

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)			
AA10B	FS15	9.9	FS15-5.0-5.5	5.0 - 5.5 ft	4.9	4.4	JB63136-3	JB63136	03/27/2014	removed	N	Y		0.19	J	S1		
AA10B	FS15	9.9	FS15-5.0-5.5X	5.0 - 5.5 ft	4.9	4.4	JB63136-4	JB63136	03/27/2014	removed	FD	Y		0.35	J	S1		
AA10B	FS15	9.9	FS15-7.0-7.5	7.0 - 7.5 ft	2.9	2.4	JB63136-5	JB63136	03/27/2014	remaining	N	Y		9.2	J	S2		
AA10B	FS15	9.9	FS15-8.0-8.5	8.0 - 8.5 ft	1.9	1.4	JB63136-6	JB63136	03/27/2014	remaining	N	Y		18.0	J			
AA10B	FS15	9.9	FS15-10.0-10.5	10.0 - 10.5 ft	-0.1	-0.6	JB63136-8	JB63136	03/27/2014	remaining	N	Y		11.4	J			
AA10B	FS15	9.9	FS15-11.0-11.5	11.0 - 11.5 ft	-1.1	-1.6	JB63136-9	JB63136	03/27/2014	remaining	N	Y	UNDno (SM)	12.1	J	S3		
AA10B	FS15	9.9	FS15-13.0-13.5	13.0 - 13.5 ft	-3.1	-3.6	JB63136-10	JB63136	03/27/2014	remaining	N	Y	UNDno (SM)	34.1	J	S3		
AA10B	FS15	9.9	FS15-15.0-15.5	15.0 - 15.5 ft	-5.1	-5.6	JB63136-11	JB63136	03/27/2014	remaining	N	Y	UNDno (SM)	21.9	J	S3		
AA10B	FS15	9.9	FS15-16.0-16.5	16.0 - 16.5 ft	-6.1	-6.6	JB63136-12	JB63136	03/27/2014	remaining	N	Y		10.6	J			
AA10B	FS15	9.9	FS15-18.0-18.5	18.0 - 18.5 ft	-8.1	-8.6	JB63136-13	JB63136	03/27/2014	remaining	N	Y		15.9				
AA10B	FS15	9.9	FS15-20.0-20.5	20.0 - 20.5 ft	-10.1	-10.6	JB63136-15	JB63136	03/27/2014	remaining	N	Y		19.4				
AA10B	FS15	9.9	FS15-22.0-22.5	22.0 - 22.5 ft	-12.1	-12.6	JB63136-16	JB63136	03/27/2014	remaining	N	Y	SM	37.1		S4		
AA10B	FS15	9.9	FS15-24.0-24.5	24.0 - 24.5 ft	-14.1	-14.6	JB63136-17	JB63136	03/27/2014	remaining	N	Y	SM	50.2		S4		
AA10B	FS15	9.9	FS15-26.0-26.5	26.0 - 26.5 ft	-16.1	-16.6	JB63136-19	JB63136	03/27/2014	remaining	N	Y	SM	23.9		S4		
AA10B	FS15	9.9	FS15-28.0-28.5	28.0 - 28.5 ft	-18.1	-18.6	JB63136-20	JB63136	03/27/2014	remaining	N	Y		15.4				
AA10B	FS15	9.9	FS15-30.0-30.5	30.0 - 30.5 ft	-20.1	-20.6	JB63136-21	JB63136	03/27/2014	remaining	N	Y		14.3				
AA10B	FS15	9.9	FS15-32.0-32.5	32.0 - 32.5 ft	-22.1	-22.6	JB63136-22	JB63136	03/27/2014	remaining	N	Y	SM	23.9		S4		
AA10B	FS15	9.9	FS15-34.0-34.5	34.0 - 34.5 ft	-24.1	-24.6	JB63136-23	JB63136	03/27/2014	remaining	N	Y	SM	33.6		S4		
AA10B	FS15	9.9	FS15-36.0-36.5	36.0 - 36.5 ft	-26.1	-26.6	JB63136-24	JB63136	03/27/2014	remaining	N	Y		1.2				
AA10B	FS15	9.9	FS15-38.0-38.5	38.0 - 38.5 ft	-28.1	-28.6	JB63136-25	JB63136	03/27/2014	remaining	N	Y		0.22	J			
AA11B	EF-06	10.3	EF-B06-2.0	2.0 - 2.5 ft	8.3	7.8	460-25254-11	460252541	04/12/2011	remaining	N	Y		< 0.59	U	S5, S6		
AA11B	EF-06	10.3	EF-B06-4.0	4.0 - 4.5 ft	6.3	5.8	460-25254-13	460252541	04/12/2011	remaining	N	Y		1.0	J	S5, S6		
AA11B	EF-06	10.3	EF-B06-6.0	6.0 - 6.5 ft	4.3	3.8	460-25301-1	460253011	04/13/2011	remaining	N	Y		< 0.61	U	S5, S7		
AA11B	EF-06	10.3	EF-B06-10.0	10.0 - 10.5 ft	0.3	-0.2	460-25301-2	460253011	04/13/2011	remaining	N	Y		< 0.60	U	S5		
AA11B	EF-06	10.3	EF-B06-12.0	12.0 - 12.5 ft	-1.7	-2.2	460-25301-3	460253011	04/13/2011	remaining	N	Y	UNDno (SM)	32.4		S5, S7		
AA11B	EF-06	10.3	EF-B06-17.0	17.0 - 17.5 ft	-6.7	-7.2	460-25301-4	460253011	04/13/2011	remaining	N	Y	UNDno (SM)	44.8		S5, S7		
AA11B	EF-06	10.3	EF-B06-22.0	22.0 - 22.5 ft	-11.7	-12.2	460-25301-5	460253011	04/13/2011	remaining	N	Y	SM	98.8		S5, S8		
AA11B	FS2	10.0	FS2-8.0-8.5	8.0 - 8.5 ft	2.0	1.5	JB62810-1	JB62810	03/24/2014	remaining	N	Y	FILL (FILL)	54.1		S5, S7		
AA11B	FS2	10.0	FS2-10.0-10.5	10.0 - 10.5 ft	0.0	-0.5	JB62810-3	JB62810	03/24/2014	remaining	N	Y	FILL (FILL)	55.9		S5, S7		
AA11B	FS2	10.0	FS2-12.0-12.5	12.0 - 12.5 ft	-2.0	-2.5	JB62810-4	JB62810	03/24/2014	remaining	N	Y	UNDno (SM)	21.9		S5, S7		
AA11B	FS2	10.0	FS2-15.0-15.5	15.0 - 15.5 ft	-5.0	-5.5	JB62810-5	JB62810	03/24/2014	remaining	N	Y		17.0		S5		
AA11B	FS2	10.0	FS2-15.0-15.5X	15.0 - 15.5 ft	-5.0	-5.5	JB62810-6	JB62810	03/24/2014	remaining	FD	Y		18.1		S5		
AA11B	FS2	10.0	FS2-17.0-17.5	17.0 - 17.5 ft	-7.0	-7.5	JB62810-7	JB62810	03/24/2014	remaining	N	Y		14.8		S5		
AA11B	FS2	10.0	FS2-18.0-18.5	18.0 - 18.5 ft	-8.0	-8.5	JB62810-8	JB62810	03/24/2014	remaining	N	Y		10.6		S5		
AA11B	FS2	10.0	FS2-20.0-20.5	20.0 - 20.5 ft	-10.0	-10.5	JB62810-10	JB62810	03/24/2014	remaining	N	Y	SM	25.0		S5, S8		
AA11B	FS2	10.0	FS2-22.0-22.5	22.0 - 22.5 ft	-12.0	-12.5	JB62810-11	JB62810	03/24/2014	remaining	N	Y	SM	24.6		S5, S8		
AA11B	FS2	10.0	FS2-24.0-24.5	24.0 - 24.5 ft	-14.0	-14.5	JB62810-12	JB62810	03/24/2014	remaining	N	Y	SM	23.4		S5, S8		
AA11B	FS2	10.0	FS2-26.0-26.5	26.0 - 26.5 ft	-16.0	-16.5	JB62810-13	JB62810	03/24/2014	remaining	N	Y	SM	37.2		S5, S8		
AA11B	FS2	10.0	FS2-28.0-28.5	28.0 - 28.5 ft	-18.0	-18.5	JB62810-14	JB62810	03/24/2014	remaining	N	Y	SM	84.2		S5, S8		
AA11B	FS2	10.0	FS2-30.0-30.5	30.0 - 30.5 ft	-20.0	-20.5	JB62810-16	JB62810	03/24/2014	remaining	N	Y		0.64		S5		
AA11B	FS2	10.0	FS2-32.0-32.5	32.0 - 32.5 ft	-22.0	-22.5	JB62810-17	JB62810	03/24/2014	remaining	N	Y		0.28	J	S5		
AA11B	FS2	10.0	FS2-34.0-34.5	34.0 - 34.5 ft	-24.0	-24.5	JB62810-18	JB62810	03/24/2014	remaining	N	Y		0.16	J	S5		
AA11B	FS2	10.0	FS2-36.0-36.5	36.0 - 36.5 ft	-26.0	-26.5	JB62810-19	JB62810	03/24/2014	remaining	N	Y		0.27	J	S5		
AA11B	FS2	10.0	FS2-38.0-38.5	38.0 - 38.5 ft	-28.0	-28.5	JB62810-20	JB62810	03/24/2014	remaining	N	Y		0.11	J	S5		
AA11B	FS-AA10B-SW-N2	9.9	FS-AA10B-SW-N-2.9-3.4	2.9 - 3.4 ft	7.0	6.5	JC46311-2	JC46311	07/01/2017	remaining	N	Y		< 0.43	UJ	S1, S5, S6		
AA11B	FSTP3-SewerLine	10.2	FSTP3-6.8-7.3	6.8 - 7.3 ft	3.4	2.9	JB61214-2	JB61214	03/06/2014	remaining	N	Y		18.2	J	S5		
AA11B	P4-FOR-AA11B	10.3	P4-FOR-AA11B-6.5-7.0	6.5 - 7.0 ft	3.8	3.3	JC22346-3	JC22346	06/16/2016	remaining	N	Y		0.81	J	S5		
AA11B	P4-FOR-AA11BR	10.3	P4-FOR-AA11BR-7.0-7.5	7.0 - 7.5 ft	3.3	2.8	JC29975-3	JC29975	10/19/2016	remaining	N	Y	FILL (FILL)	47.3	J	S5, S7		

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Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		Specific Notes (G22)
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
AA11B	P4-FOR-AA11BR	10.3	P4-FOR-AA11BR-14.0-14.5	14.0 - 14.5 ft	-3.7	-4.2	JC29975-2R	JC29975R	10/19/2016	remaining	N	Y		19.1	J	S5
AA11B	P4-FOR-AA12B	9.8	P4-FOR-AA12B-2.0-2.5	2.0 - 2.5 ft	7.8	7.3	JC22762-3	JC22762	06/22/2016	remaining	N	Y		0.64	J	S5, S7
AA11B	P4-FOR-AA12B	9.8	P4-FOR-AA12B-4.0-4.5	4.0 - 4.5 ft	5.8	5.3	JC22762-4	JC22762	06/22/2016	remaining	N	Y		< 0.36	UJ	S5, S7
AA11B	P4-FOR-AA12B	9.8	P4-FOR-AA12B-6.0-6.5	6.0 - 6.5 ft	3.8	3.3	JC22762-5R	JC22762R	06/22/2016	remaining	N	Y	FILL (FILL)	61.7	J	S5, S7
AA11B	P4-FOR-AA12B	9.8	P4-FOR-AA12B-6.5-7.0	6.5 - 7.0 ft	3.3	2.8	JC22762-6R	JC22762R	06/22/2016	remaining	N	Y	UNDno (ML)	40.4	J	S5, S7
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-8.0-8.5	8.0 - 8.5 ft	1.7	1.2	JC30142-9	JC30142	10/20/2016	remaining	N	Y		1.3	J	S5
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-10.0-10.5	10.0 - 10.5 ft	-0.3	-0.8	JC30142-2	JC30142	10/20/2016	remaining	N	Y		0.39	J	S5
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-12.0-12.5	12.0 - 12.5 ft	-2.3	-2.8	JC30142-3	JC30142	10/20/2016	remaining	N	Y	UNDno (ML)	22.3	J	S5, S7
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-14.0-14.5	14.0 - 14.5 ft	-4.3	-4.8	JC30142-4	JC30142	10/20/2016	remaining	N	Y	UNDno (SW)	30.0	J	S5, S7
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-16.0-16.5	16.0 - 16.5 ft	-6.3	-6.8	JC30142-5	JC30142	10/20/2016	remaining	N	Y		9.2	J	S5
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-16.0-16.5X	16.0 - 16.5 ft	-6.3	-6.8	JC30142-6	JC30142	10/20/2016	remaining	FD	Y		12.0	J	S5
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-18.0-18.5	18.0 - 18.5 ft	-8.3	-8.8	JC30142-7	JC30142	10/20/2016	remaining	N	Y		10.5	J	S5
AA11B	P4-FOR-AA12BR	9.7	P4-FOR-AA12BR-20.0-20.5	20.0 - 20.5 ft	-10.3	-10.8	JC30142-8	JC30142	10/20/2016	remaining	N	Y		8.0	J	S5
BB9B	P4-FOR-BB9B	10.8	P4-FOR-BB9B-7.0-7.5	7.0 - 7.5 ft	3.8	3.3	JC23205-8R	JC23205R	06/29/2016	remaining	N	Y		9.7	J	S9, S10
BB9B	P4-FOR-BB9B	10.8	P4-FOR-BB9B-9.0-9.5	9.0 - 9.5 ft	1.8	1.3	JC23205-9R	JC23205R	06/29/2016	remaining	N	Y		5.6	J	S9, S10
BB9B	P4-FOR-BB9B	10.8	P4-FOR-BB9B-10.5-11.0	10.5 - 11.0 ft	0.3	-0.3	JC23205-3R	JC23205R	06/29/2016	remaining	N	Y	FILL (FILL)	29.4	J	S9, S10
BB9B	P4-FOR-BB9B	10.8	P4-FOR-BB9B-11.0-11.5	11.0 - 11.5 ft	-0.3	-0.8	JC23205-4	JC23205	06/29/2016	remaining	N	Y	UNDno (SM)	20.4	J	S9, S10
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-8.5-9.0	8.5 - 9.0 ft	2.0	1.5	JC30237-7	JC30237	10/21/2016	remaining	N	Y		6.2	J	S9, S10
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-9.0-9.5	9.0 - 9.5 ft	1.5	1.0	JC30237-8	JC30237	10/21/2016	remaining	N	Y		3.9	J	S9, S10
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-12.0-12.5	12.0 - 12.5 ft	-1.5	-2.0	JC30237-2	JC30237	10/21/2016	remaining	N	Y		17.5	J	S9
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-14.0-14.5	14.0 - 14.5 ft	-3.5	-4.0	JC30237-3	JC30237	10/21/2016	remaining	N	Y		7.9	J	S9
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-16.0-16.5	16.0 - 16.5 ft	-5.5	-6.0	JC30237-4	JC30237	10/21/2016	remaining	N	Y		7.4	J	S9
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-18.0-18.5	18.0 - 18.5 ft	-7.5	-8.0	JC30237-5	JC30237	10/21/2016	remaining	N	Y		1.8	J	S9
BB9B	P4-FOR-BB9BR	10.5	P4-FOR-BB9BR-20.0-20.5	20.0 - 20.5 ft	-9.5	-10.0	JC30237-6	JC30237	10/21/2016	remaining	N	Y		8.5	J	S9
BB10B	FS1	10.2	FS1-2.0-2.5	2.0 - 2.5 ft	8.2	7.7	JB63511-2	JB63511	04/01/2014	removed	N	Y		1.2	J	S11
BB10B	FS1	10.2	FS1-5.0-5.5	5.0 - 5.5 ft	5.2	4.7	JB63511-3	JB63511	04/01/2014	removed	N	Y		13.7	J	S9, S11
BB10B	FS1	10.2	FS1-5.0-5.5X	5.0 - 5.5 ft	5.2	4.7	JB63511-4R	JB63511R	04/01/2014	removed	FD	Y		17.4	J	S9, S11
BB10B	FS1	10.2	FS1-7.0-7.5	7.0 - 7.5 ft	3.2	2.7	JB63511-5	JB63511	04/01/2014	removed	N	Y		7.8	J	S11
BB10B	FS1	10.2	FS1-9.0-9.5	9.0 - 9.5 ft	1.2	0.7	JB63511-6R	JB63511R	04/01/2014	remaining	N	Y		6.6	J	S11
BB10B	FS1	10.2	FS1-11.0-11.5	11.0 - 11.5 ft	-0.8	-1.3	JB63511-8R	JB63511R	04/01/2014	remaining	N	Y		8.0	J	S11
BB10B	FS1	10.2	FS1-13.0-13.5	13.0 - 13.5 ft	-2.8	-3.3	JB63511-9R	JB63511R	04/01/2014	remaining	N	Y	UNDno (SM)	16.3	J	S11, S12
BB10B	FS1	10.2	FS1-15.0-15.5	15.0 - 15.5 ft	-4.8	-5.3	JB63511-10	JB63511	04/01/2014	remaining	N	Y	UNDno (SM)	10.8	J	S11, S12
BB10B	FS1	10.2	FS1-17.0-17.5	17.0 - 17.5 ft	-6.8	-7.3	JB63511-11	JB63511	04/01/2014	remaining	N	Y	UNDno (SM)	12.2	J	S11, S12
BB10B	FS1	10.2	FS1-20.0-20.5	20.0 - 20.5 ft	-9.8	-10.3	JB63511-13R	JB63511R	04/01/2014	remaining	N	Y		10.5	J	S11
BB10B	FS1	10.2	FS1-22.0-22.5	22.0 - 22.5 ft	-11.8	-12.3	JB63511-14R	JB63511R	04/01/2014	remaining	N	Y		6.8	J	S11
BB10B	FS1	10.2	FS1-25.0-25.5	25.0 - 25.5 ft	-14.8	-15.3	JB63511-15R	JB63511R	04/01/2014	remaining	N	Y		20.0	J	S11
BB10B	FS1	10.2	FS1-27.0-27.5	27.0 - 27.5 ft	-16.8	-17.3	JB63511-16R	JB63511R	04/01/2014	remaining	N	Y		9.8	J	S11
BB10B	FS1	10.2	FS1-29.0-29.5	29.0 - 29.5 ft	-18.8	-19.3	JB63511-17R	JB63511R	04/01/2014	remaining	N	Y		0.61	J	S11
BB10B	FS1	10.2	FS1-31.0-31.5	31.0 - 31.5 ft	-20.8	-21.3	JB63511-18R	JB63511R	04/01/2014	remaining	N	Y		0.64	J	S11
BB10B	FS1	10.2	FS1-33.0-33.5	33.0 - 33.5 ft	-22.8	-23.3	JB63511-20R	JB63511R	04/01/2014	remaining	N	Y		0.28	J	S11
BB10B	FS1	10.2	FS1-35.0-35.5	35.0 - 35.5 ft	-24.8	-25.3	JB63511-21R	JB63511R	04/01/2014	remaining	N	Y		0.46	J	S11
BB10B	FS1	10.2	FS1-37.0-37.5	37.0 - 37.5 ft	-26.8	-27.3	JB63511-22R	JB63511R	04/01/2014	remaining	N	Y		0.17	J	S11
BB10B	FS-BB10B-SW-N	10.2	FS-BB10B-SW-N-3.2-3.7	3.2 - 3.7 ft	7.0	6.5	JC46202-2	JC46202	06/30/2017	remaining	N	Y		11.3	J	S5, S11
BB10B	FSP-BB10B-SW-N	10.2	FSP-BB10B-SW-N-1.2-1.7	1.2 - 1.7 ft	9.0	8.5	JC46202-3	JC46202	06/30/2017	remaining	N	Y		1.1	J	S5, S11, S13
BB10B	P4-FOR-BB10B	10.3	P4-FOR-BB10B-3.0-3.5	3.0 - 3.5 ft	7.3	6.8	JC22461-2	JC22461	06/17/2016	removed	N	Y		6.9	J	S11
BB10B	P4-FOR-BB10B	10.3	P4-FOR-BB10B-3.0-3.5X	3.0 - 3.5 ft	7.3	6.8	JC22461-3	JC22461	06/17/2016	removed	FD	Y		10.4	J	S11
BB10B	P4-FOR-BB10B	10.3	P4-FOR-BB10B-6.0-6.5	6.0 - 6.5 ft	4.3	3.8	JC22461-4R	JC22461R	06/17/2016	remaining	N	Y		4.2	J	S11
BB10B	P4-FOR-BB10B	10.3	P4-FOR-BB10B-6.5-7.0	6.5 - 7.0 ft	3.8	3.3	JC22461-5R	JC22461R	06/17/2016	remaining	N	Y	UNDno (OL)	16.8	J	S11, S12

