.0049 U	0.005 U
Chlorodibromomethane					0.0064 U	0.0049 U	0.005 U
Chloroethane					0.0064 U	0.0049 U	0.005 U
Chloroform					0.0064 U	0.0049 U	0.005 U
Ethyl benzene					0.0027 J	0.0031 J	0.005 U
Methylene chloride					0.0064 U	0.0049 U	0.005 U
Tetrachloroethene					0.0064 U	0.0049 U	0.005 U
Toluene					0.0064 U	0.0049 U	0.005 U
trans-1,2-Dichloroethene					0.0064 U	0.0049 U	0.005 U
Trichloroethene					0.0064 U	0.0049 U	0.005 U
Trichlorotrifluoroethane					0.0064 U	0.0049 U	0.005 U
Vinyl chloride					0.0055 J	0.0049 U	0.005 U
Xylenes, Total					0.0064 U	0.0049 U	0.005 U
Semivolatile Organics (mg/kg)							
1,2-Dichlorobenzene	0.033 U	0.033 U	0.033 U	0.033 U			
1-Methylnaphthalene							
2,4,5-Trichlorophenol	0.033 U	0.033 U	0.033 U	0.033 U			
2,4-Dichlorophenol	0.033 U	0.033 U	0.033 U	0.033 U			
2,4-Dinitrophenol	0.033 U	0.033 U	0.033 U	0.033 U			
2,6-Dinitrotoluene	0.033 U	0.033 U	0.033 U	0.033 U			
2-Chlorophenol	0.033 U	0.033 U	0.033 U	0.033 U			
2-Methylnaphthalene	0.033 U	0.045	0.033 U	0.033 U			
2-Methylphenol	0.033 U	0.033 U	0.033 U	0.033 U			
2-Nitroaniline	0.033 U	0.033 U	0.033 U	0.033 U			
2-Nitrophenol	0.033 U	0.033 U	0.033 U	0.033 U			
3,3'-Dichlorobenzidine	2 U	2 U	2 U	2 U			
3-Nitroaniline	0.033 U	0.033 U	0.033 U	0.033 U			
4-Chloro-3-methylphenol	0.008 J	0.0066 J	0.033 U	0.033 U			
4-Chloroaniline	0.17 U	0.17 U	0.17 U	0.17 U			
4-Methylphenol	0.033 U	0.033 U	0.033 U	0.033 U			
4-Nitrophenol	0.066 U	0.066 U	0.066 U	0.066 U			
Acenaphthene	0.033 U	0.018 J	0.033 U	0.033 U			
Acenaphthylene	0.033 U	0.16	0.033 U	0.033 U		0.086 J	
Anthracene	0.013 J	0.1	0.033 U	0.033 U			
Benzo(a)anthracene	0.075	0.61	0.033 U	0.033 U		0.31 J	
Benzo(a)pyrene	0.1	0.5	0.033 U	0.033 U		0.28 J	
Benzo(b)fluoranthene	0.073 J	0.45	0.66 U	0.66 U		0.4 J	
Benzo(ghi)perylene	0.073 J	0.31 J	0.033 U	0.033 U		0.18 J	
Benzo(k)fluoranthene	0.049 J	0.23 J	0.66 U	0.66 U		0.16 J	
Bis(2-Ethylhexyl)phthalate	0.074 J	0.11 J	0.063 J	0.24		0.35 J	

Table E-10
Area 3 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-01 Ad2004- SS-1-DP 6/21/2004 1-2 ft	B-02 Ad2004- SS-2-DP 6/21/2004 1-2 ft	B-03 Ad2004- SS-3-DP 6/21/2004 1-2 ft	B-04 Ad2004- SS-4-DP 6/21/2004 1-2 ft	SB-06 FSS-SB- 06-02 8/1/1998 2-3 ft	SB-06 FSS-SB- 06-03 8/1/1998 6-7 ft	SB-07 FSS-SB- 07-04 8/1/1998 2-3 ft
Butylbenzylphthalate	0.015 J	0.031 J	0.033 U	0.033 U			
Carbazole	0.0075 J	0.04	0.033 U	0.033 U			
Chrysene	0.08 J	0.51 J	0.033 U	0.033 U		0.35 J	
Dibenz(a,h)anthracene	0.026 J	0.19 J	0.66 U	0.66 U			
Dibenzofuran	0.033 U	0.016 J	0.033 U	0.033 U			
Diethylphthalate	0.033 U	0.033 U	0.033 U	0.033 U			
Dimethylphthalate	0.033 U	0.033 U	0.033 U	0.033 U			
Di-n-butylphthalate	0.06	0.091	0.032 J	0.042 J			
Di-n-octylphthalate	0.033 U	0.033 U	0.033 U	0.033 U			
Fluoranthene	0.12	1	0.018 J	0.033 U		0.47	
Fluorene	0.033 U	0.036	0.033 U	0.033 U			
Hexachlorobenzene	0.033 U	0.033 U	0.033 U	0.033 U			
Indeno(1,2,3-cd)pyrene	0.072 J	0.44 J	0.033 U	0.033 U		0.22 J	
Isophorone	0.033 U	0.033 U	0.033 U	0.033 U			
Naphthalene	0.033 U	0.018 J	0.033 U	0.033 U			
Nitrobenzene	0.033 U	0.033 U	0.033 U	0.033 U			
Pentachlorophenol	0.033 U	0.033 U	0.033 U	0.033 U			
Phenanthrene	0.064	0.44	0.033 U	0.033 U		0.25 J	
Phenol	0.033 U	0.033 U	0.033 U	0.033 U			
Pyrene	0.13 J	0.79 J	0.015 J	0.033 U		0.53	
Total Organic Carbon						19700	
Metals (mg/kg)							
Aluminum	14800	9680	14900	13600		6760	
Antimony	0.61	0.64	0.07 J	0.098 J		0.25 BN	
Arsenic	10	4.4	2.1	2.4		1.2	
Barium	80	58	46	25		31.1	
Beryllium	0.11 J	0.18 J	0.28 J	0.14 J		0.19 B	
Cadmium	0.84	0.46 J	0.07 J	0.051 J		0.14 B	
Calcium	3340	2390	314	440		1200	
Chromium	25	16	19	16		12.6	
Cobalt	7.5	6.4	6.7	7.3		1.8 B	
Copper	2470	63	10	15		35.7	
Elemental Mercury							
Iron	20100	16200	17100	22100		6930	
Lead	139	176	14	8.6		44.2	
Magnesium	3380	2465	2690	3780		1410 X	
Manganese	339	228	293	198		58.9	
Mercury	0.8	2.7	0.077 J	0.0077 U		0.29	
Mercury, Inorganic Salts	0.8	2.7	0.077 J	0.0077 U		0.29	
Methyl mercury							
Nickel	20 J	15 J	16 J	13 J		7.8	
Potassium	1450 J	833 J	668 J	1200 J		361	
Selenium	0.62 J	0.51 J	0.43 J	0.094 J			
Silver	0.362 U	0.362 U	0.362 U	0.362 U			
Sodium	68	119	31.4 U	31.4 U		296	
Thallium	0.19 J	0.14 J	0.13 J	0.092 J		0.12 B	
Vanadium	36 J	27 J	22 J	24 J		17.5	
Zinc	231	105	43	40		50.4	

