

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

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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	CHROMIUM (HEXAVALENT)	Specific Notes
														CAS RN Units CrSCC	18540-29-9 mg/kg 20	
Q38A	133-B20	11.9	PPG-133-B20F_10.0-10.5_794508	10.0 - 10.5 ft	1.9	1.4	794508	B013	12/18/2006	remaining	N	Y		< 2.67	UJ	S1
Q38A	133-B20	11.9	PPG-133-B20G_11.1-11.6_794509	11.1 - 11.6 ft	0.8	0.3	794509	B013	12/18/2006	remaining	N	Y		< 3.51	UJ	S1
Q38A	133-B20	11.9	PPG-133-B20H_13.0-14.0_794510	13.0 - 14.0 ft	-1.1	-2.1	794510	B013	12/18/2006	remaining	N	Y		< 3.59	UJ	S1
Q38A	133-B20	11.9	PPG-133-B20I_17.0-17.5_794511	17.0 - 17.5 ft	-5.1	-5.6	794511	B013	12/18/2006	remaining	N	Y		< 3.91	UJ	S1
Q38A	133-B20	11.9	PPG-133-B20J_18.8-19.3_794512	18.8 - 19.3 ft	-6.9	-7.4	794512	B013	12/18/2006	remaining	N	Y		< 2.45	UJ	S1
Q39A	133-HSS-Q39A-PB	11.9	133-HSS-Q39A-PB-9.5-10.0	9.5 - 10.0 ft	2.4	1.9	JB97776-2R	JB97776R	06/24/2015	remaining	N	Y		8.4	J	S1
Q40A	133-P3B-Q40A	12.0	133-P3B-Q40A-10.0-10.5	10.0 - 10.5 ft	2.0	1.5	JB37135-12R	JB37135R	05/15/2013	remaining	N	Y		1.1	J	S1
Q40A	133-P3B-Q40A	12.0	133-P3B-Q40A-12.0-12.5	12.0 - 12.5 ft	0.0	-0.5	JB37135-13R	JB37135R	05/15/2013	remaining	N	Y		0.83	J	S1
Q40A	133-P3B-Q40A	12.0	133-P3B-Q40A-12.5-13.0	12.5 - 13.0 ft	-0.5	-1.0	JB37135-14	JB37135	05/15/2013	remaining	N	Y		0.63	J	S1
Q40A	133-P3B-Q40A	12.0	133-P3B-Q40A-13.0-13.5	13.0 - 13.5 ft	-1.0	-1.5	JB37135-15	JB37135	05/15/2013	remaining	N	Y		1.6	J	S1
Q41A	133-HSS-Q40A-SW-S1	12.0	133-HSS-Q40A-SW-S-7.5-8.0	7.5 - 8.0 ft	4.5	4.0	JB97573-3R	JB97573R	06/22/2015	remaining	N	Y		< 0.23	UJ	S2
Q41A	133-HSS-Q40A-SW-S2	12.0	133-HSS-Q40A-SW-S-9.5-10.0	9.5 - 10.0 ft	2.5	2.0	JB97573-2R	JB97573R	06/22/2015	remaining	N	Y		< 0.28	UJ	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-6.5-7.0	6.5 - 7.0 ft	4.9	4.4	JB75934-4	JB75934	09/08/2014	remaining	N	Y		1.0	RA	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-8.5-9.0	8.5 - 9.0 ft	2.9	2.4	JB75934-5R	JB75934R	09/08/2014	remaining	N	Y		< 0.21	RA	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-10.5-11.0	10.5 - 11.0 ft	0.9	0.4	JB75934-6R	JB75934R	09/08/2014	remaining	N	Y		1.6	RA	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-12.5-13.0	12.5 - 13.0 ft	-1.1	-1.6	JB75934-7	JB75934	09/08/2014	remaining	N	Y		0.36	RA	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-14.0-14.5	14.0 - 14.5 ft	-2.6	-3.1	JB75934-9	JB75934	09/08/2014	remaining	N	Y		< 0.23	RA	S2