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)	Result (G18, G19)	Qualifier (G20, G21)	
BB10B	P4-FOR-BB10BR	10.6	P4-FOR-BB10BR-19.0-19.5	19.0 - 19.5 ft	-8.4	-8.9	JC29975-4R	JC29975R	10/19/2016	remaining	N	Y	UNDno (SP)	26.6	J	S11, S12		
BB11B	EF-111A	10.4	EF-111A-0.4-0.9	0.4 - 0.9 ft	10.0	9.5	JB98041-3	JB98041	06/27/2015	remaining	N	Y		3.7		S5		
BB11B	EF-111A	10.4	EF-111A-2.0-2.5	2.0 - 2.5 ft	8.4	7.9	JB98041-4	JB98041	06/27/2015	remaining	N	Y		< 0.22	U	S5, S14		
BB11B	EF-111A	10.4	EF-111A-3.0-3.5	3.0 - 3.5 ft	7.4	6.9	JB98041-5	JB98041	06/27/2015	remaining	N	Y		< 0.24	U	S5, S14		
BB11B	EF-111A	10.4	EF-111A-5.0-5.5	5.0 - 5.5 ft	5.4	4.9	JB98041-6	JB98041	06/27/2015	remaining	N	Y		< 0.25	U	S5, S14		
BB11B	EF-111A	10.4	EF-111A-5.0-5.5X	5.0 - 5.5 ft	5.4	4.9	JB98041-7	JB98041	06/27/2015	remaining	FD	Y		< 0.24	U	S5, S14		
BB11B	EF-111A	10.4	EF-111A-7.0-7.5	7.0 - 7.5 ft	3.4	2.9	JB98041-8	JB98041	06/27/2015	remaining	N	Y	FILL (FILL)	48.6		S5, S14		
BB11B	EF-111A	10.4	EF-111A-8.0-8.5	8.0 - 8.5 ft	2.4	1.9	JB98041-9	JB98041	06/27/2015	remaining	N	Y	UNDno (SM)	54.0		S5, S14		
BB11B	EF-111A	10.4	EF-111A-10.0-10.5	10.0 - 10.5 ft	0.4	-0.1	JB98041-12	JB98041	06/27/2015	remaining	N	Y		17.7		S5		
BB11B	EF-111A	10.4	EF-111A-12.0-12.5	12.0 - 12.5 ft	-1.6	-2.1	JB98041-13	JB98041	06/27/2015	remaining	N	Y		9.3		S5		
BB11B	EF-111A	10.4	EF-111A-13.0-13.5	13.0 - 13.5 ft	-2.6	-3.1	JB98041-14	JB98041	06/27/2015	remaining	N	Y		7.5		S5		
BB11B	EF-111A	10.4	EF-111A-15.0-15.5	15.0 - 15.5 ft	-4.6	-5.1	JB98041-15	JB98041	06/27/2015	remaining	N	Y		10.4		S5		
BB11B	EF-111A	10.4	EF-111A-17.0-17.5	17.0 - 17.5 ft	-6.6	-7.1	JB98041-16	JB98041	06/27/2015	remaining	N	Y		11.8		S5		
BB11B	EF-111A	10.4	EF-111A-18.0-18.5	18.0 - 18.5 ft	-7.6	-8.1	JB98041-17	JB98041	06/27/2015	remaining	N	Y		3.6		S5		
BB11B	EF-111A	10.4	EF-111A-20.0-20.5	20.0 - 20.5 ft	-9.6	-10.1	JB98041-20	JB98041	06/27/2015	remaining	N	Y		2.1		S5		
BB11B	EF-111A	10.4	EF-111A-22.0-22.5	22.0 - 22.5 ft	-11.6	-12.1	JB98041-21	JB98041	06/27/2015	remaining	N	Y		4.0		S5		
BB11B	EF-111A	10.4	EF-111A-23.0-23.5	23.0 - 23.5 ft	-12.6	-13.1	JB98041-22	JB98041	06/27/2015	remaining	N	Y	SM	34.3		S5, S15		
BB11B	EF-111A	10.4	EF-111A-25.0-25.5	25.0 - 25.5 ft	-14.6	-15.1	JB98041-23	JB98041	06/27/2015	remaining	N	Y		2.6		S5		
BB11B	EF-111A	10.4	EF-111A-30.0-30.5	30.0 - 30.5 ft	-19.6	-20.1	JB98041-26	JB98041	06/27/2015	remaining	N	Y		2.0		S5		
BB11B	EF-111A	10.4	EF-111A-32.0-32.5	32.0 - 32.5 ft	-21.6	-22.1	JB98041-27	JB98041	06/27/2015	remaining	N	Y		2.1		S5		
BB11B	EF-111A	10.4	EF-111A-33.0-33.5	33.0 - 33.5 ft	-22.6	-23.1	JB98041-28	JB98041	06/27/2015	remaining	N	Y		< 0.23	U	S5		
BB11B	EF-111A	10.4	EF-111A-35.0-35.5	35.0 - 35.5 ft	-24.6	-25.1	JB98041-29	JB98041	06/27/2015	remaining	N	Y		0.77		S5		
BB11B	EF-111A	10.4	EF-111A-37.0-37.5	37.0 - 37.5 ft	-26.6	-27.1	JB98041-30	JB98041	06/27/2015	remaining	N	Y		< 0.23	U	S5		
BB11B	EF-111A	10.4	EF-111A-39.0-39.5	39.0 - 39.5 ft	-28.6	-29.1	JB98041-31	JB98041	06/27/2015	remaining	N	Y		< 0.23	U	S5		
BB11B	EF-111A	10.4	EF-111A-39.5-40.0	39.5 - 40.0 ft	-29.1	-29.6	JB98041-32	JB98041	06/27/2015	remaining	N	Y		< 0.22	U	S5		
BB11B	FS3	10.1	FS3-1.0-1.5	1.0 - 1.5 ft	9.1	8.6	JB62507-1	JB62507	03/20/2014	remaining	N	Y		1.4		S5		
BB11B	FS3	10.1	FS3-3.0-3.5	3.0 - 3.5 ft	7.1	6.6	JB62507-2	JB62507	03/20/2014	remaining	N	Y		0.52	J	S5, S14		
BB11B	FS3	10.1	FS3-3.0-3.5X	3.0 - 3.5 ft	7.1	6.6	JB62507-3	JB62507	03/20/2014	remaining	FD	Y		0.46	J	S5, S14		
BB11B	FS3	10.1	FS3-5.0-5.5	5.0 - 5.5 ft	5.1	4.6	JB62507-4	JB62507	03/20/2014	remaining	N	Y	FILL (FILL)	54.8		S5, S14		
BB11B	FS3	10.1	FS3-7.0-7.5	7.0 - 7.5 ft	3.1	2.6	JB62507-5	JB62507	03/20/2014	remaining	N	Y	FILL (FILL)	33.2		S5, S14		
BB11B	FS3	10.1	FS3-9.0-9.5	9.0 - 9.5 ft	1.1	0.6	JB62507-6	JB62507	03/20/2014	remaining	N	Y	FILL (FILL)	62.3		S5, S14		
BB11B	FS3	10.1	FS3-11.0-11.5	11.0 - 11.5 ft	-0.9	-1.4	JB62507-8	JB62507	03/20/2014	remaining	N	Y	FILL (FILL)	44.0		S5, S14		
BB11B	FS3	10.1	FS3-13.0-13.5	13.0 - 13.5 ft	-2.9	-3.4	JB62507-9	JB62507	03/20/2014	remaining	N	Y		10.6		S5		
BB11B	FS3	10.1	FS3-15.0-15.5	15.0 - 15.5 ft	-4.9	-5.4	JB62507-10	JB62507	03/20/2014	remaining	N	Y		7.0		S5		
BB11B	FS3	10.1	FS3-20.0-20.5	20.0 - 20.5 ft	-9.9	-10.4	JB62507-12	JB62507	03/20/2014	remaining	N	Y		13.7		S5		
BB11B	FS3	10.1	FS3-22.0-22.5	22.0 - 22.5 ft	-11.9	-12.4	JB62507-13	JB62507	03/20/2014	remaining	N	Y		19.6		S5		
BB11B	FS3	10.1	FS3-24.0-24.5	24.0 - 24.5 ft	-13.9	-14.4	JB62507-14	JB62507	03/20/2014	remaining	N	Y	SM	38.5		S5, S15		
BB11B	FS3	10.1	FS3-26.0-26.5	26.0 - 26.5 ft	-15.9	-16.4	JB62507-15	JB62507	03/20/2014	remaining	N	Y	SM	63.3		S5, S15		
BB11B	FS3	10.1	FS3-28.0-28.5	28.0 - 28.5 ft	-17.9	-18.4	JB62507-16	JB62507	03/20/2014	remaining	N	Y		3.6		S5		
BB11B	FS3	10.1	FS3-30.0-30.5	30.0 - 30.5 ft	-19.9	-20.4	JB62507-18	JB62507	03/20/2014	remaining	N	Y		0.75		S5		
BB11B	FS3	10.1	FS3-32.0-32.5	32.0 - 32.5 ft	-21.9	-22.4	JB62507-19	JB62507	03/20/2014	remaining	N	Y		0.14	J	S5		
BB11B	FS3	10.1	FS3-35.0-35.5	35.0 - 35.5 ft	-24.9	-25.4	JB62507-20	JB62507	03/20/2014	remaining	N	Y		0.37	J	S5		
BB11B	FS3	10.1	FS3-37.0-37.5	37.0 - 37.5 ft	-26.9	-27.4	JB62507-21	JB62507	03/20/2014	remaining	N	Y		< 0.083	U	S5		
BB11B	FS4	10.1	FS4-1.0-1.5	1.0 - 1.5 ft	9.1	8.6	JB62666-1R	JB62666R	03/21/2014	remaining	N	Y	FILL (FILL)	24.0	J	S5		
BB11B	FS4	10.1	FS4-3.0-3.5	3.0 - 3.5 ft	7.1	6.6	JB62666-2	JB62666	03/21/2014	remaining	N	Y		0.51	J	S5, S14		
BB11B	FS4	10.1	FS4-3.0-3.5X	3.0 - 3.5 ft	7.1	6.6	JB62666-3	JB62666	03/21/2014	remaining	FD	Y		0.72	J	S5, S14		
BB11B	FS4	10.1	FS4-5.0-5.5	5.0 - 5.5 ft	5.1	4.6	JB62666-4	JB62666	03/21/2014	remaining	N	Y		0.97	J	S5		
BB11B	FS4	10.1	FS4-7.0-7.5	7.0 - 7.5 ft	3.1	2.6	JB62666-5	JB62666	03/21/2014	remaining	N	Y	FILL (FILL)	31.6	J	S5, S14		