Notes:
J - Value is estimated
U - Value is not detected
X -

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/11/11

mg/kg - milligrams per kilograms

Table E-11
Area 4 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI4-101 AI4-101(6-24) 5/10/2011 0_5-2 ft	AI4-102 AI4-102(6-24) 5/12/2011 0_5-2 ft	AI4-103 AI4-103(6-24) 5/12/2011 0_5-2 ft	AI4-104 AI4-104(6-24) 5/12/2011 0_5-2 ft	AI4-105 AI4-105(6-24) 5/11/2011 0_5-2 ft	AI4-106 AI4-106(6-24) 5/11/2011 0_5-2 ft	AI4-107 AI4-107(6-24) 5/12/2011 0_5-2 ft	AI4-108 AI4-108(6-24) 5/12/2011 0_5-2 ft	AI4-109 AI4-109(6-24) 5/12/2011 0_5-2 ft	AI4-110 AI4-110(6-24) 5/12/2011 0_5-2 ft	AI4-111 AI4-111(6-24) 5/12/2011 0_5-2 ft	AI4-112 AI4-112(6-24) 5/11/2011 0_5-2 ft	AI4-113 AI4-113(6-24) 5/12/2011 0_5-2 ft	AI4-114 AI4-114(6-24) 5/12/2011 0_5-2 ft	AI4-115 AI4-115(6-24) 5/11/2011 0_5-2 ft	B-05 Ad2004-SS-5-DP 6/21/2004 1-2 ft
Volatile Organics (mg/kg)																
1,1,1-Trichloroethane																
1,1,2,2-Tetrachloroethane																
1,1-Dichloroethane																
1,2,4-Trichlorobenzene																
1,2-Dichlorobenzene																
1,2-Dichloroethane																
1,3-Dichlorobenzene																
1,3-Dichloropropane																
1,4-Dichlorobenzene																
2-Butanone																
4-Methyl-2-pentanone																
Acetone																
Benzene																
Carbon disulfide																
Carbon tetrachloride																
Chlorobenzene																
Chlorodibromomethane																
Chloroethane																
Chloroform																
Ethyl benzene																
Methylene chloride																
Tetrachloroethene																
Toluene																
trans-1,2-Dichloroethene																
Trichloroethene																
Trichlorotrifluoroethane																
Vinyl chloride																
Xylenes, Total																
Semivolatile Organics (mg/kg)																
1,2-Dichlorobenzene																0.033 U
1-Methylnaphthalene		0.0021 J	0.0079	0.0047 J	0.008	0.016 J	0.0037 J	0.0174 U	0.0037 J	0.0065 J	0.025	0.0014 J	0.00086 J	0.0011 J	0.0025 J	0.033 U
2,4,5-Trichlorophenol																0.033 U
2,4-Dichlorophenol																0.033 U
2,4-Dinitrophenol																0.033 U
2,6-Dinitrotoluene																0.033 U
2-Chlorophenol																0.033 U
2-Methylnaphthalene		0.0023 J	0.0059 J	0.0061 J	0.01	0.032 J	0.0051 J	0.0174 U	0.0042 J	0.0089	0.0375	0.0025 J	0.0014 J	0.0014 J	0.003 J	0.033 U
2-Methylphenol																0.033 U
2-Nitroaniline																0.033 U
2-Nitrophenol																0.033 U
3,3'-Dichlorobenzidine																2 U
3-Nitroaniline																0.033 U
4-Chloro-3-methylphenol																0.033 U
4-Chloroaniline																0.17 U
4-Methylphenol																0.033 U
4-Nitrophenol																0.066 U
Acenaphthene		0.0011 U	0.003 J	0.0012 U	0.0042 J	0.043 J	0.0012 U	0.024 J	0.0031 J	0.0032 J	0.12	0.0019 J	0.0036 J	0.0028 J	0.0056 J	0.033 U
Acenaphthylene		0.021	0.051	0.013	0.11	1.5	0.027	0.27	0.008	0.019	0.034	0.039	0.067	0.014	0.016	0.033 U
Anthracene		0.012	0.022	0.0057 J	0.04	0.62	0.017	0.27	0.0088	0.012	0.21	0.017	0.03	0.012	0.02	0.033 U
Benzo(a)anthracene		0.079	0.12	0.029	0.24	4.7	0.073	1.3	0.043	0.051	0.41	0.096	0.2	0.051	0.069	0.028 J
Benzo(a)pyrene		0.1	0.16	0.043	0.36	6.4	0.095	0.98	0.056	0.068	0.35	0.14	0.24	0.065	0.094	0.041 J
Benzo(b)fluoranthene		0.15	0.22	0.064	0.58	8.8	0.14	3.2	0.093	0.094	0.32	0.21	0.24	0.097	0.14	0.036 J
Benzo(ghi)perylene		0.083	0.12	0.041	0.35	5.3	0.097	0.76	0.049	0.053	0.3	0.13	0.28	0.05	0.069	0.033 J
Benzo(k)fluoranthene		0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.027 U	0.002 U	0.029 U	0.002 U	0.002 U	0.2	0.0019 U	0.1	0.002 U	0.0038 U	0.029 J
Bis(2-Ethylhexyl)phthalate																0.039