Q41A	P4-HAL-Q41A	11.4	P4-HAL-Q41A-14.5-15.0	14.5 - 15.0 ft	-3.1	-3.6	JB75934-8	JB75934	09/08/2014	remaining	N	Y		2.4	RA	S2
R36A	137-P3B-R36A	12.9	137-P3B-R36A-12.3-12.8	12.3 - 12.8 ft	0.6	0.1	JB41846-11	JB41846	07/11/2013	remaining	N	Y		0.50	J	S1, S3
R36A	137-P3B-R36A	12.9	137-P3B-R36A-14.3-14.8	14.3 - 14.8 ft	-1.4	-1.9	JB41846-13R	JB41846R	07/11/2013	remaining	N	Y		0.18	J	S1, S3
R36A	137-P3B-R36A	12.9	137-P3B-R36A-16.3-16.8	16.3 - 16.8 ft	-3.4	-3.9	JB41846-14R	JB41846R	07/11/2013	remaining	N	Y		1.2	J	S1, S3
R36A	137-P3B-R36A	12.9	137-P3B-R36A-16.8-17.3	16.8 - 17.3 ft	-3.9	-4.4	JB41846-12	JB41846	07/11/2013	remaining	N	Y		1.5	J	S1, S3
R36A	137-P3B-R36A	12.9	137-P3B-R36A-17.3-17.8	17.3 - 17.8 ft	-4.4	-4.9	JB41846-15R	JB41846R	07/11/2013	remaining	N	Y		2.1	J	S1, S3
R37A	133-R37A	11.6	133-R37A-16.5-17.0	16.5 - 17.0 ft	-4.9	-5.4	JB93027-2R	JB93027R	04/22/2015	remaining	N	Y		1.7	J	
R37A	133-R37A-PB	11.6	133-R37A-PB-9.9-10.4	9.9 - 10.4 ft	1.7	1.2	JB97954-6R	JB97954R	06/26/2015	remaining	N	Y		0.97	RA	
R37A	P4-HAL-R37A	11.6	P4-HAL-R37A-11.5-12.0	11.5 - 12.0 ft	0.1	-0.4	JB76597-18	JB76597	09/15/2014	remaining	N	Y		6.6	J	
R37A	P4-HAL-R37A	11.6	P4-HAL-R37A-13.5-14.0	13.5 - 14.0 ft	-1.9	-2.4	JB76597-19	JB76597	09/15/2014	remaining	N	Y		< 0.24	UJ	
R37A	P4-HAL-R37A	11.6	P4-HAL-R37A-15.5-16.0	15.5 - 16.0 ft	-3.9	-4.4	JB76597-20T	JB76597T	09/15/2014	remaining	N	Y		0.44	J	
R37A	P4-HAL-R37A	11.6	P4-HAL-R37A-17.0-17.5	17.0 - 17.5 ft	-5.4	-5.9	JB76597-21	JB76597	09/15/2014	remaining	N	Y		< 0.21	UJ	
R37A	P4-HAL-R37A	11.6	P4-HAL-R37A-17.5-18.0	17.5 - 18.0 ft	-5.9	-6.4	JB76597-22	JB76597	09/15/2014	remaining	N	Y		< 0.29	UJ	
R38A	P4-HAL-R38A	11.5	P4-HAL-R38A-10.5-11.0	10.5 - 11.0 ft	1.0	0.5	JB76316-6R	JB76316R	09/11/2014	remaining	N	Y		1.0	J	
R38A	P4-HAL-R38A	11.5	P4-HAL-R38A-12.5-13.0	12.5 - 13.0 ft	-1.0	-1.5	JB76316-7	JB76316	09/11/2014	remaining	N	Y		0.63	J	
R38A	P4-HAL-R38A	11.5	P4-HAL-R38A-14.5-15.0	14.5 - 15.0 ft	-3.0	-3.5	JB76316-8R	JB76316R	09/11/2014	remaining	N	Y		0.41	J	
R38A	P4-HAL-R38A	11.5	P4-HAL-R38A-15.0-15.5	15.0 - 15.5 ft	-3.5	-4.0	JB76316-9	JB76316	09/11/2014	remaining	N	Y		1.5	J	
R38A	P4-HAL-R38A	11.5	P4-HAL-R38A-15.5-16.0	15.5 - 16.0 ft	-4.0	-4.5	JB76316-10	JB76316	09/11/2014	remaining	N	Y		1.5	J	
R39A	P4-HAL-R39A	10.9	P4-HAL-R39A-8.5-9.0	8.5 - 9.0 ft	2.4	1.9	JB76316-17	JB76316	09/11/2014	remaining	N	Y		2.9	J	
R39A	P4-HAL-R39A	10.9	P4-HAL-R39A-10.5-11.0	10.5 - 11.0 ft	0.4	-0.1	JB76316-18	JB76316	09/11/2014	remaining	N	Y		< 0.44	UJ	
R39A	P4-HAL-R39A	10.9	P4-HAL-R39A-12.5-13.0	12.5 - 13.0 ft	-1.6	-2.1	JB76316-19R	JB76316R	09/11/2014	remaining	N	Y		0.89	J	