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)	Result (G18, G19)	Qualifier (G20, G21)	
BB11B	FS4	10.1	FS4-9.0-9.5	9.0 - 9.5 ft	1.1	0.6	JB62666-6	JB62666	03/21/2014	remaining	N	Y	FILL (FILL)	81.1	J		S5, S14	
BB11B	FS4	10.1	FS4-11.0-11.5	11.0 - 11.5 ft	-0.9	-1.4	JB62666-8	JB62666	03/21/2014	remaining	N	Y		14.4	J		S5	
BB11B	FS4	10.1	FS4-15.0-15.5	15.0 - 15.5 ft	-4.9	-5.4	JB62666-9R	JB62666R	03/21/2014	remaining	N	Y		6.7	J		S5	
BB11B	FS4	10.1	FS4-20.0-20.5	20.0 - 20.5 ft	-9.9	-10.4	JB62666-11R	JB62666R	03/21/2014	remaining	N	Y		13.2	J		S5	
BB11B	FS4	10.1	FS4-22.0-22.5	22.0 - 22.5 ft	-11.9	-12.4	JB62666-12R	JB62666R	03/21/2014	remaining	N	Y		9.5	J		S5	
BB11B	FS4	10.1	FS4-24.0-24.5	24.0 - 24.5 ft	-13.9	-14.4	JB62666-13R	JB62666R	03/21/2014	remaining	N	Y		14.5	J		S5	
BB11B	FS4	10.1	FS4-26.0-26.5	26.0 - 26.5 ft	-15.9	-16.4	JB62666-14R	JB62666R	03/21/2014	remaining	N	Y	SM	104	J		S5, S15	
BB11B	FS4	10.1	FS4-28.0-28.5	28.0 - 28.5 ft	-17.9	-18.4	JB62666-15R	JB62666R	03/21/2014	remaining	N	Y	SM	49.1	J		S5, S15	
BB11B	FS4	10.1	FS4-30.0-30.5	30.0 - 30.5 ft	-19.9	-20.4	JB62666-17R	JB62666R	03/21/2014	remaining	N	Y		2.0	J		S5	
BB11B	FS4	10.1	FS4-32.0-32.5	32.0 - 32.5 ft	-21.9	-22.4	JB62666-18	JB62666	03/21/2014	remaining	N	Y		0.86	J		S5	
BB11B	FS4	10.1	FS4-35.0-35.5	35.0 - 35.5 ft	-24.9	-25.4	JB62666-19	JB62666	03/21/2014	remaining	N	Y		0.30	J		S5	
BB11B	FS4	10.1	FS4-37.0-37.5	37.0 - 37.5 ft	-26.9	-27.4	JB62666-20	JB62666	03/21/2014	remaining	N	Y		0.14	J		S5	
BB11B	FSTP2-WaterLine1	9.9	FSTP2-4.3-4.8	4.3 - 4.8 ft	5.6	5.1	JB61122-26	JB61122	03/05/2014	remaining	N	Y		0.53	J		S5, S14	
BB11B	FSTP3-WaterLine1	9.8	FSTP3-4.6-5.1	4.6 - 5.1 ft	5.2	4.7	JB61214-1	JB61214	03/06/2014	remaining	N	Y		5.1	J		S5	
BB11B	P4-FOR-BB11B	10.1	P4-FOR-BB11B-7.0-7.5	7.0 - 7.5 ft	3.1	2.6	JC22619-2	JC22619	06/21/2016	remaining	N	Y		19.9			S5	
BB11B	P4-FOR-BB11B	10.1	P4-FOR-BB11B-7.5-8.0	7.5 - 8.0 ft	2.6	2.1	JC22619-3	JC22619	06/21/2016	remaining	N	Y		19.8			S5	
CC9B	P4-FOR-CC9B	10.5	P4-FOR-CC9B-6.0-6.5	6.0 - 6.5 ft	4.5	4.0	JC22461-7	JC22461	06/17/2016	remaining	N	Y		< 0.34	UJ			
CC9B	P4-FOR-CC9B	10.5	P4-FOR-CC9B-6.5-7.0	6.5 - 7.0 ft	4.0	3.5	JC22461-8	JC22461	06/17/2016	remaining	N	Y		0.38	J			
CC9B	P4-FOR-CC9B	10.5	P4-FOR-CC9B-7.0-7.5	7.0 - 7.5 ft	3.5	3.0	JC22461-9R	JC22461R	06/17/2016	remaining	N	Y	UNDno (OL)	0.35	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-10.0-10.5	10.0 - 10.5 ft	0.4	-0.1	JC29975-9	JC29975	10/19/2016	remaining	N	Y	UNDno (SM)	1.5	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-12.0-12.5	12.0 - 12.5 ft	-1.6	-2.1	JC29975-10R	JC29975R	10/19/2016	remaining	N	Y	UNDno (SP)	3.7	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-12.0-12.5X	12.0 - 12.5 ft	-1.6	-2.1	JC29975-11R	JC29975R	10/19/2016	remaining	FD	Y	UNDno (SP)	4.1	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-16.0-16.5	16.0 - 16.5 ft	-5.6	-6.1	JC29975-12R	JC29975R	10/19/2016	remaining	N	Y	UNDno (SP)	7.2	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-18.0-18.5	18.0 - 18.5 ft	-7.6	-8.1	JC29975-13	JC29975	10/19/2016	remaining	N	Y	UNDno (SP)	20.8	J		S16	
CC9B	P4-FOR-CC9BR	10.4	P4-FOR-CC9BR-20.0-20.5	20.0 - 20.5 ft	-9.6	-10.1	JC29975-15R	JC29975R	10/19/2016	remaining	N	Y		1.2	J			
CC9B	PSEG-SB48	10.9	PSEG-SB48B(4.0-4.9)J47449-7	4.0 - 4.9 ft	6.9	6.0	J47449-7	J47449	11/28/2006	removed	N	Y		< 1.3	U		S17	
CC9B	PSEG-SB48	10.9	PSEG-SB48BD(4.0-4.9)J47449-8	4.0 - 4.9 ft	6.9	6.0	J47449-8	J47449	11/28/2006	removed	FD	Y		< 1.3	U		S17	
CC9B	PSEG-SB48	10.9	PSEG-SB48C(7.0-7.5)J47449-9	7.0 - 7.5 ft	3.9	3.4	J47449-9	J47449	11/28/2006	remaining	N	Y		< 1.3	U			
CC9B	PSEG-SB48	10.9	PSEG-SB48D(9.0-9.5)J47449-10	9.0 - 9.5 ft	1.9	1.4	J47449-10	J47449	11/28/2006	remaining	N	Y		< 1.2	U			
CC9B	PSEG-SB48	10.9	PSEG-SB48E(14.0-14.5)	14.0 - 14.5 ft	-3.1	-3.6	J47449-11	J47449	11/28/2006	remaining	N	Y		< 1.2	U			
CC10B	FS-CC10B-SW-N1	10.7	FS-CC10B-SW-N-1.8-2.3	1.8 - 2.3 ft	8.9	8.4	JC46103-6	JC46103	06/29/2017	remaining	N	Y		1.1	J-		S5	
CC10B	FS-CC10B-SW-N2	10.7	FS-CC10B-SW-N-3.7-4.2	3.7 - 4.2 ft	7.0	6.5	JC46103-4R	JC46103R	06/29/2017	remaining	N	Y		0.84			S5	
CC10B	FS-CC10B-SW-N2	10.7	FS-CC10B-SW-N-3.7-4.2X	3.7 - 4.2 ft	7.0	6.5	JC46103-5	JC46103	06/29/2017	remaining	FD	Y		1.1	J-		S5	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-3.0-3.5	3.0 - 3.5 ft	7.7	7.2	JC22855-5	JC22855	06/23/2016	remaining	N	Y		0.47	J		S5, S18	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-5.0-5.5	5.0 - 5.5 ft	5.7	5.2	JC22855-6	JC22855	06/23/2016	remaining	N	Y		1.2	J		S5, S18, S19	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-7.0-7.5	7.0 - 7.5 ft	3.7	3.2	JC22855-7	JC22855	06/23/2016	remaining	N	Y		< 0.33	UJ		S5, S18	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-9.0-9.5	9.0 - 9.5 ft	1.7	1.2	JC22855-8	JC22855	06/23/2016	remaining	N	Y	FILL (FILL)	33.8	J		S5, S18	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-10.5-11.0	10.5 - 11.0 ft	0.2	-0.3	JC22855-3	JC22855	06/23/2016	remaining	N	Y	FILL (FILL)	138	J		S5, S18	
CC10B	P4-FOR-CC10B	10.7	P4-FOR-CC10B-11.0-11.5	11.0 - 11.5 ft	-0.3	-0.8	JC22855-4	JC22855	06/23/2016	remaining	N	Y		4.5	J		S5	
CC11B	EF-110A	11.1	EF110A-0.8-1.3	0.8 - 1.3 ft	10.3	9.8	JB97556-3	JB97556	06/20/2015	remaining	N	Y		0.43	J		S5	
CC11B	EF-110A	11.1	EF110A-2.0-2.5	2.0 - 2.5 ft	9.1	8.6	JB97556-4	JB97556	06/20/2015	remaining	N	Y		< 0.22	U		S5	
CC11B	EF-110A	11.1	EF110A-3.0-3.5	3.0 - 3.5 ft	8.1	7.6	JB97556-5	JB97556	06/20/2015	remaining	N	Y		< 0.23	U		S5	
CC11B	EF-110A	11.1	EF110A-5.0-5.5	5.0 - 5.5 ft	6.1	5.6	JB97556-6	JB97556	06/20/2015	remaining	N	Y		0.33	J		S5	
CC11B	EF-110A	11.1	EF110A-7.0-7.5	7.0 - 7.5 ft	4.1	3.6	JB97556-7	JB97556	06/20/2015	remaining	N	Y		0.33	J		S5	
CC11B	EF-110A	11.1	EF110A-8.0-8.5	8.0 - 8.5 ft	3.1	2.6	JB97556-8	JB97556	06/20/2015	remaining	N	Y	UNDno (SM)	< 0.23	U		S5, S20	
CC11B	EF-110A	11.1	EF110A-10.0-10.5	10.0 - 10.5 ft	1.1	0.6	JB97556-11	JB97556	06/20/2015	remaining	N	Y		0.99			S5	
CC11B	EF-110A	11.1	EF110A-12.0-12.5	12.0 - 12.5 ft	-0.9	-1.4	JB97556-12	JB97556	06/20/2015	remaining	N	Y	UNDno (SM)	20.8			S5, S20	
CC11B	EF-110A	11.1	EF110A-12.0-12.5X	12.0 - 12.5 ft	-0.9	-1.4	JB97556-13	JB97556	06/20/2015	remaining	FD	Y		17.1			S5	

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)	Result (G18, G19)	Qualifier (G20, G21)	
CC11B	EF-110A	11.1	EF110A-14.0-14.5	14.0 - 14.5 ft	-2.9	-3.4	JB97556-14	JB97556	06/20/2015	remaining	N	Y		17.6		S5		
CC11B	EF-110A	11.1	EF110A-16.0-16.5	16.0 - 16.5 ft	-4.9	-5.4	JB97556-15	JB97556	06/20/2015	remaining	N	Y		11.4		S5		
CC11B	EF-110A	11.1	EF110A-18.0-18.5	18.0 - 18.5 ft	-6.9	-7.4	JB97556-16R	JB97556R	06/20/2015	remaining	N	Y		11.2		S5		
CC11B	EF-110A	11.1	EF110A-20.0-20.5	20.0 - 20.5 ft	-8.9	-9.4	JB97556-19R	JB97556R	06/20/2015	remaining	N	Y	SM	34.7		S5, S21		
CC11B	EF-110A	11.1	EF110A-22.0-22.5	22.0 - 22.5 ft	-10.9	-11.4	JB97556-20	JB97556	06/20/2015	remaining	N	Y	SM	77.5 J		S5, S21		
CC11B	EF-110A	11.1	EF110A-24.0-24.5	24.0 - 24.5 ft	-12.9	-13.4	JB97556-21	JB97556	06/20/2015	remaining	N	Y	SM	42.3 J		S5, S21		
CC11B	EF-110A	11.1	EF110A-26.0-26.5	26.0 - 26.5 ft	-14.9	-15.4	JB97556-22	JB97556	06/20/2015	remaining	N	Y	SM	22.3 J		S5, S21		
CC11B	EF-110A	11.1	EF110A-28.0-28.5	28.0 - 28.5 ft	-16.9	-17.4	JB97556-23	JB97556	06/20/2015	remaining	N	Y	SM	29.0 J		S5, S21		
CC11B	EF-110A	11.1	EF110A-30.0-30.5	30.0 - 30.5 ft	-18.9	-19.4	JB97556-28R	JB97556R	06/20/2015	remaining	N	Y		1.6		S5		
CC11B	EF-110A	11.1	EF110A-32.0-32.5	32.0 - 32.5 ft	-20.9	-21.4	JB97556-29R	JB97556R	06/20/2015	remaining	N	Y		0.67		S5		
CC11B	EF-110A	11.1	EF110A-34.0-34.5	34.0 - 34.5 ft	-22.9	-23.4	JB97556-30	JB97556	06/20/2015	remaining	N	Y		0.40 J		S5		
CC11B	EF-110A	11.1	EF110A-36.0-36.5	36.0 - 36.5 ft	-24.9	-25.4	JB97556-31	JB97556	06/20/2015	remaining	N	Y		0.38 J		S5		
CC11B	EF-110A	11.1	EF110A-38.0-38.5	38.0 - 38.5 ft	-26.9	-27.4	JB97556-32	JB97556	06/20/2015	remaining	N	Y		< 0.23 UJ		S5		
CC11B	EF-110A	11.1	EF110A-39.5-40.0	39.5 - 40.0 ft	-28.4	-28.9	JB97556-33	JB97556	06/20/2015	remaining	N	Y		0.38 J		S5		
CC11B	EF-111	10.5	EF-B111-6.0-6.5	6.0 - 6.5 ft	4.5	4.0	JB15988-11	JB15988	09/11/2012	remaining	N	Y	UNDno (ML)	0.72 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-7.5-8.0	7.5 - 8.0 ft	3.0	2.5	JB15988-10	JB15988	09/11/2012	remaining	N	Y	UNDno (ML)	33.9 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-11.0-11.5	11.0 - 11.5 ft	-0.5	-1.0	JB15988-9	JB15988	09/11/2012	remaining	N	Y	UNDno (ML)	46.7 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-13.0-13.5	13.0 - 13.5 ft	-2.5	-3.0	JB15988-8	JB15988	09/11/2012	remaining	N	Y	UNDno (SW)	22.2 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-15.0-15.5	15.0 - 15.5 ft	-4.5	-5.0	JB15988-7	JB15988	09/11/2012	remaining	N	Y	UNDno (SW)	57.6 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-17.0-17.5	17.0 - 17.5 ft	-6.5	-7.0	JB15988-6	JB15988	09/11/2012	remaining	N	Y	UNDno (SW)	41.9 J		S5, S20		
CC11B	EF-111	10.5	EF-B111-20.0-20.5	20.0 - 20.5 ft	-9.5	-10.0	JB15988-5	JB15988	09/11/2012	remaining	N	Y	SW	45.2 J		S5, S22		
CC11B	EF-111	10.5	EF-B111-22.4-22.9	22.4 - 22.9 ft	-11.9	-12.4	JB15988-4	JB15988	09/11/2012	remaining	N	Y	SP	63.2 J		S5, S22		
CC11B	EF-111	10.5	EF-B111-25.0-25.5	25.0 - 25.5 ft	-14.5	-15.0	JB15988-3	JB15988	09/11/2012	remaining	N	Y	SP	59.8 J		S5, S22		
CC11B	P4-FOR-CC11B	10.6	P4-FOR-CC11B-8.5-9.0	8.5 - 9.0 ft	2.1	1.6	JC22944-2R	JC22944R	06/24/2016	remaining	N	Y		0.60 J		S5		
CC11B	P4-FOR-CC11B	10.6	P4-FOR-CC11B-8.5-9.0X	8.5 - 9.0 ft	2.1	1.6	JC22944-3	JC22944	06/24/2016	remaining	FD	Y		0.87 J		S5		
CC11B	P4-FOR-CC11BR	10.6	P4-FOR-CC11BR-4.5-5.0	4.5 - 5.0 ft	6.1	5.6	JC29975-6R	JC29975R	10/19/2016	remaining	N	Y		1.1 J		S5		
CC11B	P4-FOR-CC11BR	10.6	P4-FOR-CC11BR-5.0-5.5	5.0 - 5.5 ft	5.6	5.1	JC29975-7R	JC29975R	10/19/2016	remaining	N	Y	UNDno (ML)	0.55 J		S5, S20		
CC11B	P4-FOR-CC11BR	10.6	P4-FOR-CC11BR-8.0-8.5	8.0 - 8.5 ft	2.6	2.1	JC29975-8R	JC29975R	10/19/2016	remaining	N	Y		1.5 J		S5		
CC11B	P4-FOR-CC11BR	10.6	P4-FOR-CC11BR-10.0-10.5	10.0 - 10.5 ft	0.6	0.1	JC29975-5R	JC29975R	10/19/2016	remaining	N	Y	UNDno (SM)	22.4 J		S5, S20		
DD9B	FS-CC9B-SW-E1	10.4	FS-CC9B-SW-E-1.4-1.9	1.4 - 1.9 ft	9.0	8.5	JC46103-3	JC46103	06/29/2017	remaining	N	Y		2.1 J-				
DD9B	FS-CC9B-SW-E2	10.4	FS-CC9B-SW-E-3.4-3.9	3.4 - 3.9 ft	7.0	6.5	JC46103-2	JC46103	06/29/2017	remaining	N	Y		1.6 J-				
DD9B	P4-FOR-DD9B	10.8	P4-FOR-DD9B-0.8-1.3	0.8 - 1.3 ft	10.0	9.5	JC22461-10R	JC22461R	06/17/2016	removed	N	Y		4.8 J		S23		
DD9B	P4-FOR-DD9B	10.8	P4-FOR-DD9B-2.0-2.5	2.0 - 2.5 ft	8.8	8.3	JC22461-11R	JC22461R	06/17/2016	remaining	N	Y		0.99 J				
DD9B	P4-FOR-DD9B	10.8	P4-FOR-DD9B-4.0-4.5	4.0 - 4.5 ft	6.8	6.3	JC22461-12	JC22461	06/17/2016	remaining	N	Y		0.65 J				
DD9B	P4-FOR-DD9B	10.8	P4-FOR-DD9B-5.0-5.5	5.0 - 5.5 ft	5.8	5.3	JC22461-13	JC22461	06/17/2016	remaining	N	Y		0.63 J				
DD9B	P4-FOR-DD9B	10.8	P4-FOR-DD9B-5.5-6.0	5.5 - 6.0 ft	5.3	4.8	JC22461-14	JC22461	06/17/2016	remaining	N	Y		0.43 J				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-5.5-6.0	5.5 - 6.0 ft	5.2	4.7	JC29902-8	JC29902	10/18/2016	remaining	N	Y		1.1				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-6.0-6.5	6.0 - 6.5 ft	4.7	4.2	JC29902-9	JC29902	10/18/2016	remaining	N	Y		0.58				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-8.0-8.5	8.0 - 8.5 ft	2.7	2.2	JC29902-10	JC29902	10/18/2016	remaining	N	Y		4.4				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-10.0-10.5	10.0 - 10.5 ft	0.7	0.2	JC29902-2	JC29902	10/18/2016	remaining	N	Y		3.0				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-12.0-12.5	12.0 - 12.5 ft	-1.3	-1.8	JC29902-3	JC29902	10/18/2016	remaining	N	Y		4.1				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-14.0-14.5	14.0 - 14.5 ft	-3.3	-3.8	JC29902-4	JC29902	10/18/2016	remaining	N	Y		< 0.35 U				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-16.0-16.5	16.0 - 16.5 ft	-5.3	-5.8	JC29902-5	JC29902	10/18/2016	remaining	N	Y		0.97				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-18.0-18.5	18.0 - 18.5 ft	-7.3	-7.8	JC29902-6	JC29902	10/18/2016	remaining	N	Y		< 0.32 U				
DD9B	P4-FOR-DD9BR	10.7	P4-FOR-DD9BR-20.0-20.5	20.0 - 20.5 ft	-9.3	-9.8	JC29902-7	JC29902	10/18/2016	remaining	N	Y		0.56				
DD10B	FS23	11.3	FS23-2.0-2.5	2.0 - 2.5 ft	9.3	8.8	JB98947-2	JB98947	07/11/2015	remaining	N	Y		0.41 J				
DD10B	FS23	11.3	FS23-2.0-2.5X	2.0 - 2.5 ft	9.3	8.8	JB98947-3	JB98947	07/11/2015	remaining	FD	Y		< 0.24 U				
DD10B	FS23	11.3	FS23-3.0-3.5	3.0 - 3.5 ft	8.3	7.8	JB98947-4	JB98947	07/11/2015	remaining	N	Y		< 0.25 U				