Table E-11
Area 4 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	A14-101 A14-101(6-24) 5/10/2011 0_5-2 ft	A14-102 A14-102(6-24) 5/12/2011 0_5-2 ft	A14-103 A14-103(6-24) 5/12/2011 0_5-2 ft	A14-104 A14-104(6-24) 5/12/2011 0_5-2 ft	A14-105 A14-105(6-24) 5/11/2011 0_5-2 ft	A14-106 A14-106(6-24) 5/11/2011 0_5-2 ft	A14-107 A14-107(6-24) 5/12/2011 0_5-2 ft	A14-108 A14-108(6-24) 5/12/2011 0_5-2 ft	A14-109 A14-109(6-24) 5/12/2011 0_5-2 ft	A14-110 A14-110(6-24) 5/12/2011 0_5-2 ft	A14-111 A14-111(6-24) 5/12/2011 0_5-2 ft	A14-112 A14-112(6-24) 5/11/2011 0_5-2 ft	A14-113 A14-113(6-24) 5/12/2011 0_5-2 ft	A14-114 A14-114(6-24) 5/12/2011 0_5-2 ft	A14-115 A14-115(6-24) 5/11/2011 0_5-2 ft	B-05 Ad2004-SS-5-DP 6/21/2004 1-2 ft
Butylbenzylphthalate																0.033 U
Carbazole																0.033 U
Chrysene		0.082	0.16	0.039	0.29	4.3	0.079	3.2	0.06	0.057	0.38	0.082	0.19	0.065	0.084	0.033 J
Dibenz(a,h)anthracene		0.015	0.022	0.01	0.077	1.2	0.017	0.18	0.013	0.011	0.11	0.029	0.078	0.012	0.014 J	0.66 U
Dibenzofuran																0.033 U
Diethylphthalate																0.033 U
Dimethylphthalate																0.033 U
Di-n-butylphthalate																0.068
Di-n-octylphthalate																0.033 U
Fluoranthene		0.11	0.22	0.051	0.41	6.6	0.13	5.8	0.081	0.085	0.86	0.098	0.32	0.1	0.14	0.04
Fluorene		0.0026 J	0.007 J	0.0014 J	0.0066 J	0.091 J	0.0021 J	0.05 J	0.0032 J	0.004 J	0.094	0.0033 J	0.0036 J	0.0028 J	0.006 J	0.033 U
Hexachlorobenzene																0.033 U
Indeno(1,2,3-cd)pyrene		0.07	0.1	0.035	0.29	4.4	0.076	0.67	0.047	0.047	0.27	0.11	0.24	0.044	0.059	0.024 J
Isophorone																0.033 U
Naphthalene		0.0034 J	0.0074 J	0.0046 J	0.012	0.083 J	0.0059 J	0.024 J	0.004 J	0.0041 J	0.042	0.0057 J	0.0032 J	0.0019 J	0.004 J	0.033 U
Nitrobenzene																0.033 U
Pentachlorophenol																0.033 U
Phenanthrene		0.033	0.1	0.015	0.069	1.1	0.04	0.41	0.033	0.05	0.64	0.022	0.03	0.05	0.067	0.012 J
Phenol																0.033 U
Pyrene		0.12	0.27	0.057	0.36	6.1	0.12	5.9	0.081	0.084	0.48	0.11	0.23	0.095	0.12	0.038 J
Metals (mg/kg)																
Aluminum	10300															21300
Antimony	0.37 UJ															0.15 J
Arsenic	3.1															2.4
Barium	69.4															73
Beryllium	0.54 U															0.11 J
Cadmium	0.055 J															0.047 J
Calcium	3360 J															1430
Chromium	20.7															33
Cobalt	6.2															12
Copper	19.6															23
Elemental Mercury					0.0002 U	0.0003 U						0.0003 U			0.0003 U	
Iron	13900															30800
Lead	39 J															14
Magnesium	3680 J															5670
Manganese	476															485
Mercury					0.0938 J	0.0661 J						0.0775 J			0.0654 J	0.021 J
Mercury, Inorganic Salts																0.021 J
Methyl mercury					0.000322 J	0.00031 J						0.000409 J			0.000639 J	
Nickel	16.8															24 J
Potassium	724															3330 J
Selenium	0.65 U															0.19 J
Silver	0.093 U															0.362 U
Sodium	360 J															229
Thallium	0.93 U															0.25 J
Vanadium	22.4															40 J
Zinc	61.3 J															44

Notes:

- B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).
- E - Reported value is estimated due to interference.
- J - Value is estimated
- N - Spiked sample recovery was not within normal limits
- U - Value is not detected
- X -
- mg/kg - milligrams per kilograms

Table E-11
Area 4 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-06 Ad2004- SS-6-DP 6/21/2004 1-2 ft	B-07 Ad2004- SS-7-DP 6/21/2004 1-2 ft	B-08 Ad2004- SS-8-DP 6/21/2004 1-2 ft	SB-01 FSS-SB- 01-02 8/1/1998 2-3 ft	SB-02 FSS-SB- 02-02 8/1/1998 2-3 ft	SB-03 FSS-SB- 03-02 8/1/1998 2-3 ft
Volatile Organics (mg/kg)						
1,1,1-Trichloroethane				0.0048 U	0.0043 U	
1,1,1,2-Tetrachloroethane				0.0048 U	0.0043 U	
1,1-Dichloroethane				0.0048 U	0.0043 U	
1,2,4-Trichlorobenzene				0.0048 U	0.0043 U	
1,2-Dichlorobenzene				0.0048 U	0.0043 U	
1,2-Dichloroethane				0.0048 U	0.0043 U	
1,3-Dichlorobenzene				0.0048 U	0.0043 U	
1,3-Dichloropropane				0.0048 U	0.0043 U	
1,4-Dichlorobenzene				0.0048 U	0.0043 U	
2-Butanone				0.0097 U	0.0037 J	
4-Methyl-2-pentanone				0.0097 U	0.0087 U	
Acetone				0.039	0.031	
Benzene				0.0048 U	0.0043 U	
Carbon disulfide				0.0048 U	0.0043 U	
Carbon tetrachloride				0.0048 U	0.0043 U	
Chlorobenzene				0.0048 U	0.0043 U	
Chlorodibromomethane				0.0048 U	0.0043 U	
Chloroethane				0.0048 U	0.0043 U	
Chloroform				0.0048 U	0.0043 U	
Ethyl benzene				0.0048 U	0.0043 U	
Methylene chloride				0.0048 U	0.0043 U	
Tetrachloroethene				0.0048 U	0.0043 U	
Toluene				0.0048 U	0.0043 U	
trans-1,2-Dichloroethene				0.0048 U	0.0043 U	
Trichloroethene				0.0014 J	0.0043 U	
Trichlorotrifluoroethane				0.0048 U	0.0043 U	
Vinyl chloride				0.0021 J	0.0043 U	
Xylenes, Total				0.0048 U	0.0043 U	
Semivolatile Organics (mg/kg)						
1,2-Dichlorobenzene	0.033 U	0.033 U	0.00369 U			
1-Methylnaphthalene						
2,4,5-Trichlorophenol	0.033 U	0.033 U				
2,4-Dichlorophenol	0.033 U	0.033 U				
2,4-Dinitrophenol	0.033 U	0.033 U				
2,6-Dinitrotoluene	0.033 U	0.033 U				
2-Chlorophenol	0.033 U	0.033 U				
2-Methylnaphthalene	0.033 U	0.033 U				
2-Methylphenol	0.033 U	0.033 U				
2-Nitroaniline	0.033 U	0.033 U				
2-Nitrophenol	0.033 U	0.033 U				
3,3'-Dichlorobenzidine	2 U	2 U	2 U			
3-Nitroaniline	0.033 U	0.033 U				
4-Chloro-3-methylphenol	0.033 U	0.033 U	0.00551 U			
4-Chloroaniline	0.17 U	0.17 U	0.17 U			
4-Methylphenol	0.033 U	0.033 U	0.00537 U			
4-Nitrophenol	0.066 U	0.066 U	0.066 U			
Acenaphthene	0.033 U	0.033 U	0.011 J			
Acenaphthylene	0.016 J	0.026 J	0.049			
Anthracene	0.033 U	0.016 J	0.045			0.13 J
Benzo(a)anthracene	0.13	0.33	0.39			0.57
Benzo(a)pyrene	0.15 J	0.3 J	0.36			0.62
Benzo(b)fluoranthene	0.13 J	0.19 J	0.36			0.91
Benzo(ghi)perylene	0.14 J	0.25 J	0.26			0.44
Benzo(k)fluoranthene	0.14 J	0.18 J	0.21			0.35 J
Bis(2-Ethylhexyl)phthalate	0.17 J	0.026 J	0.089			0.36 J