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

													Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Result (G18, G19)	Qualifier (G20, G21)	Specific Notes (G22)
DD10B	FS23	11.3	FS23-5.0-5.5	5.0 - 5.5 ft	6.3	5.8	JB98947-5	JB98947	07/11/2015	remaining	N	Y		0.47	J	
DD10B	FS23	11.3	FS23-7.0-7.5	7.0 - 7.5 ft	4.3	3.8	JB98947-6	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	FS23	11.3	FS23-9.0-9.5	9.0 - 9.5 ft	2.3	1.8	JB98947-7	JB98947	07/11/2015	remaining	N	Y		< 0.22	U	
DD10B	FS23	11.3	FS23-10.0-10.5	10.0 - 10.5 ft	1.3	0.8	JB98947-10	JB98947	07/11/2015	remaining	N	Y		0.49	J	
DD10B	FS23	11.3	FS23-12.0-12.5	12.0 - 12.5 ft	-0.7	-1.2	JB98947-11	JB98947	07/11/2015	remaining	N	Y		0.28	J	
DD10B	FS23	11.3	FS23-15.0-15.5	15.0 - 15.5 ft	-3.7	-4.2	JB98947-12	JB98947	07/11/2015	remaining	N	Y		0.56		
DD10B	FS23	11.3	FS23-17.0-17.5	17.0 - 17.5 ft	-5.7	-6.2	JB98947-13	JB98947	07/11/2015	remaining	N	Y		< 0.22	U	
DD10B	FS23	11.3	FS23-18.0-18.5	18.0 - 18.5 ft	-6.7	-7.2	JB98947-14	JB98947	07/11/2015	remaining	N	Y		< 0.22	U	
DD10B	FS23	11.3	FS23-20.0-20.5	20.0 - 20.5 ft	-8.7	-9.2	JB98947-17	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	FS23	11.3	FS23-22.0-22.5	22.0 - 22.5 ft	-10.7	-11.2	JB98947-18	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	FS23	11.3	FS23-24.0-24.5	24.0 - 24.5 ft	-12.7	-13.2	JB98947-19	JB98947	07/11/2015	remaining	N	Y		< 0.24	U	
DD10B	FS23	11.3	FS23-26.0-26.5	26.0 - 26.5 ft	-14.7	-15.2	JB98947-20	JB98947	07/11/2015	remaining	N	Y		< 0.27	U	
DD10B	FS23	11.3	FS23-28.0-28.5	28.0 - 28.5 ft	-16.7	-17.2	JB98947-21	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	FS23	11.3	FS23-30.0-30.5	30.0 - 30.5 ft	-18.7	-19.2	JB98947-24	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	FS23	11.3	FS23-32.0-32.5	32.0 - 32.5 ft	-20.7	-21.2	JB98947-25	JB98947	07/11/2015	remaining	N	Y		< 0.24	U	
DD10B	FS23	11.3	FS23-34.0-34.5	34.0 - 34.5 ft	-22.7	-23.2	JB98947-26	JB98947	07/11/2015	remaining	N	Y		< 0.25	U	
DD10B	FS23	11.3	FS23-36.0-36.5	36.0 - 36.5 ft	-24.7	-25.2	JB98947-29	JB98947	07/11/2015	remaining	N	Y		< 0.25	U	
DD10B	FS23	11.3	FS23-38.0-38.5	38.0 - 38.5 ft	-26.7	-27.2	JB98947-30	JB98947	07/11/2015	remaining	N	Y		< 0.22	U	
DD10B	FS23	11.3	FS23-39.5-40.0	39.5 - 40.0 ft	-28.2	-28.7	JB98947-31	JB98947	07/11/2015	remaining	N	Y		< 0.23	U	
DD10B	P4-FOR-DD10B	11.0	P4-FOR-DD10B-2.0-2.5	2.0 - 2.5 ft	9.0	8.5	JC22558-3	JC22558	06/20/2016	remaining	N	Y		0.48	J	
DD10B	P4-FOR-DD10B	11.0	P4-FOR-DD10B-2.5-3.0	2.5 - 3.0 ft	8.5	8.0	JC22558-4	JC22558	06/20/2016	remaining	N	Y		0.74	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-1.0-1.5	1.0 - 1.5 ft	10.0	9.5	JC27321-15R	JC27321R	09/09/2016	remaining	N	Y		1.4	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-3.0-3.5	3.0 - 3.5 ft	8.0	7.5	JC27321-24	JC27321	09/09/2016	remaining	N	Y		0.92	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-5.0-5.5	5.0 - 5.5 ft	6.0	5.5	JC27321-25	JC27321	09/09/2016	remaining	N	Y		1.2	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-7.0-7.5	7.0 - 7.5 ft	4.0	3.5	JC27321-26	JC27321	09/09/2016	remaining	N	Y		0.38	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-9.0-9.5	9.0 - 9.5 ft	2.0	1.5	JC27321-27	JC27321	09/09/2016	remaining	N	Y		0.64	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-9.5-10.0	9.5 - 10.0 ft	1.5	1.0	JC27321-28	JC27321	09/09/2016	remaining	N	Y		0.63	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-10.0-10.5	10.0 - 10.5 ft	1.0	0.5	JC27321-16	JC27321	09/09/2016	remaining	N	Y		< 0.36	U	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-11.0-11.5	11.0 - 11.5 ft	0.0	-0.5	JC27321-17R	JC27321R	09/09/2016	remaining	N	Y		1.1	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-11.0-11.5X	11.0 - 11.5 ft	0.0	-0.5	JC27321-18	JC27321	09/09/2016	remaining	FD	Y		0.70		
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-13.0-13.5	13.0 - 13.5 ft	-2.0	-2.5	JC27321-19R	JC27321R	09/09/2016	remaining	N	Y		13.3	J	
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-15.0-15.5	15.0 - 15.5 ft	-4.0	-4.5	JC27321-20	JC27321	09/09/2016	remaining	N	Y		13.6		
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-17.0-17.5	17.0 - 17.5 ft	-6.0	-6.5	JC27321-21	JC27321	09/09/2016	remaining	N	Y		6.4		
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-19.0-19.5	19.0 - 19.5 ft	-8.0	-8.5	JC27321-22	JC27321	09/09/2016	remaining	N	Y		13.3		
DD11B	NFS-PDI-DD11B	11.0	NFS-PDI-DD11B-20.0-20.5	20.0 - 20.5 ft	-9.0	-9.5	JC27321-23	JC27321	09/09/2016	remaining	N	Y		14.3		
EE8B	P4-FOR-EE8B	11.9	P4-FOR-EE8B-1.0-1.5	1.0 - 1.5 ft	10.9	10.4	JC22461-18T	JC22461T	06/17/2016	remaining	N	Y		13.9	J	
EE8B	P4-FOR-EE8B	11.9	P4-FOR-EE8B-3.0-3.5	3.0 - 3.5 ft	8.9	8.4	JC22461-15	JC22461	06/17/2016	remaining	N	Y		0.51	J	
EE8B	P4-FOR-EE8B	11.9	P4-FOR-EE8B-4.5-5.0	4.5 - 5.0 ft	7.4	6.9	JC22461-16	JC22461	06/17/2016	remaining	N	Y		0.62	J	
EE8B	P4-FOR-EE8B	11.9	P4-FOR-EE8B-5.0-5.5	5.0 - 5.5 ft	6.9	6.4	JC22461-17T	JC22461T	06/17/2016	remaining	N	Y		2.2	J	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-6.0-6.5	6.0 - 6.5 ft	5.9	5.4	JC29847-7	JC29847	10/17/2016	remaining	N	Y		0.46	J	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-8.0-8.5	8.0 - 8.5 ft	3.9	3.4	JC29847-8	JC29847	10/17/2016	remaining	N	Y		0.65		
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-10.0-10.5	10.0 - 12.0 ft	1.9	-0.1	JC29847-2	JC29847	10/17/2016	remaining	N	Y		< 0.35	U	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-12.0-12.5	12.0 - 12.5 ft	-0.1	-0.6	JC29847-3	JC29847	10/17/2016	remaining	N	Y		0.45	J	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-14.0-14.5	14.0 - 14.5 ft	-2.1	-2.6	JC29847-4	JC29847	10/17/2016	remaining	N	Y		< 0.36	U	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-16.0-16.5	16.0 - 16.5 ft	-4.1	-4.6	JC29847-5	JC29847	10/17/2016	remaining	N	Y		< 0.34	U	
EE8B	P4-FOR-EE8BR	11.9	P4-FOR-EE8BR-18.0-18.5	18.0 - 18.5 ft	-6.1	-6.6	JC29847-6	JC29847	10/17/2016	remaining	N	Y		< 0.34	U	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-1.0-1.5	1.0 - 1.5 ft	10.0	9.5	JC22762-7R	JC22762R	06/22/2016	remaining	N	Y		1.1	J	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-3.0-3.5	3.0 - 3.5 ft	8.0	7.5	JC22762-11R	JC22762R	06/22/2016	remaining	N	Y		2.1	J	

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		Specific Notes (G22)
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-5.0-5.5	5.0 - 5.5 ft	6.0	5.5	JC22762-12R	JC22762R	06/22/2016	remaining	N	Y		0.38	J	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-7.0-7.5	7.0 - 7.5 ft	4.0	3.5	JC22762-13	JC22762	06/22/2016	remaining	N	Y		< 0.33	UJ	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-9.0-9.5	9.0 - 9.5 ft	2.0	1.5	JC22762-14	JC22762	06/22/2016	remaining	N	Y		< 0.35	UJ	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-10.0-10.5	10.0 - 10.5 ft	1.0	0.5	JC22762-8R	JC22762R	06/22/2016	remaining	N	Y		0.34	J	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-10.5-11.0	10.5 - 11.0 ft	0.5	0.0	JC22762-9R	JC22762R	06/22/2016	remaining	N	Y		0.56	J	
EE9B	P4-FOR-EE9B	11.0	P4-FOR-EE9B-10.5-11.0X	10.5 - 11.0 ft	0.5	0.0	JC22762-10R	JC22762R	06/22/2016	remaining	FD	Y		0.73	J	
EE10B	P4-FOR-EE10B	12.0	P4-FOR-EE10B-0.6-1.1	0.6 - 1.1 ft	11.4	10.9	JC22944-4R	JC22944R	06/24/2016	remaining	N	Y		1.3	J	
EE10B	P4-FOR-EE10B	12.0	P4-FOR-EE10B-2.0-2.5	2.0 - 2.5 ft	10.0	9.5	JC22944-5	JC22944	06/24/2016	remaining	N	Y		1.2	J	
EE10B	P4-FOR-EE10B	12.0	P4-FOR-EE10B-4.0-4.5	4.0 - 4.5 ft	8.0	7.5	JC22944-6	JC22944	06/24/2016	remaining	N	Y		< 0.32	UJ	
EE10B	P4-FOR-EE10B	12.0	P4-FOR-EE10B-6.0-6.5	6.0 - 6.5 ft	6.0	5.5	JC22944-7	JC22944	06/24/2016	remaining	N	Y		0.48	J	
EE10B	P4-FOR-EE10B	12.0	P4-FOR-EE10B-6.5-7.0	6.5 - 7.0 ft	5.5	5.0	JC22944-8	JC22944	06/24/2016	remaining	N	Y		0.47	J	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-8.0-8.5	8.0 - 8.5 ft	4.1	3.6	JC29902-17	JC29902	10/18/2016	remaining	N	Y		< 0.32	UJ	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-10.0-10.5	10.0 - 10.5 ft	2.1	1.6	JC29902-11	JC29902	10/18/2016	remaining	N	Y		< 0.34	U	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-12.0-12.5	12.0 - 12.5 ft	0.1	-0.4	JC29902-12	JC29902	10/18/2016	remaining	N	Y		< 0.42	U	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-14.0-14.5	14.0 - 14.5 ft	-1.9	-2.4	JC29902-13	JC29902	10/18/2016	remaining	N	Y		< 0.34	U	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-16.0-16.5	16.0 - 16.5 ft	-3.9	-4.4	JC29902-14	JC29902	10/18/2016	remaining	N	Y		< 0.33	U	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-18.0-18.5	18.0 - 18.5 ft	-5.9	-6.4	JC29902-15	JC29902	10/18/2016	remaining	N	Y		< 0.34	U	
EE10B	P4-FOR-EE10BR	12.1	P4-FOR-EE10BR-20.0-20.5	20.0 - 20.5 ft	-7.9	-8.4	JC29902-16	JC29902	10/18/2016	remaining	N	Y		< 0.34	U	
FF8B	P4-FOR-FF8B	12.4	P4-FOR-FF8B-1.0-1.5	1.0 - 1.5 ft	11.4	10.9	JC22619-4	JC22619	06/21/2016	remaining	N	Y		0.81		
FF8B	P4-FOR-FF8B	12.4	P4-FOR-FF8B-3.0-3.5	3.0 - 3.5 ft	9.4	8.9	JC22619-5	JC22619	06/21/2016	remaining	N	Y		0.49		
FF8B	P4-FOR-FF8B	12.4	P4-FOR-FF8B-3.0-3.5X	3.0 - 3.5 ft	9.4	8.9	JC22619-6	JC22619	06/21/2016	remaining	FD	Y		0.65		
FF8B	P4-FOR-FF8B	12.4	P4-FOR-FF8B-4.0-4.5	4.0 - 4.5 ft	8.4	7.9	JC22619-7	JC22619	06/21/2016	remaining	N	Y		0.82		
FF8B	P4-FOR-FF8B	12.4	P4-FOR-FF8B-4.5-5.0	4.5 - 5.0 ft	7.9	7.4	JC22619-8	JC22619	06/21/2016	remaining	N	Y		1.4		
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-6.0-6.5	6.0 - 6.5 ft	6.3	5.8	JC29847-16	JC29847	10/17/2016	remaining	N	Y		< 0.32	U	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-8.0-8.5	8.0 - 8.5 ft	4.3	3.8	JC29847-17	JC29847	10/17/2016	remaining	N	Y		< 0.33	U	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-10.0-10.5	10.0 - 10.5 ft	2.3	1.8	JC29847-9	JC29847	10/17/2016	remaining	N	Y		1.6		
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-12.0-12.5	12.0 - 12.5 ft	0.3	-0.2	JC29847-10	JC29847	10/17/2016	remaining	N	Y		0.38	J	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-12.0-12.5X	12.0 - 12.5 ft	0.3	-0.2	JC29847-11	JC29847	10/17/2016	remaining	FD	Y		0.43	J	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-14.0-14.5	14.0 - 14.5 ft	-1.7	-2.2	JC29847-12	JC29847	10/17/2016	remaining	N	Y		< 0.34	U	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-16.0-16.5	16.0 - 16.5 ft	-3.7	-4.2	JC29847-13	JC29847	10/17/2016	remaining	N	Y		< 0.34	U	
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-18.0-18.5	18.0 - 18.5 ft	-5.7	-6.2	JC29847-14	JC29847	10/17/2016	remaining	N	Y		0.47		
FF8B	P4-FOR-FF8BR	12.3	P4-FOR-FF8BR-20.0-20.5	20.0 - 20.5 ft	-7.7	-8.2	JC29847-15	JC29847	10/17/2016	remaining	N	Y		0.37	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-1.0-1.5	1.0 - 1.5 ft	11.2	10.7	JC22855-9	JC22855	06/23/2016	remaining	N	Y		1.6	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-3.0-3.5	3.0 - 3.5 ft	9.2	8.7	JC22855-12	JC22855	06/23/2016	remaining	N	Y		1.3	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-3.0-3.5X	3.0 - 3.5 ft	9.2	8.7	JC22855-13R	JC22855R	06/23/2016	remaining	FD	Y		0.52	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-5.0-5.5	5.0 - 5.5 ft	7.2	6.7	JC22855-14	JC22855	06/23/2016	remaining	N	Y		1.1	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-7.0-7.5	7.0 - 7.5 ft	5.2	4.7	JC22855-15	JC22855	06/23/2016	remaining	N	Y		0.77	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-9.0-9.5	9.0 - 9.5 ft	3.2	2.7	JC22855-16R	JC22855R	06/23/2016	remaining	N	Y		0.72	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-11.0-11.5	11.0 - 11.5 ft	1.2	0.7	JC22855-10	JC22855	06/23/2016	remaining	N	Y		4.3	J	
FF9B	P4-FOR-FF9B	12.2	P4-FOR-FF9B-11.5-12.0	11.5 - 12.0 ft	0.7	0.2	JC22855-11	JC22855	06/23/2016	remaining	N	Y		< 0.34	UJ	
FF10B	P4-FOR-FF10B	12.3	P4-FOR-FF10B-2.0-2.5	2.0 - 2.5 ft	10.3	9.8	JC22619-10	JC22619	06/21/2016	remaining	N	Y		0.47	J	
FF10B	P4-FOR-FF10B	12.3	P4-FOR-FF10B-2.5-3.0	2.5 - 3.0 ft	9.8	9.3	JC22619-11	JC22619	06/21/2016	remaining	N	Y		0.40	J	
FF10B	P4-FOR-FF10B	12.3	P4-FOR-FF10B-10.0-10.5	10.0 - 10.5 ft	2.3	1.8	JC22619-9	JC22619	06/21/2016	remaining	N	Y		4.4		
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-5.0-5.5	5.0 - 5.5 ft	7.1	6.6	JC29902-24	JC29902	10/18/2016	remaining	N	Y		0.76	J	
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-5.5-6.0	5.5 - 6.0 ft	6.6	6.1	JC29902-25	JC29902	10/18/2016	remaining	N	Y		2.1	J	
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-12.0-12.5	12.0 - 12.5 ft	0.1	-0.4	JC29902-18	JC29902	10/18/2016	remaining	N	Y		11.5	J	
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-14.0-14.5	14.0 - 14.5 ft	-1.9	-2.4	JC29902-19	JC29902	10/18/2016	remaining	N	Y		0.42	J	
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-16.0-16.5	16.0 - 16.5 ft	-3.9	-4.4	JC29902-20	JC29902	10/18/2016	remaining	N	Y		< 0.34	UJ	

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)			
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-16.0-16.5X	16.0 - 16.5 ft	-3.9	-4.4	JC29902-21	JC29902	10/18/2016	remaining	FD	Y		< 0.34	UJ			
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-18.0-18.5	18.0 - 18.5 ft	-5.9	-6.4	JC29902-22	JC29902	10/18/2016	remaining	N	Y		< 0.36	UJ			
FF10B	P4-FOR-FF10BR	12.1	P4-FOR-FF10BR-20.0-20.5	20.0 - 20.5 ft	-7.9	-8.4	JC29902-23	JC29902	10/18/2016	remaining	N	Y		< 0.35	UJ			
GG8B	P4-FOR-GG8B	12.9	P4-FOR-GG8B-0.5-1.0	0.5 - 1.0 ft	12.4	11.9	JC22944-9	JC22944	06/24/2016	remaining	N	Y		1.6	J	S24		
GG8B	P4-FOR-GG8B	12.9	P4-FOR-GG8B-2.0-2.5	2.0 - 2.5 ft	10.9	10.4	JC22944-10	JC22944	06/24/2016	remaining	N	Y		1.9	J	S24		
GG8B	P4-FOR-GG8B	12.9	P4-FOR-GG8B-2.5-3.0	2.5 - 3.0 ft	10.4	9.9	JC22944-11	JC22944	06/24/2016	remaining	N	Y		1.5	J	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-4.0-4.5	4.0 - 4.5 ft	8.9	8.4	JC29902-32	JC29902	10/18/2016	remaining	N	Y		< 0.30	U	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-6.0-6.5	6.0 - 6.5 ft	6.9	6.4	JC29902-33	JC29902	10/18/2016	remaining	N	Y		< 0.32	U	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-8.0-8.5	8.0 - 8.5 ft	4.9	4.4	JC29902-34	JC29902	10/18/2016	remaining	N	Y		< 0.36	U	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-8.0-8.5X	8.0 - 8.5 ft	4.9	4.4	JC29902-35	JC29902	10/18/2016	remaining	FD	Y		< 0.36	U	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-10.0-10.5	10.0 - 10.5 ft	2.9	2.4	JC29902-26	JC29902	10/18/2016	remaining	N	Y		< 0.36	UJ	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-12.0-12.5	12.0 - 12.5 ft	0.9	0.4	JC29902-27	JC29902	10/18/2016	remaining	N	Y		< 0.35	UJ	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-14.0-14.5	14.0 - 14.5 ft	-1.1	-1.6	JC29902-28	JC29902	10/18/2016	remaining	N	Y		< 0.35	UJ	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-16.0-16.5	16.0 - 16.5 ft	-3.1	-3.6	JC29902-29	JC29902	10/18/2016	remaining	N	Y		5.4	J	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-18.0-18.5	18.0 - 18.5 ft	-5.1	-5.6	JC29902-30	JC29902	10/18/2016	remaining	N	Y		< 0.37	UJ	S24		
GG8B	P4-FOR-GG8BR	12.9	P4-FOR-GG8BR-20.0-20.5	20.0 - 20.5 ft	-7.1	-7.6	JC29902-31	JC29902	10/18/2016	remaining	N	Y		< 0.51	UJ	S24		
GG9B	P4-FOR-GG9B	13.1	P4-FOR-GG9B-1.0-1.5	1.0 - 1.5 ft	12.1	11.6	JC22944-12	JC22944	06/24/2016	remaining	N	Y		< 0.32	UJ	S25		
GG9B	P4-FOR-GG9B	13.1	P4-FOR-GG9B-2.0-2.5	2.0 - 2.5 ft	11.1	10.6	JC22944-13	JC22944	06/24/2016	remaining	N	Y		< 0.33	UJ	S25		
GG9B	P4-FOR-GG9B	13.1	P4-FOR-GG9B-4.0-4.5	4.0 - 4.5 ft	9.1	8.6	JC22944-14	JC22944	06/24/2016	remaining	N	Y		< 0.31	UJ	S25		
GG9B	P4-FOR-GG9B	13.1	P4-FOR-GG9B-4.5-5.0	4.5 - 5.0 ft	8.6	8.1	JC22944-15R	JC22944R	06/24/2016	remaining	N	Y		1.1	J	S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-6.0-6.5	6.0 - 6.5 ft	7.3	6.8	JC29902-42	JC29902	10/18/2016	remaining	N	Y		7.0		S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-8.0-8.5	8.0 - 8.5 ft	5.3	4.8	JC29902-43	JC29902	10/18/2016	remaining	N	Y		< 0.34	U	S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-10.0-10.5	10.0 - 10.5 ft	3.3	2.8	JC29902-36	JC29902	10/18/2016	remaining	N	Y		< 0.35	U	S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-12.0-12.5	12.0 - 12.5 ft	1.3	0.8	JC29902-37	JC29902	10/18/2016	remaining	N	Y		< 0.35	U	S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-14.0-14.5	14.0 - 14.5 ft	-0.7	-1.2	JC29902-38	JC29902	10/18/2016	remaining	N	Y		1.9		S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-16.0-16.5	16.0 - 16.5 ft	-2.7	-3.2	JC29902-39	JC29902	10/18/2016	remaining	N	Y		1.5		S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-18.0-18.5	18.0 - 18.5 ft	-4.7	-5.2	JC29902-40	JC29902	10/18/2016	remaining	N	Y		< 0.35	U	S25		
GG9B	P4-FOR-GG9BR	13.3	P4-FOR-GG9BR-20.0-20.5	20.0 - 20.5 ft	-6.7	-7.2	JC29902-41	JC29902	10/18/2016	remaining	N	Y		< 0.36	U	S25		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-1.1-1.6	1.1 - 1.6 ft	12.1	11.6	JC19176-16R	JC19176R	4/27/2016	remaining	N	Y		0.43	RA	S26		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-3.0-3.5	3.0 - 3.5 ft	10.2	9.7	JC19176-23R	JC19176R	4/27/2016	remaining	N	Y		1.4	RA	S26		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-5.0-5.5	5.0 - 5.5 ft	8.2	7.7	JC19176-24R	JC19176R	4/27/2016	remaining	N	Y		4.1	RA	S26		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-7.0-7.5	7.0 - 7.5 ft	6.2	5.7	JC19176-25	JC19176	4/27/2016	remaining	N	Y		0.57	RA	S26		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-7.5-8.0	7.5 - 8.0 ft	5.7	5.2	JC19176-26	JC19176	4/27/2016	remaining	N	Y		0.64	RA	S26		
HH7B	P4-HSN-HH7B	13.2	P4-HSN-HH7B-8.0-8.5	8.0 - 8.5 ft	5.2	4.7	JC19176-27R	JC19176R	4/27/2016	remaining	N	Y		0.78	RA	S26		
HH8B	EF-07	13.3	EF-B07-0.6	0.6 - 1.1 ft	12.7	12.2	460-25301-11	460253011	04/13/2011	remaining	N	Y		< 0.52	U			
HH8B	EF-07	13.3	EF-B07-2.0	2.0 - 2.5 ft	11.3	10.8	460-25301-12	460253011	04/13/2011	remaining	N	Y		< 0.64	U	S27		
HH8B	EF-07	13.3	EF-B07-4.0	4.0 - 4.5 ft	9.3	8.8	460-25301-14	460253011	04/13/2011	remaining	N	Y		< 0.55	U			
HH8B	EF-07	13.3	EF-B07-6.0	6.0 - 6.5 ft	7.3	6.8	460-25350-1	460253501	04/14/2011	remaining	N	Y		< 0.58	U			
HH8B	P4-FOR-HH8B	13.4	P4-FOR-HH8B-8.0-8.5	8.0 - 8.5 ft	5.4	4.9	JC23028-3	JC23028	06/27/2016	remaining	N	Y		0.50	J	S27		
HH8B	P4-FOR-HH8B	13.4	P4-FOR-HH8B-9.5-10.0	9.5 - 10.0 ft	3.9	3.4	JC23028-4R	JC23028R	06/27/2016	remaining	N	Y		0.53	J	S27		
HH8B	P4-FOR-HH8B	13.4	P4-FOR-HH8B-10.0-10.5	10.0 - 10.5 ft	3.4	2.9	JC23028-2	JC23028	06/27/2016	remaining	N	Y		0.55	J	S27		
HH8B	P4-FOR-HH8BR	13.3	P4-FOR-HH8BR-12.0-12.5	12.0 - 12.5 ft	1.3	0.8	JC29847-18	JC29847	10/17/2016	remaining	N	Y		0.39	J	S27		
HH8B	P4-FOR-HH8BR	13.3	P4-FOR-HH8BR-14.0-14.5	14.0 - 14.5 ft	-0.7	-1.2	JC29847-19	JC29847	10/17/2016	remaining	N	Y		2.6		S27		
HH8B	P4-FOR-HH8BR	13.3	P4-FOR-HH8BR-16.0-16.5	16.0 - 16.5 ft	-2.7	-3.2	JC29847-20	JC29847	10/17/2016	remaining	N	Y		< 0.36	U	S27		
HH8B	P4-FOR-HH8BR	13.3	P4-FOR-HH8BR-18.0-18.5	18.0 - 18.5 ft	-4.7	-5.2	JC29847-21	JC29847	10/17/2016	remaining	N	Y		0.64		S27		
HH8B	P4-FOR-HH8BR	13.3	P4-FOR-HH8BR-20.0-20.5	20.0 - 20.5 ft	-6.7	-7.2	JC29847-22	JC29847	10/17/2016	remaining	N	Y		0.38	J	S27		
HH9B	EF-109	13.5	EF-B109-1.0-1.5	1.0 - 1.5 ft	12.5	12.0	JB15988-14	JB15988	09/11/2012	remaining	N	Y		0.73	J			
HH9B	P4-FOR-HH9B	14.1	P4-FOR-HH9B-0.5-1.0	0.5 - 1.0 ft	13.6	13.1	JC23104-2	JC23104	06/28/2016	remaining	N	Y		1.5				

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)	Result (G18, G19)	Qualifier (G20, G21)	
HH9B	P4-FOR-HH9B	14.1	P4-FOR-HH9B-2.5-3.0	2.5 - 3.0 ft	11.6	11.1	JC23104-3	JC23104	06/28/2016	remaining	N	Y		0.50				
HH9B	P4-FOR-HH9B	14.1	P4-FOR-HH9B-4.5-5.0	4.5 - 5.0 ft	9.6	9.1	JC23104-4	JC23104	06/28/2016	remaining	N	Y		0.46	J			
HH9B	P4-FOR-HH9B	14.1	P4-FOR-HH9B-5.0-5.5	5.0 - 5.5 ft	9.1	8.6	JC23104-5	JC23104	06/28/2016	remaining	N	Y		0.37	J			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-7.0-7.5	7.0 - 7.5 ft	7.1	6.6	JC29847-29	JC29847	10/17/2016	remaining	N	Y		< 0.35	U			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-9.0-9.5	9.0 - 9.5 ft	5.1	4.6	JC29847-30	JC29847	10/17/2016	remaining	N	Y		0.50				
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-11.0-11.5	11.0 - 11.5 ft	3.1	2.6	JC29847-23	JC29847	10/17/2016	remaining	N	Y		< 0.35	U			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-13.0-13.5	13.0 - 13.5 ft	1.1	0.6	JC29847-24	JC29847	10/17/2016	remaining	N	Y		0.42	J			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-15.0-15.5	15.0 - 15.5 ft	-0.9	-1.4	JC29847-25	JC29847	10/17/2016	remaining	N	Y		< 0.36	U			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-17.0-17.5	17.0 - 17.5 ft	-2.9	-3.4	JC29847-26	JC29847	10/17/2016	remaining	N	Y		0.43	J			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-19.0-19.5	19.0 - 19.5 ft	-4.9	-5.4	JC29847-27	JC29847	10/17/2016	remaining	N	Y		< 0.36	U			
HH9B	P4-FOR-HH9BR	14.1	P4-FOR-HH9BR-20.0-20.5	20.0 - 20.5 ft	-5.9	-6.4	JC29847-28	JC29847	10/17/2016	remaining	N	Y		< 0.37	U			
V11B	FSP-V11B-PB	10.6	FSP-V11B-PB-11.6-12.1	11.6 - 12.1 ft	-1.0	-1.5	JC45774-3	JC45774	06/23/2017	remaining	N	Y		1.4	RA			
V12B	FSP-V12B-PB	14.3	FSP-V12B-PB-15.3-15.8	15.3 - 15.8 ft	-1.0	-1.5	JC45774-2	JC45774	06/23/2017	remaining	N	Y	MM (PT)	1.7	RA		S28, S29	
V12B	NFS-PDI-V12B	14.3	NFS-PDI-V12B-15.0-15.5	15.0 - 15.5 ft	-0.7	-1.2	JC26753-40T	JC26753T	08/30/2016	removed	N	Y	FILL (FILL)	26.6	J		S28, S29	
V12B	NFS-PDI-V12B	14.3	NFS-PDI-V12B-15.5-16.0	15.5 - 16.0 ft	-1.2	-1.7	JC26753-41	JC26753	08/30/2016	remaining	N	Y		13.4	J		S29	
W11B	FS-W11B-SW-E1	10.6	FS-W11B-SW-E-6.6-7.1	6.6 - 7.1 ft	4.0	3.5	JC46447-7R	JC46447R	07/06/2017	remaining	N	Y		0.30	RA			
W11B	FS-W11B-SW-E2	10.6	FS-W11B-SW-E-8.6-9.1	8.6 - 9.1 ft	2.0	1.5	JC46447-6R	JC46447R	07/06/2017	remaining	N	Y		< 0.16	RA			
W11B	P4-FOR-W11B	10.6	P4-FOR-W11B-10.0-10.5	10.0 - 10.5 ft	0.6	0.1	JC22346-4	JC22346	06/16/2016	remaining	N	Y		0.85	J			
W11B	P4-FOR-W11B	10.6	P4-FOR-W11B-10.0-10.5X	10.0 - 10.5 ft	0.6	0.1	JC22346-5	JC22346	06/16/2016	remaining	FD	Y		< 0.35	UJ			
W11B	P4-FOR-W11B	10.6	P4-FOR-W11B-10.5-11.0	10.5 - 11.0 ft	0.1	-0.4	JC22346-6	JC22346	06/16/2016	remaining	N	Y		0.61	J			
W11B	P4-FOR-W11B	10.6	P4-FOR-W11B-11.0-11.5	11.0 - 11.5 ft	-0.4	-0.9	JC22346-7R	JC22346R	06/16/2016	remaining	N	Y		1.5	J			
W12B	114-MW24A	11.7	MW24A-14.0	14.0 - 14.5 ft	-2.3	-2.8	460-34209-11	460342091	12/01/2011	remaining	N	Y		< 1.1	U		S29	
W12B	FSP-W12B-PB	9.9	FSP-W12B-PB-9.5-10.0	9.5 - 10.0 ft	0.4	-0.1	JC46203-2R	JC46203	06/30/2017	remaining	N	Y		< 0.71	RA		S29	
W12B	FSP-W12B-PB	9.9	FSP-W12B-PB-9.5-10.0X	9.5 - 10.0 ft	0.4	-0.1	JC46203-3R	JC46203	06/30/2017	remaining	FD	Y		0.31	RA		S29	
W12B	FSP-W12B-SW-E1	9.9	FSP-W12B-SW-E-5.5-6.0	5.5 - 6.0 ft	4.4	3.9	JC46203-9R	JC46203	06/30/2017	remaining	N	Y		< 0.17	RA		S5, S29	
W12B	FSP-W12B-SW-E2	9.9	FSP-W12B-SW-E-7.5-8.0	7.5 - 8.0 ft	2.4	1.9	JC46203-8R	JC46203	06/30/2017	remaining	N	Y		0.81	RA		S5, S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-12.0-12.5	12.0 - 12.5 ft	-0.6	-1.1	JC31611-14R	JC31611R	11/11/2016	remaining	N	Y		10.7	J		S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-14.0-14.5	14.0 - 14.5 ft	-2.6	-3.1	JC31611-15R	JC31611R	11/11/2016	remaining	N	Y		11.1	J		S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-16.0-16.5	16.0 - 16.5 ft	-4.6	-5.1	JC31611-16	JC31611	11/11/2016	remaining	N	Y		0.80	J		S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-16.0-16.5X	16.0 - 16.5 ft	-4.6	-5.1	JC31611-17R	JC31611R	11/11/2016	remaining	FD	Y		2.5	J		S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-18.0-18.5	18.0 - 18.5 ft	-6.6	-7.1	JC31611-18R	JC31611R	11/11/2016	remaining	N	Y		3.2	J		S29	
W12B	NFS-PDI-W12BR	11.4	NFS-PDI-W12BR-20.0-20.5	20.0 - 20.5 ft	-8.6	-9.1	JC31611-19	JC31611	11/11/2016	remaining	N	Y		12.0	J		S29	
W12B	PSEG-SB46	9.9	PSEG-SB46D(10.0-10.5)J47741-5R	10.0 - 10.5 ft	-0.1	-0.6	J47741-5R	J47741	11/30/2006	remaining	N	Y		< 1.2	UJ		S29	
W12B	PSEG-SB46	9.9	PSEG-SB46E(11.0-11.5)J47741-6R	11.0 - 11.5 ft	-1.1	-1.6	J47741-6R	J47741	11/30/2006	remaining	N	Y		< 2.3	UJ		S29	
W12B	PSEG-SB46	9.9	PSEG-SB46F(14.5-15.0)J47741-7R	14.5 - 15.0 ft	-4.6	-5.1	J47741-7R	J47741	11/30/2006	remaining	N	Y		< 1.2	UJ		S29	
X11B	FS17	10.2	FS17-3.0-3.5	3.0 - 3.5 ft	7.2	6.7	JB63402-3R	JB63402R	03/31/2014	removed	N	Y		1.0	J		S30	
X11B	FS17	10.2	FS17-5.0-5.5	5.0 - 5.5 ft	5.2	4.7	JB63402-4	JB63402	03/31/2014	remaining	N	Y		1.1	J			
X11B	FS17	10.2	FS17-7.0-7.5	7.0 - 7.5 ft	3.2	2.7	JB63402-6	JB63402	03/31/2014	remaining	N	Y		1.6	J			
X11B	FS17	10.2	FS17-10.0-10.5	10.0 - 10.5 ft	0.2	-0.3	JB63402-7R	JB63402R	03/31/2014	remaining	N	Y		0.97	J			
X11B	FS17	10.2	FS17-10.0-10.5X	10.0 - 10.5 ft	0.2	-0.3	JB63402-8R	JB63402R	03/31/2014	remaining	FD	Y		0.84	J			
X11B	FS17	10.2	FS17-12.0-12.5	12.0 - 12.5 ft	-1.8	-2.3	JB63402-9R	JB63402R	03/31/2014	remaining	N	Y		1.0	J			
X11B	FS17	10.2	FS17-14.0-14.5	14.0 - 14.5 ft	-3.8	-4.3	JB63402-10	JB63402	03/31/2014	remaining	N	Y	UNDno (SM)	0.87	J		S31	
X11B	FS17	10.2	FS17-16.0-16.5	16.0 - 16.5 ft	-5.8	-6.3	JB63402-11	JB63402	03/31/2014	remaining	N	Y	UNDno (SM)	12.2	J		S31	
X11B	FS17	10.2	FS17-18.0-18.5	18.0 - 18.5 ft	-7.8	-8.3	JB63402-12	JB63402	03/31/2014	remaining	N	Y	UNDno (SM)	22.5	J		S31	
X11B	FS17	10.2	FS17-20.0-20.5	20.0 - 20.5 ft	-9.8	-10.3	JB63402-14	JB63402	03/31/2014	remaining	N	Y		7.6				
X11B	FS17	10.2	FS17-21.0-21.5	21.0 - 21.5 ft	-10.8	-11.3	JB63402-15	JB63402	03/31/2014	remaining	N	Y		7.6				
X11B	FS17	10.2	FS17-25.0-25.5	25.0 - 25.0 ft	-14.8	-14.8	JB63402-16R	JB63402R	03/31/2014	remaining	N	Y		5.8				
X11B	FS17	10.2	FS17-27.0-27.5	27.0 - 27.5 ft	-16.8	-17.3	JB63402-17R	JB63402R	03/31/2014	remaining	N	Y		8.8				