Table E-11
Area 4 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	B-06 Ad2004- SS-6-DP 6/21/2004 1-2 ft	B-07 Ad2004- SS-7-DP 6/21/2004 1-2 ft	B-08 Ad2004- SS-8-DP 6/21/2004 1-2 ft	SB-01 FSS-SB- 01-02 8/1/1998 2-3 ft	SB-02 FSS-SB- 02-02 8/1/1998 2-3 ft	SB-03 FSS-SB- 03-02 8/1/1998 2-3 ft
Butylbenzylphthalate	0.033 U	0.033 U	0.0086 J			
Carbazole	0.033 U	0.023 J	0.028 J			
Chrysene	0.12 J	0.29 J	0.48			0.73
Dibenz(a,h)anthracene	0.058 J	0.12 J	0.084			0.13 J
Dibenzofuran	0.033 U	0.033 U	0.0084 J			
Diethylphthalate	0.033 U	0.033 U				
Dimethylphthalate	0.033 U	0.033 U				
Di-n-butylphthalate	0.16	0.23	0.032 J			
Di-n-octylphthalate	0.033 U	0.033 U	0.00691 U			
Fluoranthene	0.17	0.44	0.75			1.1
Fluorene	0.033 U	0.033 U	0.028 J			
Hexachlorobenzene	0.033 U	0.033 U				
Indeno(1,2,3-cd)pyrene	0.12 J	0.28 J	0.29			0.46
Isophorone	0.033 U	0.033 U				
Naphthalene	0.033 U	0.0072 J	0.08			
Nitrobenzene	0.033 U	0.033 U				
Pentachlorophenol	0.033 U	0.033 U	0.00552 U			
Phenanthrene	0.03 J	0.058	0.45			0.73
Phenol	0.033 U	0.033 U				
Pyrene	0.16 J	0.44 J	0.76			1.2
Metals (mg/kg)						
Aluminum	18400	11700	11800			8470
Antimony	0.23 J	0.68	0.55			1.2 N
Arsenic	3	3	4.9			4.9
Barium	61	88	120			90
Beryllium	0.053 J	0.13 J	0.21 J			0.42 B
Cadmium	0.13 J	0.13 J	0.44 J			
Calcium	1460	2380	2600			2110 X
Chromium	31	20	21			17.8 X
Cobalt	11	8.6	7.3			6.3 B
Copper	21	29	30			35.4
Elemental Mercury						
Iron	25900	20900	17900			15600
Lead	24	152	298			183
Magnesium	4280	3680	2620			2240 N
Manganese	452	440	380			404
Mercury	0.068 J	0.27	0.3			0.86
Mercury, Inorganic Salts	0.068 J	0.27	0.3			0.86
Methyl mercury						
Nickel	22 J	19 J	17			16.4
Potassium	1450 J	1680 J	1060			1170 E
Selenium	0.38 J	0.38 J	0.27 J			0.73
Silver	0.362 U	0.362 U	0.45 U			0.27 B
Sodium	32 J	55	70			139
Thallium	0.19 J	0.17 J	0.15 J			
Vanadium	37 J	23 J	24			28.8
Zinc	49	71	200			115

Notes:

B - Reported value is less than the Contract
E - Reported value is estimated due to inter
J - Value is estimated
N - Spiked sample recovery was not within
U - Value is not detected
X -
mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11