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Specific Notes (G22)
														Result (G18, G19)	Qualifier (G20, G21)			
X11B	FS17	10.2	FS17-29.0-29.5	29.0 - 29.5 ft	-18.8	-19.3	JB63402-18R	JB63402R	03/31/2014	remaining	N	Y	SM	62.4		S32		
X11B	FS17	10.2	FS17-30.0-30.5	30.0 - 30.5 ft	-19.8	-20.3	JB63402-20	JB63402	03/31/2014	remaining	N	Y		3.0				
X11B	FS17	10.2	FS17-32.0-32.5	32.0 - 32.5 ft	-21.8	-22.3	JB63402-21R	JB63402R	03/31/2014	remaining	N	Y		2.0				
X11B	FS17	10.2	FS17-35.0-35.5	35.0 - 35.5 ft	-24.8	-25.3	JB63402-22R	JB63402R	03/31/2014	remaining	N	Y		2.0				
X11B	FS17	10.2	FS17-37.0-37.5	37.0 - 37.5 ft	-26.8	-27.3	JB63402-23R	JB63402R	03/31/2014	remaining	N	Y		0.16	J			
X11B	FS17	10.2	FS17-39.0-39.5	39.0 - 39.5 ft	-28.8	-29.3	JB63402-24R	JB63402R	03/31/2014	remaining	N	Y		0.23	J			
X11B	FS-X11B-PB	10.2	FS-X11B-PB-5.2-5.7	5.2 - 5.7 ft	5.0	4.5	JC46447-4R	JC46447R	07/06/2017	remaining	N	Y		< 0.24	RA			
X11B	FS-X11B-PB	10.2	FS-X11B-PB-5.2-5.7X	5.2 - 5.7 ft	5.0	4.5	JC46447-5R	JC46447R	07/06/2017	remaining	FD	Y		0.32	RA			
X11B	P4-FOR-X11B	10.4	P4-FOR-X11B-7.5-8.0	7.5 - 8.0 ft	2.9	2.4	JC22558-9	JC22558	06/20/2016	remaining	N	Y		0.65	J			
X11B	P4-FOR-X11B	10.4	P4-FOR-X11B-8.0-8.5	8.0 - 8.5 ft	2.4	1.9	JC22558-10	JC22558	06/20/2016	remaining	N	Y	UNDno (ML)	< 0.37	UJ	S31		
X12B	FS-X11B-SW-N2	10.2	FS-X11B-SW-N-3.2-3.7	3.2 - 3.7 ft	7.0	6.5	JC46447-3R	JC46447R	07/06/2017	remaining	N	Y		1.1	RA	S5		
Y10B	114-P2B2-Y10B	11.3	114-P2B2-Y10B-8.5-9.0	8.5 - 9.0 ft	2.8	2.3	JB29692-12	JB29692	02/25/2013	removed	N	Y		0.21	J	S33		
Y10B	114-P2B2-Y10B	11.3	114-P2B2-Y10B-8.5-9.0X	8.5 - 9.0 ft	2.8	2.3	JB29692-11R	JB29692R	02/25/2013	removed	FD	Y		0.72	J	S33		
Y10B	114-P2B2-Y10B	11.3	114-P2B2-Y10B-10.5-11.0	10.5 - 11.0 ft	0.8	0.3	JB29692-10	JB29692	02/25/2013	removed	N	Y		0.24	J	S33		
Y10B	114-P2B2-Y10B	11.3	114-P2B2-Y10B-12.2-12.7	12.2 - 12.7 ft	-0.9	-1.4	JB29692-9R	JB29692R	02/25/2013	remaining	N	Y		< 0.20	UJ			
Y10B	114-P2B2-Y10B	11.3	114-P2B2-Y10B-12.7-13.2	12.7 - 13.2 ft	-1.4	-1.9	JB29692-8R	JB29692R	02/25/2013	remaining	N	Y		1.5	J			
Y10B	114-Y10B-PB	11.3	114-Y10B-PB-11.1-11.6	11.1 - 11.6 ft	0.2	-0.3	JB61864-4T	JB61864T	03/13/2014	remaining	N	Y		1.6	J			
Y10B	B901	11.6	B901-13_664552	13.0 - 13.5 ft	-1.4	-1.9	664552	R2318036	08/15/2003	remaining	N	Y		< 4.88	UJ			
Y11B	FS16	10.1	FS16-3.0-3.5	3.0 - 3.5 ft	7.1	6.6	JB63591-3	JB63591	04/02/2014	remaining	N	Y		< 0.088	U	S5		
Y11B	FS16	10.1	FS16-5.0-5.5	5.0 - 5.5 ft	5.1	4.6	JB63591-4	JB63591	04/02/2014	remaining	N	Y		0.55	J	S5		
Y11B	FS16	10.1	FS16-7.0-7.5	7.0 - 7.5 ft	3.1	2.6	JB63591-5	JB63591	04/02/2014	remaining	N	Y		< 0.11	U	S5		
Y11B	FS16	10.1	FS16-10.0-10.5	10.0 - 10.5 ft	0.1	-0.4	JB63591-7	JB63591	04/02/2014	remaining	N	Y		1.2		S5		
Y11B	FS16	10.1	FS16-10.0-10.5X	10.0 - 10.5 ft	0.1	-0.4	JB63591-8	JB63591	04/02/2014	remaining	FD	Y		0.88		S5		
Y11B	FS16	10.1	FS16-12.0-12.5	12.0 - 12.5 ft	-1.9	-2.4	JB63591-9	JB63591	04/02/2014	remaining	N	Y		1.7		S5		
Y11B	FS16	10.1	FS16-14.0-14.5	14.0 - 14.5 ft	-3.9	-4.4	JB63591-10	JB63591	04/02/2014	remaining	N	Y		0.35	J	S5		
Y11B	FS16	10.1	FS16-15.0-15.5	15.0 - 15.5 ft	-4.9	-5.4	JB63591-11	JB63591	04/02/2014	remaining	N	Y		0.19	J	S5		
Y11B	FS16	10.1	FS16-17.0-17.5	17.0 - 17.5 ft	-6.9	-7.4	JB63591-12	JB63591	04/02/2014	remaining	N	Y		7.5		S5		
Y11B	FS16	10.1	FS16-19.0-19.5	19.0 - 19.5 ft	-8.9	-9.4	JB63591-13	JB63591	04/02/2014	remaining	N	Y		7.6		S5		
Y11B	FS16	10.1	FS16-21.0-21.5	21.0 - 21.5 ft	-10.9	-11.4	JB63591-15	JB63591	04/02/2014	remaining	N	Y		12.8		S5		
Y11B	FS16	10.1	FS16-23.0-23.5	23.0 - 23.5 ft	-12.9	-13.4	JB63591-16	JB63591	04/02/2014	remaining	N	Y	SM	66.5		S5, S34		
Y11B	FS16	10.1	FS16-25.0-25.5	25.0 - 25.5 ft	-14.9	-15.4	JB63591-17	JB63591	04/02/2014	remaining	N	Y	SM	41.0		S5, S34		
Y11B	FS16	10.1	FS16-27.0-27.5	27.0 - 27.5 ft	-16.9	-17.4	JB63591-18	JB63591	04/02/2014	remaining	N	Y	SM	48.8		S5, S34		
Y11B	FS16	10.1	FS16-30.0-30.5	30.0 - 30.5 ft	-19.9	-20.4	JB63591-21	JB63591	04/02/2014	remaining	N	Y	SM	62.3		S5, S34		
Y11B	FS16	10.1	FS16-32.0-32.5	32.0 - 32.5 ft	-21.9	-22.4	JB63591-22	JB63591	04/02/2014	remaining	N	Y	SM	69.3		S5, S34		
Y11B	FS16	10.1	FS16-34.0-34.5	34.0 - 34.5 ft	-23.9	-24.4	JB63591-23	JB63591	04/02/2014	remaining	N	Y	SM	52.7		S5, S34		
Y11B	FS16	10.1	FS16-35.0-35.5	35.0 - 35.5 ft	-24.9	-25.4	JB63591-24	JB63591	04/02/2014	remaining	N	Y	SM	23.0		S5, S34		
Y11B	FS-Y10B-SW-N2	11.3	FS-Y10B-SW-N-4.5-5.0	4.5 - 5.0 ft	6.8	6.3	JC46311-12	JC46311	07/01/2017	remaining	N	Y		< 0.49	UJ	S5		
Y11B	FS-Y10B-SW-N3	11.3	FS-Y10B-SW-N-6.5-7.0	6.5 - 7.0 ft	4.8	4.3	JC46311-11	JC46311	07/01/2017	remaining	N	Y		< 0.51	UJ			
Y11B	FS-Y11B-PB	10.1	FS-Y11B-PB-2.1-2.6	2.1 - 2.6 ft	8.0	7.5	JC46311-14	JC46311	07/01/2017	remaining	N	Y		3.8	J	S5		
Y11B	FS-Z11B-SW-W2	9.9	FS-Z11B-SW-W-3.0-3.5	3.0 - 3.5 ft	6.9	6.4	JC46311-9	JC46311	07/01/2017	remaining	N	Y	FILL (FILL)	32.3	J	S5		
Y11B	P4-FOR-Y11B	10.4	P4-FOR-Y11B-7.5-8.0	7.5 - 8.0 ft	2.9	2.4	JC22762-15R	JC22762R	06/22/2016	remaining	N	Y		1.3	J			
Y11B	P4-FOR-Y11B	10.4	P4-FOR-Y11B-8.0-8.5	8.0 - 8.5 ft	2.4	1.9	JC22762-16R	JC22762R	06/22/2016	remaining	N	Y		2.4	J			
Y11B	P4-FOR-Y11BR	10.4	P4-FOR-Y11BR-20.0-20.5	20.0 - 20.5 ft	-9.6	-10.1	JC29975-17	JC29975	10/19/2016	remaining	N	Y	SP	20.4	J	S5, S35		
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-0.5-1.0	0.5 - 1.0 ft	9.9	9.4	JC22855-17R	JC22855R	06/23/2016	remaining	N	Y	FILL (FILL)	36.3	J	S36		
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-2.0-2.5	2.0 - 2.5 ft	8.4	7.9	JC22855-18	JC22855	06/23/2016	remaining	N	Y		10.4	J	S36		
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-4.0-4.5	4.0 - 4.5 ft	6.4	5.9	JC22855-19R	JC22855R	06/23/2016	remaining	N	Y		19.2	J	S36		
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-6.0-6.5	6.0 - 6.5 ft	4.4	3.9	JC22855-20	JC22855	06/23/2016	remaining	N	Y		< 0.35	UJ	S36		
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-6.5-7.0	6.5 - 7.0 ft	3.9	3.4	JC22855-21R	JC22855R	06/23/2016	remaining	N	Y		10.4	J	S36		

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Analyte CAS RN Units CrSCC		Specific Notes (G22)
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
Y12B	P4-FOR-Y12B	10.5	P4-FOR-Y12B-7.0-7.5	7.0 - 7.5 ft	3.4	2.9	JC22855-22	JC22855	06/23/2016	remaining	N	Y		1.0	J	S36
Y12B	P4-FOR-Y12BR	10.5	P4-FOR-Y12BR-0.5-1.0	0.5 - 1.0 ft	9.9	9.4	JC23104-12	JC23104	06/28/2016	remaining	N	Y		14.2	J	S36
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-9.0-9.5	9.0 - 9.5 ft	1.4	0.9	JC30142-16	JC30142	10/20/2016	remaining	N	Y		2.4	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-11.0-11.5	11.0 - 11.5 ft	-0.6	-1.1	JC30142-10	JC30142	10/20/2016	remaining	N	Y		0.69	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-13.0-13.5	13.0 - 13.5 ft	-2.6	-3.1	JC30142-11	JC30142	10/20/2016	remaining	N	Y		2.2	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-15.0-15.5	15.0 - 15.5 ft	-4.6	-5.1	JC30142-12	JC30142	10/20/2016	remaining	N	Y		7.2	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-17.0-17.5	17.0 - 17.5 ft	-6.6	-7.1	JC30142-13	JC30142	10/20/2016	remaining	N	Y		6.6	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-19.0-19.5	19.0 - 19.5 ft	-8.6	-9.1	JC30142-14	JC30142	10/20/2016	remaining	N	Y		5.5	J	S5
Y12B	P4-FOR-Y12BR2	10.4	P4-FOR-Y12BR2-20.0-20.5	20.0 - 20.5 ft	-9.6	-10.1	JC30142-15	JC30142	10/20/2016	remaining	N	Y		5.2	J	S5
Z10B	FS5	9.7	FS5-7.0-7.5	7.0 - 7.5 ft	2.7	2.2	JB63299-5	JB63299	03/28/2014	remaining	N	Y		2.5	J	S33, S37
Z10B	FS5	9.7	FS5-10.0-10.5	10.0 - 10.5 ft	-0.3	-0.8	JB63299-7	JB63299	03/28/2014	remaining	N	Y	FILL (FILL)	26.3	J	S37
Z10B	FS5	9.7	FS5-10.0-10.5X	10.0 - 10.5 ft	-0.3	-0.8	JB63299-8	JB63299	03/28/2014	remaining	FD	Y	FILL (FILL)	37.9	J	S37
Z10B	FS5	9.7	FS5-12.0-12.5	12.0 - 12.5 ft	-2.3	-2.8	JB63299-9	JB63299	03/28/2014	remaining	N	Y	FILL (FILL)	39.4	J	S37
Z10B	FS5	9.7	FS5-14.0-14.5	14.0 - 14.5 ft	-4.3	-4.8	JB63299-10	JB63299	03/28/2014	remaining	N	Y		18.1	J	
Z10B	FS5	9.7	FS5-16.0-16.5	16.0 - 16.5 ft	-6.3	-6.8	JB63299-11	JB63299	03/28/2014	remaining	N	Y		11.7	J	
Z10B	FS5	9.7	FS5-18.0-18.5	18.0 - 18.5 ft	-8.3	-8.8	JB63299-27	JB63299	03/28/2014	remaining	N	Y		18.1	J	
Z10B	FS5	9.7	FS5-20.0-20.5	20.0 - 20.5 ft	-10.3	-10.8	JB63299-13	JB63299	03/28/2014	remaining	N	Y		14.7	J	
Z10B	FS5	9.7	FS5-22.0-22.5	22.0 - 22.5 ft	-12.3	-12.8	JB63299-14	JB63299	03/28/2014	remaining	N	Y	SM	25.5	J	S38
Z10B	FS5	9.7	FS5-24.0-24.5	24.0 - 24.5 ft	-14.3	-14.8	JB63299-15	JB63299	03/28/2014	remaining	N	Y		12.2	J	
Z10B	FS5	9.7	FS5-26.0-26.5	26.0 - 26.5 ft	-16.3	-16.8	JB63299-16	JB63299	03/28/2014	remaining	N	Y	SM	30.2	J	S38
Z10B	FS5	9.7	FS5-28.0-28.5	28.0 - 28.5 ft	-18.3	-18.8	JB63299-17	JB63299	03/28/2014	remaining	N	Y		13.1	J	
Z10B	FS5	9.7	FS5-30.0-30.5	30.0 - 30.5 ft	-20.3	-20.8	JB63299-19	JB63299	03/28/2014	remaining	N	Y	SM	31.0	J	S38
Z10B	FS5	9.7	FS5-32.0-32.5	32.0 - 32.5 ft	-22.3	-22.8	JB63299-20	JB63299	03/28/2014	remaining	N	Y	SM	21.6	J	S38
Z10B	FS5	9.7	FS5-33.0-33.5	33.0 - 33.5 ft	-23.3	-23.8	JB63299-21	JB63299	03/28/2014	remaining	N	Y	SM	21.4	J	S38
Z10B	FS5	9.7	FS5-35.0-35.5	35.0 - 35.5 ft	-25.3	-25.8	JB63299-22	JB63299	03/28/2014	remaining	N	Y		< 0.092	UJ	
Z10B	FS5	9.7	FS5-37.0-37.5	37.0 - 37.5 ft	-27.3	-27.8	JB63299-23	JB63299	03/28/2014	remaining	N	Y		< 0.086	U	
Z10B	FS5	9.7	FS5-39.0-39.5	39.0 - 39.5 ft	-29.3	-29.8	JB63299-24	JB63299	03/28/2014	remaining	N	Y		< 0.083	UJ	
Z10B	P4-FOR-Z10B	10.1	P4-FOR-Z10B-12.5-13.0	12.5 - 13.0 ft	-2.4	-2.9	JC23205-10R	JC23205R	06/29/2016	remaining	N	Y		0.71	J	
Z11B	FS16A	10.0	FS16A-36.0-36.5	36.0 - 36.5 ft	-26.0	-26.5	JB97506-2	JB97506	06/19/2015	remaining	N	Y		12.3	J	
Z11B	FS16A	10.0	FS16A-38.0-38.5	38.0 - 38.5 ft	-28.0	-28.5	JB97506-3	JB97506	06/19/2015	remaining	N	Y		< 0.23	UJ	
Z11B	FS16A	10.0	FS16A-38.0-38.5X	38.0 - 38.5 ft	-28.0	-28.5	JB97506-4	JB97506	06/19/2015	remaining	FD	Y		< 0.22	UJ	
Z11B	FS16A	10.0	FS16A-40.0-40.5	40.0 - 40.5 ft	-30.0	-30.5	JB97506-5	JB97506	06/19/2015	remaining	N	Y		< 0.22	UJ	
Z11B	FS16A	10.0	FS16A-42.0-42.5	42.0 - 42.5 ft	-32.0	-32.5	JB97506-6	JB97506	06/19/2015	remaining	N	Y		< 0.23	UJ	
Z11B	FS16A	10.0	FS16A-44.0-44.5	44.0 - 44.5 ft	-34.0	-34.5	JB97506-7	JB97506	06/19/2015	remaining	N	Y		< 0.24	UJ	
Z11B	FS16A	10.0	FS16A-45.5-46.0	45.5 - 46.0 ft	-35.5	-36.0	JB97506-8	JB97506	06/19/2015	remaining	N	Y		< 0.24	UJ	
Z11B	FS-Z10B-SW-N	10.1	FS-Z10B-SW-N-5.4-5.9	5.4 - 5.9 ft	4.7	4.2	JC46311-6	JC46311	07/01/2017	remaining	N	Y		< 0.57	UJ	
Z11B	FS-Z11B-SW-N2	9.9	FS-Z11B-SW-N-3.0-3.5	3.0 - 3.5 ft	6.9	6.4	JC46311-7R	JC46311	07/01/2017	remaining	N	Y		2.1	J	S5
Z11B	P4-FOR-Z11B	10.0	P4-FOR-Z11B-4.0-4.5	4.0 - 4.5 ft	6.0	5.5	JC22461-20	JC22461	06/17/2016	remaining	N	Y	FILL (FILL)	25.5	J	S5
Z11B	P4-FOR-Z11B	10.0	P4-FOR-Z11B-6.0-6.5	6.0 - 6.5 ft	4.0	3.5	JC22461-21	JC22461	06/17/2016	remaining	N	Y		< 0.42	UJ	S5
Z11B	P4-FOR-Z11B	10.0	P4-FOR-Z11B-6.5-7.0	6.5 - 7.0 ft	3.5	3.0	JC22461-22T	JC22461T	06/17/2016	remaining	N	Y		0.67	J	S5
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-9.0-9.5	9.0 - 9.5 ft	1.1	0.6	JC30142-22	JC30142	10/20/2016	remaining	N	Y		< 0.38	UJ	
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-12.0-12.5	12.0 - 12.5 ft	-1.9	-2.4	JC30142-17	JC30142	10/20/2016	remaining	N	Y		1.8	J	
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-14.0-14.5	14.0 - 14.5 ft	-3.9	-4.4	JC30142-18	JC30142	10/20/2016	remaining	N	Y		1.9	J	
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-16.0-16.5	16.0 - 16.5 ft	-5.9	-6.4	JC30142-19	JC30142	10/20/2016	remaining	N	Y		3.8	J	
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-18.0-18.5	18.0 - 18.5 ft	-7.9	-8.4	JC30142-20	JC30142	10/20/2016	remaining	N	Y		12.7	J	
Z11B	P4-FOR-Z11BR	10.1	P4-FOR-Z11BR-20.0-20.5	20.0 - 20.5 ft	-9.9	-10.4	JC30142-21	JC30142	10/20/2016	remaining	N	Y		10.4	J	
Z11B	PSEG-SB47	9.9	PSEG-SB47B(5.0-5.5)J47582-2R	5.0 - 5.5 ft	4.9	4.4	J47582-2R	J47582	11/29/2006	remaining	N	Y		2.1	J	
Z11B	PSEG-SB47	9.9	PSEG-SB47BD(5.0-5.5)J47582-3R	5.0 - 5.5 ft	4.9	4.4	J47582-3R	J47582	11/29/2006	remaining	FD	Y		< 1.4	UJ	

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

													Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4)	Sample ID (G5)	Depth Interval (ft bgs) (G6)	Sample Start Elevation (ft NAVD88) (G4, G7, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	Matrix (G17)	Result (G18, G19)	Qualifier (G20, G21)	Specific Notes (G22)
Z11B	PSEG-SB47	9.9	PSEG-SB47C(7.0-7.4)J47582-4R	7.0 - 7.4 ft	2.9	2.5	J47582-4R	J47582	11/29/2006	remaining	N	Y		< 1.4	UJ	
Z11B	PSEG-SB47	9.9	PSEG-SB47D(10.0-10.5)J47582-5R	10.0 - 10.5 ft	-0.1	-0.6	J47582-5R	J47582	11/29/2006	remaining	N	Y		< 1.3	UJ	
Z12B	P4-FOR-Z12B	9.7	P4-FOR-Z12B-1.0-1.5	1.0 - 1.5 ft	8.7	8.2	JC22558-11	JC22558	06/20/2016	remaining	N	Y		0.39	J	S5
Z12B	P4-FOR-Z12B	9.7	P4-FOR-Z12B-3.0-3.5	3.0 - 3.5 ft	6.7	6.2	JC22558-12R	JC22558R	06/20/2016	remaining	N	Y	FILL (FILL)	28.9	J	S5
Z12B	P4-FOR-Z12B	9.7	P4-FOR-Z12B-3.0-3.5X	3.0 - 3.5 ft	6.7	6.2	JC22558-13	JC22558	06/20/2016	remaining	FD	Y		17.2	J	S5
Z12B	P4-FOR-Z12B	9.7	P4-FOR-Z12B-6.0-6.5	6.0 - 6.5 ft	3.7	3.2	JC22558-14	JC22558	06/20/2016	remaining	N	Y		1.2	J	S5
Z12B	P4-FOR-Z12B	9.7	P4-FOR-Z12B-6.5-7.0	6.5 - 7.0 ft	3.2	2.7	JC22558-15R	JC22558R	06/20/2016	remaining	N	Y		0.42	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-4.0-4.5	4.0 - 4.5 ft	5.8	5.3	JC30142-30	JC30142	10/20/2016	remaining	N	Y		0.46	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-8.0-8.5	8.0 - 8.5 ft	1.8	1.3	JC30142-31	JC30142	10/20/2016	remaining	N	Y		< 0.42	UJ	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-10.0-10.5	10.0 - 10.5 ft	-0.2	-0.7	JC30142-23	JC30142	10/20/2016	remaining	N	Y		1.0	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-12.0-12.5	12.0 - 12.5 ft	-2.2	-2.7	JC30142-24	JC30142	10/20/2016	remaining	N	Y		0.60	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-14.0-14.5	14.0 - 14.5 ft	-4.2	-4.7	JC30142-25	JC30142	10/20/2016	remaining	N	Y		0.36	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-16.0-16.5	16.0 - 16.5 ft	-6.2	-6.7	JC30142-26	JC30142	10/20/2016	remaining	N	Y		4.2	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-18.0-18.5	18.0 - 18.5 ft	-8.2	-8.7	JC30142-27	JC30142	10/20/2016	remaining	N	Y		5.6	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-20.0-20.5	20.0 - 20.5 ft	-10.2	-10.7	JC30142-28	JC30142	10/20/2016	remaining	N	Y		7.8	J	S5
Z12B	P4-FOR-Z12BR	9.8	P4-FOR-Z12BR-20.0-20.5X	20.0 - 20.5 ft	-10.2	-10.7	JC30142-29	JC30142	10/20/2016	remaining	FD	Y		12.9	J	S5

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

ABBREVIATIONS:

bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
Chromium Policy - Memorandum from NJDEP Commissioner Lisa P. Jackson to Irene Kropp, Subject: *Chromium Moratorium* (Chromium Policy), dated February 8, 2007.
COPR - Chromite Ore Processing Residue
Cr - chromium
Cr⁺⁶ - hexavalent chromium
CrSCC - Chromium Soil Cleanup Criteria
El. - elevation
FD - field duplicate sample type
Forrest RAWP - March 2018 *Interim Remedial Action Work Plan, Forrest Street and Forrest Street Properties Deferred Remediation Areas* (AECOM)
Forrest TEE Submittal - March 2017 *Forrest Street and Forrest Street Properties – Proposed Terminal Excavation Elevations Submittal (Revision 1)* (AECOM), as accepted by NJDEP on May 25, 2017.
ft - feet
HDPE - high-density polyethylene
Method to Determine Compliance - Letter from Mr. Thomas Cozzi to W. Michael McCabe, Subject: Re: *Updated Method to Determine Compliance with the Department's Chromium Policy, Garfield Avenue – Sites 114, 132, 133, 135, 137, and 143, Jersey City, NJ.* August 13, 2013.
mg/kg - milligrams per kilogram
MGP - manufactured gas plant
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
PDI - Pre-Design Investigation
RI - Remedial Investigation
SDG - sample delivery group
TEE - terminal excavation elevation
U.S. - United States
USCS - Unified Soil Classification System

MATRICES:

FILL - fill
MM - meadow mat
UND - undisturbed native deposit
UNDno - non-organic undisturbed native deposit
UNDorg - organic undisturbed native deposit

USCS Classifications:

ML - silt
OL - organic silt
PT - peat
SM - silty sand
SP - poorly-graded sand
SW - well-graded sand

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
J- - The analyte was positively identified; the associated numerical value is an estimated quantity with a potential low bias.
RA - The result was rejected due to deficiencies but is considered usable for decision-making purposes.
U - The analyte was not detected above the sample reporting limit shown.
UJ - The analyte was not detected above the sample reporting limit shown and the reporting limit was approximate.

GENERAL NOTES:

G1. "Grid ID" refers to an area, typically 30 ft by 30 ft, identified as Grid Row V through HH (extending west to east) and Grid Column 7B through 12B (extending from south to north).
G2. "Location ID" refers to the location name where samples were collected.
G3. "Location Elevation" refers to the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
G4. Elevation vertical datum is NAVD88, in U.S. survey ft.
G5. "Sample ID" refers to the name of a sample collected at a given location and is unique to the depth of the sample collected. The depth listed in the Sample ID may not necessarily correspond to the actual sample depth interval due to corrections made as a result of post-field work review of surveyed surface elevations and/or boring logs. In some cases, the "Sample ID" in the table is a variant of the sample ID in the laboratory report and/or data validation report. In these cases, the "Lab ID" associates the sample results to the laboratory report and/or data validation report.
G6. "Depth Interval" is based on the "Location Elevation."
G7. "Sample Start Elevation" refers to the start of the sample interval. There may be up to 0.1 ft variation between the listed Sample Start Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G8. In some grids, there may be up to 0.1 ft variation between the sample start elevation of the clean confirmation pit bottom or sidewall sample and the post-excavation elevation survey point due to rounding of the numbers.
G9. In some grids, the clean confirmation sample was collected prior to excavation and, therefore, a pit bottom sample was not collected. As a result, the clean confirmation sample elevation may vary from the as-built TEE. In addition, sometimes the clean confirmation sample was removed during excavation.
G10. "Sample End Elevation" refers to the end of the sample interval. There may be up to 0.1 ft variation between the listed Sample End Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
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- G11. "Lab ID" refers to the identification number assigned to the sample by the analytical laboratory performing the sample analysis. "Lab SDG" refers to the delivery group number assigned to the sample by the analytical laboratory.
- G12. "Date Collected" refers to the date the soil sample was collected.
- G13. "Sample Status" indicates whether a sample is remaining or removed:
- "Remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location; and
 - "Removed" indicates the sample was removed during excavation.
- G14. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 5-1.
- G15. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
- G16. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
- G17. For samples with Cr⁺⁶ CrSCC exceedances, the USCS Classification is provided. Where the sample was collected above 20 ft bgs, the matrix (e.g., MM, UND, UNDno, UNDorg, or FILL) is also specified. In the event that a post-excavation sample supersedes a sample with Cr⁺⁶ CrSCC exceedances, the USCS Classification, and matrix if applicable, for the post-excavation sample is also provided.
- G18. "Result" refers to the analytical result which is reported in mg/kg.
- G19. Bold text indicates that the result exceeds the CrSCC. Non-bold text indicates that the result does not exceed the CrSCC.
- G20. "Qualifier" refers to the data qualifier assigned by the data validation team reviewing the data from the laboratory for validated data. For unvalidated data, it refers to the qualifier assigned by the laboratory.
- G21. Non-detect results are shown on this table using the Method Detection Limit, if available; otherwise they are shown at the Reporting Limit.
- G22. As described in the Forrest TEE Submittal, remedial excavation in Forrest Street was conducted to address shallow CCPW impacts. CCPW impacts in deeper soil within Forrest Street are attributed to historically contaminated groundwater, which had migrated from Site 114. The basis for the remedial excavation was (1) to remove visually-observed CCPW; (2) to remove soil that exhibited analytical results exceeding the CrSCC for Cr⁺⁶ above the water table; (3) where shallow soil that exhibited analytical results exceeding the CrSCC for Cr⁺⁶ extended into and through the water table, the remedial excavation extended to the shallower of the shallowest clean sample or 20 ft bgs, whichever was shallower; and (4) to remove shallow soil that exhibited analytical results exceeding 1,000 mg/kg for Cr⁺⁶. The groundwater elevation was conservatively estimated during the remedial design phase to be El. 5.0 ft, based on groundwater elevation measurements recorded between September and December 2015 in Forrest Street and Forrest Street Properties. Following excavation, historical groundwater data was reevaluated and the groundwater elevation was estimated as the 50th percentile groundwater elevation from seven monitoring wells located on or adjacent to Forrest Street gauged between December 2003 and December 2016. The monitoring well locations and data are included in Appendix A. The estimated groundwater elevation for this Site is El. 6.3 ft NAVD88.

SPECIFIC NOTES:

- S1. In Grid AA10B, the removed sample FS15-5.0-5.5 and its field duplicate FS15-5.0-5.5X (El. 4.9 to 4.4 ft NAVD88) serve as a Grid AA10B Cr⁺⁶ northern sidewall confirmation sample.
- S2. Partial Grid AA9B was excavated to the same elevation as adjacent partial Grid AA10B. Sample FS15-7.0-7.5 (El. 2.9 to 2.4 ft NAVD88) from Grid AA10B serves as the Cr⁺⁶ confirmation pit bottom sample for Grid AA9B.
- S3. In Grid AA10B, Cr⁺⁶ results for samples FS15-13.0-13.5 (El. -3.1 to -3.6 ft NAVD88) and FS15-15.0-15.5 (El. -5.1 to -5.6 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance. These samples were collected in UND and a shallower clean sample (FS15-11.0-11.5 [El. -1.1 to -1.6 ft NAVD88]) was also collected in UND above these samples in Grid AA10B. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.
- S4. In Grid AA10B, the Cr⁺⁶ results for samples FS15-22.0-22.5, FS15-24.0-24.5, FS15-26.0-26.5, FS15-32.0-32.5, and FS15-34.0-34.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.
- S5. This sample is remaining in place within the Forrest Street Utility Offset, which is being addressed via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice), as appropriate for the abutting Forrest Street Properties' current use, as described in the Forrest RAWP.
- S6. In Grid AA11B, CCPW was observed in boring EF-06 from El. 9.8 to 5.3 ft NAVD88 and remains in place from El. 8.3 to 5.3 ft NAVD88. Remaining CCPW is being addressed via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice), per the Forrest RAWP.
- S7. In Grid AA11B, Cr⁺⁶ results for samples EF-B06-12.0 (El. -1.7 to -2.2 ft NAVD88), EF-B06-17.0 (El. -6.7 to -7.2 ft NAVD88), FS2-8.0-8.5 (El. 2.0 to 1.5 ft NAVD88), FS2-10.0-10.5 (El. 0.0 to -0.5 ft NAVD88), FS2-12.0-12.5 (El. -2.0 to -2.5 ft NAVD88), P4-FOR-AA11BR-7.0-7.5 (El. 3.3 to 2.8 ft NAVD88), P4-FOR-AA12B-6.0-6.5 (El. 3.8 to 3.3 ft NAVD88), P4-FOR-AA12BR-6.5-7.0 (El. 3.3 to 2.8 ft NAVD88), P4-FOR-AA12BR-12.0-12.5 (El. -2.3 to -2.8 ft NAVD88), and P4-FOR-AA12BR-14.0-14.5 (El. -4.3 to -4.8 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Forrest TEE Submittal because: 1) these samples are not commingled with CCPW; 2) these samples were collected in saturated soils below the estimated design groundwater elevation (El. 5.0 ft NAVD88); 3) shallower clean samples (EF-B06-6.0 [El. 4.3 to 3.8 ft NAVD88], P4-FOR-AA12B-2.0-2.5 [El. 7.8 to 7.3 ft NAVD88], and P4-FOR-AA12B-4.0-4.5 [El. 5.8 to 5.3 ft NAVD88]) were collected above these samples in Grid AA11B; and 4) Cr⁺⁶ is less than 1,000 mg/kg. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.
- S8. In Grid AA11B, the Cr⁺⁶ results for samples EF-B06-22.0, FS2-20.0-20.5, FS2-22.0-22.5, FS2-24.0-24.5, FS2-26.0-26.5, and FS2-28.0-28.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.
- S9. In Grid BB9B, the eastern portion of the grid was excavated to the estimated design groundwater table elevation (El. 5.0 ft NAVD88) to remove shallow Cr⁺⁶ impacts as described in General Note G22. The sample P4-FOR-BB9B-7.0-7.5 (El. 3.8 to 3.3 ft NAVD88) from the closest interval below the remaining soil in the shallowest part of the grid serves as the Cr⁺⁶ confirmation pit bottom sample. Samples at a similar interval from adjacent Grid BB10B (FS1-5.0-5.5 and its field duplicate FS1-5.0-5.5X [El. 5.2 to 4.7 ft NAVD88]) provide supporting evidence that this interval within Grid BB9B is in compliance with the Chromium Policy. The western portion of Grid BB9B was excavated to the same elevation as adjacent Grid AA10B (El. 2.7 ft NAVD88) so that removed PDI samples from boring P4-FOR-BB9B serve as confirmation sidewall samples for the west-to-east slope from El. 2.7 to 5.0 ft NAVD88. These PDI samples horizontally delineate the Cr⁺⁶ encountered within Grid AA10B.
- S10. In Grid BB9B, Cr⁺⁶ results for samples P4-FOR-BB9B-10.5-11.0 (El. 0.3 to -0.3 ft NAVD88) and P4-FOR-BB9B-11.0-11.5 (El. -0.3 to -0.8 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Forrest TEE Submittal because: 1) these samples are not commingled with CCPW; 2) these samples were collected in saturated soils below the estimated design groundwater elevation (El. 5.0 ft NAVD88); 3) shallower clean samples (P4-FOR-BB9B-7.0-7.5 [El. 3.8 to 3.3 ft NAVD88], P4-FOR-BB9B-9.0-

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
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9.5 [El. 1.8 to 1.3 ft NAVD88], P4-FOR-BB9BR-8.5-9.0 [El. 2.0 to 1.5 ft NAVD88], and P4-FOR-BB9BR-9.0-9.5 [El. 1.5 to 1.0 ft NAVD88]) were collected above these samples in Grid BB9B; and 4) Cr⁺⁶ is less than 1,000 mg/kg. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.