Checked/Date: BJR 11/1/11

Table E-12
Area 5 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	615-SB-01 5/9/2006 3 7-3 7 ft	615-SB-01 RE 5/9/2006 3 7-3 7 ft	615-SB-02 5/9/2006 2-2 ft	615-SB-03 5/9/2006 3 5-3 5 ft	615-SB-04 10/30/200 6 2 5-	615-SB-05 10/30/200 6 2 7-	615-SB-06 10/31/200 6 5-5 ft	615-SB-10 10/31/200 6 4 8-	615-SB-11 10/31/200 6 4-4 ft	615-SB-15 3/22/2007 7-7 ft	615-SB-16 3/22/2007 0-7 ft	615-SB-17 3/22/2007 0-7 ft	615-SB-18 3/22/2007 0-7 ft	AI5-101 5/10/2011 2-6 ft	AI5-101(2-24) 5/10/2011 0 5-2 ft	AI5-102 5/10/2011 2-6 ft	AI5-102(6-24) 5/10/2011 0 5-2 ft	AI5-103 5/10/2011 2-6 ft	AI5-103(2-24) 5/10/2011 0 5-2 ft	AI5-104 5/10/2011 2-6 ft
Volatile Organics (mg/kg)																				
1,1,1-Trichloroethane																				
1,1,2,2-Tetrachloroethane																				
1,1-Dichloroethane																				
1,2,4-Trichlorobenzene																				
1,2-Dichlorobenzene																				
1,2-Dichloroethane																				
1,3-Dichlorobenzene																				
1,3-Dichloropropane																				
1,4-Dichlorobenzene																				
2-Butanone																				
4-Methyl-2-pentanone																				
Acetone																				
Benzene																				
Carbon disulfide																				
Carbon tetrachloride																				
Chlorobenzene																				
Chlorodibromomethane																				
Chloroethane																				
Chloroform																				
Ethyl benzene																				
Methylene chloride	0.00011 B																			
Tetrachloroethene																				
Toluene																				
trans-1,2-Dichloroethene																				
Trichloroethene																				
Trichlorotrifluoroethane																				
Vinyl chloride																				
Xylenes, Total																				
Semivolatile Organics (mg/kg)																				
Anthracene	0.067 J	0.065 J																		
Benzo(a)anthracene	0.25 J	0.27 J																		
Benzo(a)pyrene	0.22 J	0.23 J																		
Benzo(b)fluoranthene	0.31 J	0.37																		
Benzo(ghi)perylene	0.091 J	0.1 J																		
Benzo(k)fluoranthene	0.15 J	0.16 J																		
Bis(2-Ethylhexyl)phthalate																				
Chrysene	0.29 J	0.29 J																		
Fluoranthene	0.5	0.47																		
Indeno(1,2,3-cd)pyrene		0.066 J																		
Phenanthrene	0.26 J	0.26 J																		
Phenol	0.52	0.53																		
Pyrene	0.54	0.78																		
Metals (mg/kg)																				
Aluminum	5580													6850	9430	7740	5700	6530	9580	6260
Antimony	0.365 U													0.43 UJ	0.42 UJ	0.42 UJ	0.43 UJ	0.45 UJ	0.44 UJ	0.44 UJ
Arsenic	3.36													2.5	3.9	1.9	2	2	2.4	2.4
Barium	38.3													27.2	31.8	24.1	15.8 J	32.2	84.1	32.5
Beryllium	0.327 J													0.33 U	0.34 U	0.34 U	0.29 U	0.35 U	0.49 U	0.33 U
Cadmium	0.325 J													0.086 U	0.084 U	0.084 U	0.085 U	0.089 U	0.088 U	0.088 U
Calcium	8770													1280 J	508 J	4960 J	567 J	980 J	4700 J	1260 J
Chromium	10.3													19.9	18.6	19.1	10.5	14.1	28.9	15.8
Cobalt	5.1 J													3.6 J	5.4	11.4	15.8	4.4 J	8.5	5.3 J
Copper	29.1													13.9	10.4	14.1	7.4	28.8	24.9	12
Elemental Mercury																				
Iron	9680													11200	14800	11900	9160	12000	17700	13000
Lead	56.5													7.5 J	7.6 J	5.5 J	4.1 J	78.3 J	39.6 J	18.8 J
Magnesium	5590													2020 J	2390 J	2340 J	1210 J	1880 J	5540 J	2200 J
Manganese	209													103	143	209	253	177	339	190
Mercury	0.123		1.9	1.6	0.088	1.9	0.77	2.3	1	9.8	6.6	12.2	2							
Mercury, Inorganic Salts	0.123		1.9	1.6	0.088	1.9	0.77	2.3	1	9.8	6.6	12.2	2							

Table E-12
Area 5 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	615-SB-01 615-SB01 5/9/2006 3 7-3 7 ft	615-SB-01 615-SB01 RE 5/9/2006 3 7-3 7 ft	615-SB-02 615-SB02 5/9/2006 2-2 ft	615-SB-03 615-SB03 5/9/2006 3 5-3 5 ft	615-SB-04 615-SB04 10/30/2006 6 2 5-	615-SB-05 615-SB05 10/30/2006 6 2 7-	615-SB-06 615-SB06 10/31/2006 6 5-5 ft	615-SB-10 615-SB10 10/31/2006 6 4 8-	615-SB-11 615-SB11 10/31/2006 6 4-4 ft	615-SB-15 615-SB15 3/22/2007 7-7 ft	615-SB-16 615-SB16 3/22/2007 0-7 ft	615-SB-17 615-SB17 3/22/2007 0-7 ft	615-SB-18 615-SB18 3/22/2007 0-7 ft	AI5-101 AI5-101(2-6) 5/10/2011 2-6 ft	AI5-101 AI5-101(6-24) 5/10/2011 0 5-2 ft	AI5-102 AI5-102(2-6) 5/10/2011 2-6 ft	AI5-102 AI5-102(6-24) 5/10/2011 0 5-2 ft	AI5-103 AI5-103(2-6) 5/10/2011 2-6 ft	AI5-103 AI5-103(6-24) 5/10/2011 0 5-2 ft	AI5-104 AI5-104(2-6) 5/10/2011 2-6 ft
Methyl mercury														11.3	11.4	19.1	9.8	11.3	25.5	11.9
Nickel	21.1													587	688	647	507 J	711	2880	1030
Potassium	640													0.75 U	0.73 U	0.73 U	0.75 U	0.78 U	0.77 U	0.77 U
Selenium	0.38 U													0.11 U	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U
Silver	1.35													0.11 U	0.1 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U
Sodium	374 J													70.3 J	567	185 J	70.4 J	97.1 J	488 J	97.1 J
Thallium	0.587 U													1.1 U	1 U	1 U	1.1 U	1.1 U	1.1 U	1.1 U
Vanadium	17.6													17.9	24	22.5	16.5	17.2	30.7	20.6
Zinc	62.4													30.2 J	31.7 J	29 J	19.4 J	92.3 J	53.2 J	38.9 J

Table E-12
Area 5 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI5-104(6-24) 5/10/2011 0-5-2 ft	AI5-105(2-6) 5/11/2011 2-6 ft	AI5-105(6-24) 5/11/2011 0-5-2 ft	AI5-106(2-6) 5/11/2011 2-6 ft	AI5-106(6-24) 5/11/2011 0-5-2 ft	AI5-107(2-6) 5/11/2011 2-6 ft	AI5-107(6-24) 5/11/2011 0-5-2 ft	AI5-108(2-6) 5/11/2011 2-6 ft	AI5-108(6-24) 5/11/2011 0-5-2 ft	AI5-109(2-6) 5/10/2011 2-6 ft	AI5-109(6-24) 5/10/2011 0-5-2 ft	AI5-110(2-6) 5/11/2011 2-6 ft	AI5-110(6-24) 5/11/2011 0-5-2 ft	SB-08 FSS-SB-08-02 8/1/1998	SB-08 FSS-SB-08-03 8/1/1998
Volatile Organics (mg/kg)															
1,1,1-Trichloroethane														0.0048 U	0.0047 U
1,1,2,2-Tetrachloroethane														0.0048 U	0.0047 U
1,1-Dichloroethane														0.0048 U	0.0047 U
1,2,4-Trichlorobenzene														0.0048 U	0.0047 U
1,2-Dichlorobenzene														0.0048 U	0.0047 U
1,2-Dichloroethane														0.0048 U	0.0047 U
1,3-Dichlorobenzene														0.0048 U	0.0047 U
1,3-Dichloropropane														0.0048 U	0.0047 U
1,4-Dichlorobenzene														0.0048 U	0.0047 U
2-Butanone														0.0095 U	0.0093 U
4-Methyl-2-pentanone														0.0095 U	0.0093 U
Acetone														0.013	0.012
Benzene														0.0048 U	0.0047 U
Carbon disulfide														0.0048 U	0.0047 U
Carbon tetrachloride														0.0048 U	0.0047 U
Chlorobenzene														0.0048 U	0.0047 U
Chlorodibromomethane														0.0048 U	0.0047 U
Chloroethane														0.0048 U	0.0047 U
Chloroform														0.0048 U	0.0047 U
Ethyl benzene														0.0048 U	0.0047 U
Methylene chloride														0.0048 U	0.0047 U
Tetrachloroethene														0.0048 U	0.0047 U
Toluene														0.0048 U	0.0047 U
trans-1,2-Dichloroethene														0.0048 U	0.0047 U
Trichloroethene														0.0048 U	0.0047 U
Trichlorotrifluoroethane														0.0048 U	0.0047 U
Vinyl chloride														0.012	0.0047 U
Xylenes, Total														0.0048 U	0.0047 U
Semivolatile Organics (mg/kg)															
Anthracene															
Benzo(a)anthracene															
Benzo(a)pyrene															
Benzo(b)fluoranthene															
Benzo(ghi)perylene															
Benzo(k)fluoranthene															
Bis(2-Ethylhexyl)phthalate															
Chrysene															
Fluoranthene															
Indeno(1,2,3-cd)pyrene															
Phenanthrene															
Phenol															
Pyrene															
Metals (mg/kg)															
Aluminum	15200	7290	8080	7220	9590	8740	7700	9770	7970	8210	8610	3660	9370		6180
Antimony	0.47 UJ	0.45 UJ	0.25 J	0.31 J	1.9 J	1.1 J	0.44 UJ	0.25 J	0.2 J	0.41 UJ	0.43 UJ	0.46 UJ	0.44 UJ		0.61 BN
Arsenic	2.9	2	2.2 J	2.3	3.4	1.6	2.8	3.5	3.2	2.3	2.7	2	2.8		1.4
Barium	156	43.6	71.3 J	43.3	50.7	68.3	48.9	43	39	36.6	40.9	102	46.5		37.5
Beryllium	0.72	0.44 J	0.45	0.5	0.48	0.53	0.47	0.51	0.46	0.36 U	0.4 U	0.29 J	0.51		0.25 B
Cadmium	0.094 U	0.091 U	0.088 U	0.09 U	0.088 U	0.087 U	0.087 U	0.15 J	0.45 J	0.21 J	0.097 J	0.093 U	0.088 U		
Calcium	2940 J	1070	3350 J	2570	865	1660	661	1900	1070	14900 J	1540 J	629	2070		1180
Chromium	45.2	20	21.1	15.7	19.8	24.9	17.8	19.8	17.6	12.5	18.1	11.4	19.9		22.7
Cobalt	13.4	4.9 J	7.6 J	5 J	5.8	9.3	6.5	6.6	6.3	3.1 J	4.7 J	5.9	6.8		6.6
Copper	35.7	15.7 J	66.9 J	32.9 J	17.7 J	17.4 J	18.7 J	24.3 J	18.1 J	13.8	21.1	16.3 J	19.5 J		13.1
Elemental Mercury			0.0003 U		0.0003 U										
Iron	25200	13400	17200	14000	16500	16900	17300	20100	22100	10200	13900	14800	16900		13700
Lead	72.8 J	24.7 J	106 J	81.6 J	106 J	8.5 J	26.7 J	60.1 J	85.6 J	35.5 J	56 J	5.3 J	22.7 J		42.2
Magnesium	7280 J	2420	4010 J	2300	2530	3270	2140	2450	2090	2150 J	2290 J	1170	2990		2180 X
Manganese	510	193 J	205 J	278 J	267 J	233 J	421 J	350 J	324 J	129	186	476 J	186 J		237
Mercury			1.72 J		1.26 J										0.48
Mercury, Inorganic Salts															0.48

Table E-12
Area 5 Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	AI5-104 AI5-104(6- 24) 5/10/2011 0.5-2 ft	AI5-105 AI5-105(2- 6) 5/11/2011 2-6 ft	AI5-105 AI5-105(6- 24) 5/11/2011 0.5-2 ft	AI5-106 AI5-106(2- 6) 5/11/2011 2-6 ft	AI5-106 AI5-106(6- 24) 5/11/2011 0.5-2 ft	AI5-107 AI5-107(2- 6) 5/11/2011 2-6 ft	AI5-107 AI5-107(6- 24) 5/11/2011 0.5-2 ft	AI5-108 AI5-108(2- 6) 5/11/2011 2-6 ft	AI5-108 AI5-108(6- 24) 5/11/2011 0.5-2 ft	AI5-109 AI5-109(2- 6) 5/10/2011 2-6 ft	AI5-109 AI5-109(6- 24) 5/10/2011 0.5-2 ft	AI5-110 AI5-110(2- 6) 5/11/2011 2-6 ft	AI5-110 AI5-110(6- 24) 5/11/2011 0.5-2 ft	SB-08 FSS-SB- 08-02 8/1/1998 2-3 ft	SB-08 FSS-SB- 08-03 8/1/1998 8-10 ft
Methyl mercury			0.000209 J		0.000062 U										
Nickel	36.4	14.2	19.7	13.5	18.3	25.7	20.3	18.1	15.8	10.4	14.3	13.6	18.7		13.1
Potassium	5320	1230	2290 J	873	1140	2260	1140	837	805	431 J	775	712	1180		1180
Selenium	0.83 U	0.79 U	0.64 J	0.79 U	0.77 U	0.76 U	0.76 U	0.45 J	0.77 U	0.72 U	0.75 U	0.81 U	0.68 J		
Silver	0.12 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.1 U	0.11 U	0.12 U	0.11 U		
Sodium	451 J	155 J	373 J	410 J	207 J	370 J	310 J	114 J	72.7 J	356 J	435 J	100 J	267 J		236
Thallium	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1.2 U	1.1 U		
Vanadium	44.9	20.7	28.3 J	17.4	24.3	28.7	23.4	24	21.5	16.3	22.5	11.5	25.6		17.4
Zinc	116 J	38.3 J	71.3 J	61.9 J	126 J	38.1 J	31.5 J	195 J	339 J	261 J	58.4 J	24.2 J	41 J		39.5

Notes:

B - Reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrumental Detection Limit (IDL).