S11. In Grid BB10B, the southern portion of the grid was excavated to the estimated design groundwater table elevation (El. 5.0 ft NAVD88) to remove shallow Cr⁺⁶ impacts as described in General Note G22. Removed sample FS1-5.0-5.5 and its field duplicate FS1-5.0-5.5X (El. 5.2 to 4.7 ft NAVD88) from the closest interval above the remaining soil in the shallowest part of the grid serves as the Cr⁺⁶ confirmation pit bottom sample.

The southwestern portion of Grid BB10B was further excavated to the same elevation as Grid AA10B (El. 2.7 ft NAVD88) so that removed PDI samples from boring P4-FOR-BB10B serve as confirmation sidewall samples for the west-to-east slope from El. 2.7 to 5.0 ft NAVD88. These PDI samples horizontally delineate the Cr⁺⁶ encountered within Grid AA10B. The removed samples FS1-2.0-2.5 (El. 8.2 to 7.7 ft NAVD88) and P4-FOR-BB10B-3.0-3.5 and its field duplicate P4-FOR-BB10B-3.0-3.5X (El. 7.3 to 6.8 ft NAVD88) serve as Cr⁺⁶ northern sidewall confirmation samples for the western portion of Grid BB10B.

In the northern portion of Grid BB10B, remediation is being addressed via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice), per the Forrest RAWP.

S12. In Grid BB10B, the Cr⁺⁶ result for sample P4-FOR-BB10BR-19.0-19.5 (El. -8.4 to -8.9 ft NAVD88) was greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance. This sample was collected in UND and shallower clean samples (FS1-13.0-13.5 [El. -2.8 to -3.3 ft NAVD88], FS1-15.0-15.5 [El. -4.8 to -5.3 ft NAVD88], FS1-17.0-17.5 [El. -6.8 to -7.3 ft NAVD88], and P4-FOR-BB10B-6.5-7.0 [El. 3.8 to 3.3 ft NAVD88]) were also collected in UND above this sample in Grid BB10B. The higher Cr⁺⁶ concentration at a deeper elevation but not shallower elevations indicates that the sample with a Cr⁺⁶ concentration greater than 20 mg/kg results from contact with historically-impacted groundwater.

S13. In Grid BB10B, the Cr⁺⁶ northern confirmation sidewall sample at location FSP-BB10B-SW-N (sample FSP-BB10B-SW-N-1.2-1.7 [El. 9.0 to 8.5 ft NAVD88]) is partially remaining and partially removed, as the north sidewall excavation slope was re-excavated during restoration.

S14. In Grid BB11B, Cr⁺⁶ results for samples EF-111A-7.0-7.5 (El. 3.4 to 2.9 ft NAVD88), EF-111A-8.0-8.5 (El. 2.4 to 1.9 ft NAVD88), FS3-5.0-5.5 (El. 5.1 to 4.6 ft NAVD88), FS3-7.0-7.5 (El. 3.1 to 2.6 ft NAVD88), FS3-9.0-9.5 (El. 1.1 to 0.6 ft NAVD88), FS3-11.0-11.5 (El. -0.9 to -1.4 ft NAVD88), FS4-7.0-7.5 (El. 3.1 to 2.6 ft NAVD88), and FS4-9.0-9.5 (El. 1.1 to 0.6 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Forrest TEE Submittal because: 1) these samples are not commingled with CCPW; 2) these samples were collected in saturated soils substantially below the estimated design groundwater elevation (El. 5.0 ft NAVD88); 3) shallower clean samples (EF-111A-2.0-2.5 [El. 8.4 to 7.9 ft NAVD88], EF-111A-3.0-3.5 [El. 7.4 to 6.9 ft NAVD88], EF-111A-5.0-5.5 and its field duplicate EF-111A-5.0-5.5X [El. 5.4 to 4.9 ft NAVD88], FS3-3.0-3.5 and its field duplicate FS3-3.0-3.5X [El. 7.1 to 6.6 ft NAVD88], FS4-3.0-3.5 and its field duplicate FS4-3.0-3.5X [El. 7.1 to 6.6 ft NAVD88], and FSTP2-4.3-4.8 [El. 5.6 to 5.1 ft NAVD88]) were collected above these samples in Grid BB11B; and 4) Cr⁺⁶ is less than 1,000 mg/kg. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.

S15. In Grid BB11B, the Cr⁺⁶ results for samples EF-111A-23.0-23.5, FS3-24.0-24.5, FS3-26.0-26.5, FS4-26.0-26.5, and FS4-28.0-28.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

S16. In Grid CC9B, the Cr⁺⁶ result for sample P4-FOR-CC9BR-18.0-18.5 (El. -7.6 to -8.1 ft NAVD88) was greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance. This sample was collected in UND and shallower clean samples (P4-FOR-CC9B-7.0-7.5 [El. 3.5 to 3.0 ft NAVD88], P4-FOR-CC9BR-10.0-10.5 [El. 0.4 to -0.1 ft NAVD88], P4-FOR-CC9BR-12.0-12.5 and its field duplicate P4-FOR-CC9BR-12.0-12.5X [El. -1.6 to -2.1 ft NAVD88], and P4-FOR-CC9BR-16.0-16.5 [El. -5.6 to -6.1 ft NAVD88]) were also collected in UND above this sample in Grid CC9B. The higher Cr⁺⁶ concentration at a deeper elevation but not shallower elevations indicates that the sample with a Cr⁺⁶ concentration greater than 20 mg/kg results from contact with historically-impacted groundwater.

S17. In Grid CC9B, the removed sample PSEG-SB48B(4.0-4.9)J47449-7 and its field duplicate PSEG-SB48BD(4.0-4.9)J47449-8 (El. 6.9 to 6.0 ft NAVD88) serve as the Cr⁺⁶ confirmation pit bottom samples; these samples were removed because the grid was excavated to the estimated design groundwater table elevation (El. 5.0 ft NAVD88) as described in General Note G22.

S18. In Grid CC10B, Cr⁺⁶ results for samples P4-FOR-CC10B-9.0-9.5 (El. 1.7 to 1.2 ft NAVD88) and P4-FOR-CC10B-10.5-11.0 (El. 0.2 to -0.3 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Forrest TEE Submittal because: 1) these samples are not commingled with CCPW; 2) these samples were collected in saturated soils below the estimated design groundwater elevation (El. 5.0 ft NAVD88); 3) shallower clean samples (P4-FOR-CC10B-3.0-3.5 [El. 7.7 to 7.2 ft NAVD88], P4-FOR-CC10B-5.0-5.5 [El. 5.7 to 5.2 ft NAVD88], and P4-FOR-CC10B-7.0-7.5 [El. 3.7 to 3.2 ft NAVD88]) were collected above these samples in Grid CC10B; and 4) Cr⁺⁶ is less than 1,000 mg/kg. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.

S19. In Grid CC10B, the PDI sample P4-FOR-CC10B-5.0-5.5 (El. 5.7 to 5.2 ft NAVD88) serves as the Cr⁺⁶ confirmation pit bottom sample for the southern portion of the grid that was excavated to the estimated design groundwater table elevation (El. 5.0 ft NAVD88). In the northern portion of Grid CC10B, remediation is being addressed engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice), per the Forrest RAWP.

S20. In Grid CC11B, the Cr⁺⁶ results for samples EF110A-12.0-12.5 (El. -0.9 to -1.4 ft NAVD88), EF-B111-7.5-8.0 (El. 3.0 to 2.5 ft NAVD88), EF-B111-11.0-11.5 (El. -0.5 to -1.0 ft NAVD88), EF-B111-13.0-13.5 (El. -2.5 to -3.0 ft NAVD88), EF-B111-15.0-15.5 (El. -4.5 to -5.0 ft NAVD88), EF-B111-17.0-17.5 (El. -6.5 to -7.0 ft NAVD88), and P4-FOR-CC11BR-10.0-10.5 (El. 0.6 to 0.1 ft NAVD88) were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance. These samples were collected in UND and shallower clean samples (EF110A-8.0-8.5 [El. 3.1 to 2.6 ft NAVD88], EF-B111-6.0-6.5 [El. 4.5 to 4.0 ft NAVD88], and P4-FOR-CC11BR-5.0-5.5 [El. 5.6 to 5.1 ft NAVD88]) were also collected in UND above these samples in Grid CC11B. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.

S21. In Grid CC11B, the Cr⁺⁶ results for samples EF110A-20.0-20.5, EF110A-22.0-22.5, EF110A-24.0-24.5, EF110A-26.0-26.5, and EF110A-28.0-28.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
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S22. In Grid CC11B, the Cr⁺⁶ results for samples EF-B111-20.0-20.5, EF-B111-22.4-22.9, and EF-B111-25.0-25.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are coarse grained (SW and SP); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

S23. Partial Grid DD8B was excavated to the same elevation as adjacent partial Grid DD9B. Removed sample P4-FOR-DD9B-0.8-1.3 (El. 10.0 to 9.5 ft NAVD88) from Grid DD9B serves as the Cr⁺⁶ confirmation pit bottom sample for both Grid DD9B and Grid DD8B. This sample was removed as part of the sub-grade excavation for restoration.

S24. Partial Grid GG7B and adjacent partial Grid GG8B did not require remediation for Cr⁺⁶. PDI samples from locations P4-FOR-GG8B and P4-FOR-GG8BR serve as the Cr⁺⁶ confirmation samples for both Grid GG7B and Grid GG8B.

S25. Partial Grid GG10B and partial adjacent Grid GG9B did not require remediation for Cr⁺⁶. PDI samples from locations P4-FOR-GG9B and P4-FOR-GG9BR serve as the Cr⁺⁶ confirmation samples both Grid GG10B and Grid GG9B.

S26. In Grid HH7B, the samples from PDI boring P4-HSN-HH7B located in Halladay Street North were used in the evaluation of compliance for the portion of the grid located within Forrest Street.

S27. In Grid HH8B, COPR was recorded in RI boring EF-07 from El. 12.0 to 10.3 ft NAVD88. However, the COPR noted in the boring log was likely not COPR, but iron oxides, which are similar in appearance to COPR. Additional borings (P4-FOR-HH8B and P4-FOR-HH8BR) were advanced in this grid during the June and October 2016 PDI programs and no CCPW was observed. Cr⁺⁶ concentrations for samples collected from this grid were less than the CrSCC. Additionally, no CCPW was observed in the surrounding grids along Halladay Street North and Forrest Street. In 2017, a test pit (EF-07-TP) was advanced with Weston Solutions, Inc. and AECOM oversight confirming the absence of CCPW. Therefore, no remediation is required in Grid HH8B.

S28. In Grid V12B, the Cr⁺⁶ result for sample NFS-PDI-V12B-15.0-15.5 (El. -0.7 to -1.2 ft NAVD88) was greater than 20 mg/kg but in compliance with the Chromium Policy because the sample was actually removed. Based on the sample elevation (El. -0.7 to -1.2 ft NAVD88) as compared to the as-built TEE (El. -1.0 ft NAVD88), a portion of this sample appears to be remaining in place; however, based on field observations, this sample was actually removed. The boring log indicates this sample was collected from fill above MM. The excavation field notes indicate that the fill material was removed and this grid was excavated to visually clean MM. The original exceedance was superseded by a clean confirmation pit bottom sample (FSP-V12B-PB-15.3-15.8 [El. -1.0 to -1.5 ft NAVD88]). The Cr⁺⁶ result for the confirmatory pit bottom sample was less than 20 mg/kg.

S29. The portions of Grids V12B and W12B located in Forrest Street Properties were excavated concurrently with the portion of these grids located in Forrest Street. Remaining samples located within these grids in their entirety (i.e., on both sides) are included in this table.

S30. In Grid X11B, the removed sample FS17-3.0-3.5 (El. 7.2 to 6.7 ft NAVD88) serves as the Grid X11B Cr⁺⁶ eastern sidewall confirmation sample.

S31. In Grid X11B, the Cr⁺⁶ result for sample FS17-18.0-18.5 (El. -7.8 to -8.3 ft NAVD88) was greater than 20 mg/kg but is in compliance with the Chromium Policy per the Method to Determine Compliance. This sample was collected in UND and shallower clean samples (FS17-14.0-14.5 [El. -3.8 to -4.3 ft NAVD88], FS17-16.0-16.5 [El. -5.8 to -6.3 ft NAVD88], and P4-FOR-X11B-8.0-8.5 [El. 2.4 to 1.9 ft NAVD88]) were also collected in UND above this sample in Grid X11B. The higher Cr⁺⁶ concentration at a deeper elevation but not shallower elevations indicates that the sample with a Cr⁺⁶ concentration greater than 20 mg/kg results from contact with historically-impacted groundwater.

S32. In Grid X11B, the Cr⁺⁶ result for sample FS17-29.0-29.5 (El. -18.8 to -19.3 ft NAVD88) was greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the sample is in UND; 2) UND is not commingled with CCPW; 3) the sample is deeper than 20 ft below pre-remediation surface elevation; 4) the sample is not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

S33. In Grid Y10B, the southern portion of the grid located in Site 114, Phase 2B-2 was excavated to El. 0.2 ft NAVD88. Excavation in the Site 114, Phase 2B-2 portion of the grid proceeded deeper than required for Cr⁺⁶ remediation to address MGP impacts as per the April 2013 technical memorandum entitled *PPG Site 114, Excavation Depths in Phase 2B-2 Rows T-Z, Columns 0-11B* (AECOM), removing the PDI sample 114-P2B2-Y10B-8.5-9.0 and its field duplicate 114-P2B2-Y10B-8.5-9.0X (El. 2.8 to 2.3 ft NAVD88) that serve as the Cr⁺⁶ confirmation pit bottom samples on the Forrest Street portion of Grid Y10B, north of the sheet pile. The sample 114-P2B2-Y10B-10.5-11.0 (El. 0.8 to 0.3 ft NAVD88) was also removed as a result of the MGP excavation in the southern portion of Grid Y10B. MGP was not encountered in the Forrest Street portion of Grid Y10B; therefore, excavation was conducted to El. 2.8 ft NAVD88. Sample FS5-7.0-7.5 from adjacent Grid Z10B was collected at El. 2.7 ft NAVD88 and serves as an additional line of evidence that the portion of Grid Y10B located in Forrest Street is in compliance with the Chromium Policy.

S34. In Grid Y11B, the Cr⁺⁶ results for samples FS16-23.0-23.5, FS16-25.0-25.5, FS16-27.0-27.5, FS16-30.0-30.5, FS16-32.0-32.5, FS16-34.0-34.5, and FS16-35.0-35.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

S35. In Grid Y11B, the Cr⁺⁶ result for sample P4-FOR-Y11BR-20.0-20.5 was greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the sample is in UND; 2) UND is not commingled with CCPW; 3) the sample is deeper than 20 ft below pre-remediation surface elevation; 4) the sample is coarse grained (SP); and 5) Cr⁺⁶ is less than 1,000 mg/kg.

S36. This sample is remaining in place within the 100 Forrest Street Loading Dock Driveway, which is being addressed via engineering controls (Existing Asphalt and Concrete Cap) and institutional controls (notice in lieu of deed notice), as appropriate for the abutting Forrest Street Properties' current use, as described in the Forrest RAWP.

S37. In Grid Z10B, Cr⁺⁶ results for samples FS5-10.0-10.5 and its field duplicate FS5-10.0-10.5X (El. -0.3 to -0.8 ft NAVD88), and FS5-12.0-12.5 (El. -2.3 to -2.8 ft NAVD88) are greater than 20 mg/kg but are in compliance with the Chromium Policy per the Forrest TEE Submittal because: 1) these samples are not commingled with CCPW; 2) these samples were collected in saturated soils below the estimated design groundwater elevation (El. 5.0 ft NAVD88); 3) a shallower clean sample (FS5-7.0-7.5 [El. 2.7 to 2.2 ft NAVD88]) was collected above these samples in Grid Z10B; and 4) Cr⁺⁶ is less than 1,000 mg/kg. The higher Cr⁺⁶ concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr⁺⁶ concentrations greater than 20 mg/kg result from contact with historically-impacted groundwater.

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Forrest Street, Garfield Avenue Group
PPG, Jersey City, New Jersey

S38. In Grid Z10B, the Cr⁺⁶ results for samples FS5-22.0-22.5, FS5-26.0-26.5, FS5-30.0-30.5, FS5-32.0-32.5, and FS5-33.0-33.5 were greater than 20 mg/kg but in compliance with the Chromium Policy per the Method to Determine Compliance because: 1) the samples are in UND; 2) UND is not commingled with CCPW; 3) the samples are deeper than 20 ft below pre-remediation surface elevation; 4) the samples are not coarse grained (SM); and 5) Cr⁺⁶ is less than 1,000 mg/kg.