J - Value is estimated

N - Spiked sample recovery was not within normal limits

U - Value is not detected

X -

mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11

Checked/Date: BJR 11/1/11

Table E-13
Background Subsurface Soil Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	BKG-01	BKG-02	BKG-03	BKG-04	BKG-05	BKG-06	BKG-07	BKG-08	BKG-09	BKG-10	BKG-11	BKG-12	BKG-13	BKG-14	BKG-15
	BKG-SD-01 9/16/2008 1_5-2 ft	BKG-SD-02 9/16/2008 1_5-2 ft	BKG-SD-03 9/16/2008 1_5-2 ft	BKG-SD-04 9/16/2008 1_5-2 ft	BKG-SD-05 9/16/2008 1_5-2 ft	BKG-SD-06 9/16/2008 1_5-2 ft	BKG-SD-07 9/16/2008 1_5-2 ft	BKG-SD-08 9/16/2008 1_5-2 ft	BKG-SD-09 9/16/2008 1_5-2 ft	BKG-SD-10 9/16/2008 1_5-2 ft	BKG-SD-11 9/16/2008 1_5-2 ft	BKG-SD-12 9/16/2008 1_5-2 ft	BKG-SD-13 9/16/2008 1_5-2 ft	BKG-SD-14 9/16/2008 1_5-2 ft	BKG-SD-15 9/16/2008 1_5-2 ft
Indeno(1,2,3-cd)pyrene	0.17	0.002 J	0.012	0.0084 J	0.0083	0.17	0.097	0.012	0.053	0.027	0.0079 J	0.0048 J	0.003 J	0.021	0.0011 U
Isophorone	0.0046 U	0.0048 U	0.0049 U	0.0051 U	0.0043 U	0.0051 U	0.0045 U	0.0048 U	0.0049 U	0.0046 U	0.0047 U	0.0044 U	0.0045 U	0.0047 U	0.0046 U
Naphthalene	0.014	0.00081 U	0.0012 J	0.00084 U	0.00072 U	0.029	0.0064 J	0.00079 U	0.0028 J	0.0035 J	0.00079 U	0.00074 U	0.00075 U	0.0012 J	0.00076 U
Nitrobenzene	0.0065 U	0.0069 U	0.007 U	0.0072 U	0.0061 U	0.0073 U	0.0064 U	0.0067 U	0.0069 U	0.0066 U	0.0067 U	0.0062 U	0.0063 U	0.0066 U	0.0065 U
N-Nitrosodi-n-propylamine	0.0038 U	0.004 U	0.0041 U	0.0042 U	0.0036 U	0.0043 U	0.0037 U	0.004 U	0.0041 U	0.0039 U	0.004 U	0.0037 U	0.0037 U	0.0039 U	0.0038 U
N-Nitrosodiphenylamine	0.0034 U	0.0036 U	0.0037 U	0.0038 U	0.0032 U	0.0038 U	0.0034 U	0.0036 U	0.0037 U	0.01	0.0036 U	0.0033 U	0.0034 U	0.0035 U	0.0034 U
Pentachlorophenol	0.017 UJ	0.018 UJ	0.018 UJ	0.019 U	0.016 U	0.019 U	0.017 U	0.018 U	0.018 UJ	0.017 U	0.018 U	0.017 U	0.017 U	0.018 UJ	0.017 UJ
Phenanthrene	0.89	0.0016 J	0.019	0.012	0.015	1	0.17	0.04	0.2	0.057	0.0091	0.0055 J	0.0015 J	0.027	0.0046 J
Phenol	0.0096 U	0.01 U	0.01 U	0.01 U	0.009 U	0.011 U	0.0094 U	0.0099 U	0.01 U	0.0097 U	0.0099 U	0.0092 U	0.0093 U	0.0098 U	0.0096 U
Pyrene	1.9	0.0048 J	0.047	0.033 J	0.038 J	1.1 J	0.35 J	0.078	0.31	0.12	0.024	0.012 J	0.0034 J	0.081	0.013
Metals (mg/kg)															
Aluminum	9040	11700	11700	13500	6300	9170	7290	11600 J	12600	10700 J	11100 J	9720	15700	12000	8340
Antimony	0.2 J	0.21 U	0.21 U	0.25 U	0.22 U	0.36 J	0.28 J	0.2 UJ	0.3 J	1.2 J	0.21 UJ	0.22 U	0.22 U	0.2 U	0.2 U
Arsenic	3.8	4.2	3.5	6.2	2.3	3.9	3.5	6.7	4.5	5.3	3.8	2.6	4.1	5.7	3.4
Barium	78.4	53.5	74	71	33.5	203	70.8	88.5	81	103	64.4	39.6	57.9	72.9	42.8
Beryllium	0.42	0.41	0.45	0.77	0.26	0.37	0.44	0.48	0.44	0.51	0.42	0.31	0.64	0.52	0.35
Cadmium	0.1 J	0.02 U	0.19 J	0.16 J	0.13 J	0.53 J	0.3 J	0.39 J	0.15 J	0.53	0.21 J	0.14 J	0.25 J	0.11 J	0.45 J
Calcium	4910	1440	1040	840	1070	20300	3010	2320	9540	1450	853	299	323	2260	895
Chromium	17.7	26.1	26.4	17.3	19	19.2	14.9	21.6	21.5	28.6	18	18.7	25.6	20.1	17.6
Cobalt	6.1	12.2	7.5	5.5	5.9	6.9	7.5	6.7	6.4	7.1	5.4	6.6	11.4	6.2	5.2
Copper	28.1	13.9	35.6	11.8	13.2	32.1	23.3	35.8	30.9	70.3	12.3	7.8	19.9	28.4	17.6
Iron	17200	21500	16600	14400	15100	17900	14800	16900 J	17600	17400 J	18900 J	16200	25300	16600	13500
Lead	134	14.9	70.4	16.6	9.3	218	128	108	80.6	203	44.2	9.5	11.8	67.2	62.5
Magnesium	2480	3220	2990	2150	1600	4160	2250	2490 J	3020	1760 J	1550 J	1490	3830	2320	1920
Manganese	318	426	367	572	287	292	298	362 J	275	291 J	347 J	220	578	392	239
Mercury	0.52	0.033 J	0.09	0.093	0.011 J	0.53	0.11	0.48	0.27	0.038	0.051	0.018 J	0.0064 J	0.8	0.12
Mercury, Inorganic Salts	0.52	0.033 J	0.09		0.011 J	0.53	0.11	0.48	0.27	0.038	0.051	0.018 J	0.0064 J	0.8	0.12
Nickel	20.2	23.5	64.4	20.8	28.3	83.3	41.3	76.4	62	18.5	23.8	13.4	30.8	27.2	33.4
Potassium	992	972	1330	425	818	2080	995	865 J	1100	538 J	414 J	286	1270	676	808
Selenium	0.37 U	0.39 U	0.4 U	0.46 U	0.42 U	0.43 U	0.41 U	0.39 J	0.39 U	0.36 U	0.39 U	0.41 U	0.41 U	0.37 U	0.38 U
Silver	0.032 UJ	0.029 U	0.03 U	0.035 U	0.031 U	0.033 U	0.065 J	0.029 U	0.03 U	0.027 U	0.029 U	0.031 U	0.031 U	0.028 U	0.028 U
Sodium	192 UJ	96.3 UJ	104 UJ	74.4 UJ	112 UJ	110 UJ	153 UJ	214 U	109 UJ	235 UJ	109 UJ	84.6 UJ	91.5 UJ	110 UJ	273 U
Thallium	0.45 U	0.66 J	0.49 U	0.79 J	0.51 U	0.53 U	0.5 U	0.47 U	0.48 U	0.44 U	0.6 J	0.5 U	0.83 J	0.45 U	0.46 U
Vanadium	26.4	29.6	34.9	22.2	24.2	28.1	21.4	29.8	31.8	34.2	24.9	23.3	31.5	30.5	24.3
Zinc	77.4	37.6	88.7	36	24.1	194	81.1	86.6 J	73.5	460 J	55.9 J	28.1	46.9	110	55.1

Notes:
J - Value is estimated
U - Value is not detected

Prepared/Date: EYM 10/31/11
Checked/Date: BJR 11/1/11

mg/kg - milligrams per kilograms

Table E-14
Groundwater Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	MW-1 5/9/2011	MW-2 5/9/2011	MW-3 5/9/2011	MW-4 5/9/2011	MW-5 5/9/2011
Volatile Organics (mg/kg)					
1,1,1-Trichloroethane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
1,1-Dichloroethane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
1,1-Dichloroethene	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
1,2,4-Trichlorobenzene	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
1,2-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethene (total)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
1,3-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	0.0015 UJ	0.0015 UJ	0.0015 UJ	0.0015 UJ	0.0015 UJ
2-Hexanone	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
4-Methyl-2-pentanone	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Acetone	0.002 UJ	0.002 UJ	0.002 UJ	0.002 UJ	0.002 UJ
Benzene	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Bromobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Bromoform	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Bromomethane	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Carbon disulfide	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Carbon tetrachloride	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Chlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorodibromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	0.0015 U	0.014	0.0015 U	0.014 J	0.0015 U
Chloromethane	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methylene chloride	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Styrene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.0015 UJ	0.0015 UJ	0.0015 UJ	0.0015 UJ	0.0015 UJ
Xylenes, Total	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Semivolatile Organics (mg/kg)					
1-Methylnaphthalene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U
2-Methylnaphthalene	0.000019 U	0.000019 U	0.000019 U	0.000019 U	0.000019 U
Acenaphthene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U
Acenaphthylene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U
Anthracene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U
Benzo(a)anthracene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00022
Benzo(a)pyrene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00018 J
Benzo(b)fluoranthene	0.000028 U	0.000028 U	0.000029 U	0.000033 J	0.00024
Benzo(ghi)perylene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00031
Benzo(k)fluoranthene	0.000095 U	0.000094 U	0.000096 U	0.000095 U	0.00028
Chrysene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00023
Dibenz(a,h)anthracene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00026
Fluoranthene	0.000028 U	0.000028 U	0.000029 U	0.000044 J	0.00004 J
Fluorene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U
Indeno(1,2,3-cd)pyrene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.00027
Naphthalene	0.000028 U	0.000028 U	0.000029 U	0.000028 U	0.000028 U

Table E-14
Groundwater Analytical Data Used in Human Health Risk Assessment
Second Supplemental Remedial Investigation
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter	MW-1 5/9/2011	MW-2 5/9/2011	MW-3 5/9/2011	MW-4 5/9/2011	MW-5 5/9/2011
Phenanthrene	0.000095 U	0.000094 U	0.000096 U	0.000095 U	0.000095 U
Pyrene	0.000028 U	0.000028 U	0.000029 U	0.000037 J	0.000044 J
Metals (mg/kg)					
Aluminum	0.0729 J	0.0641 J	0.0661 J	0.111 J	0.0656 J
Antimony	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Arsenic	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Barium	0.0488 J	0.0066 J	0.0555 J	0.0509 J	0.0471 J
Beryllium	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U
Calcium	17	12.4	52.5	72.1	26.3
Chromium	0.0025 U	0.0013 J	0.0059	0.0043 J	0.001 J
Cobalt	0.0025 U	0.0025 U	0.0025 U	0.0008 J	0.0025 U
Copper	0.005 U	0.005 U	0.005 U	0.0133 J	0.005 U
Iron	0.04 U	0.04 U	0.04 U	0.108 J	0.04 U
Lead	0.003 U	0.003 U	0.003 U	0.0018 J	0.003 U
Magnesium	9.44	4.08 J	22.4	22.3	17.1
Manganese	0.0038 J	0.002 U	0.002 U	0.0083 J	0.0199
Nickel	0.0041 J	0.003 U	0.003 U	0.0133 J	0.0076 J
Potassium	2 J	0.948 J	1.66 J	3.42 J	1.36 J
Selenium	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Silver	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
Sodium	31.7	7.02	9.83	85.6	36.6
Thallium	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Vanadium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Zinc	0.012 U	0.012 U	0.012 U	0.0326	0.012 U
Mercury	0.000075 U	0.000075 U	0.000075 U	0.000039 J	0.000075 U

Notes:

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mg/kg - milligrams per kilograms

Prepared/Date: EYM 10/31/11

Checked/Date: BJR 11/1/11