R39A	P4-HAL-R39A	10.9	P4-HAL-R39A-14.0-14.5	14.0 - 14.5 ft	-3.1	-3.6	JB76316-20	JB76316	09/11/2014	remaining	N	Y		< 0.20	U	
R39A	P4-HAL-R39A	10.9	P4-HAL-R39A-14.5-15.0	14.5 - 15.0 ft	-3.6	-4.1	JB76316-21	JB76316	09/11/2014	remaining	N	Y		< 0.27	U	
R40A	133-B5	11.1	PPG-133-B5D_8.5-9.0_792643	8.5 - 9.0 ft	2.6	2.1	792643	A757	12/12/2006	remaining	N	Y		< 2.33	U	
R40A	133-B5	11.1	PPG-133-B5E_12.0-12.5_792644	12.0 - 12.5 ft	-0.9	-1.4	792644	A757	12/12/2006	remaining	N	Y		< 2.29	U	
R40A	133-B5	11.1	PPG-133-B5F_13.9-14.4_792645	13.9 - 14.4 ft	-2.8	-3.3	792645	A757	12/12/2006	remaining	N	Y		< 5.43	U	
R40A	133-B5	11.1	PPG-133-B5G_18.0-18.5_792646	18.0 - 18.5 ft	-6.9	-7.4	792646	A757	12/12/2006	remaining	N	Y		< 3.43	U	
R40A	133-B5	11.1	PPG-133-B5H_22.5-23.0_792647	22.5 - 23.0 ft	-11.4	-11.9	792647	A757	12/12/2006	remaining	N	Y		< 2.39	U	
R40A	133-HSS-Q40A-SW-E2	12.0	133-HSS-Q40A-SW-E-9.5-10.0	9.5 - 10.0 ft	2.5	2.0	JB97573-4R	JB97573R	06/22/2015	remaining	N	Y		< 0.28	UJ	
R40A	133-P3C-R40AR	11.3	133-P3C-R40AR-10.5-11.0	10.5 - 11.0 ft	0.8	0.3	JB82495-3	JB82495	11/21/2014	remaining	N	Y		0.48	J	
R40A	133-R40A-PB	11.3	133-HSS-R40A-PB-7.0-7.5	7.0 - 7.5 ft	4.3	3.8	JB97653-2R	JB97653R	06/23/2015	remaining	N	Y		0.64	RA	

Table 5-1
Cr⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criteria
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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	CHROMIUM (HEXAVALENT)	Specific Notes	
														CAS RN Units CrSCC	18540-29-9 mg/kg 20		Result (G18, G19)
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-6.5-7.0	6.5 - 7.0 ft	5.2	4.7	JB76177-4R	JB76177R	09/10/2014	removed	N	Y			0.52	J	S4, S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-8.5-9.0	8.5 - 9.0 ft	3.2	2.7	JB76177-5R	JB76177R	09/10/2014	remaining	N	Y			1.2	J	S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-10.5-11.0	10.5 - 11.0 ft	1.2	0.7	JB76177-6R	JB76177R	09/10/2014	remaining	N	Y			0.65	J	S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-12.5-13.0	12.5 - 13.0 ft	-0.8	-1.3	JB76177-7R	JB76177R	09/10/2014	remaining	N	Y			0.31	J	S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-14.5-15.0	14.5 - 15.0 ft	-2.8	-3.3	JB76177-8R	JB76177R	09/10/2014	remaining	N	Y			0.61	J	S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-15.0-15.5	15.0 - 15.5 ft	-3.3	-3.8	JB76177-9	JB76177	09/10/2014	remaining	N	Y			< 0.20	UJ	S5, S6
R41A	P4-HAL-R41A	11.7	P4-HAL-R41-15.5-16.0	15.5 - 16.0 ft	-3.8	-4.3	JB76177-10	JB76177	09/10/2014	remaining	N	Y			3.0	J	S5, S6
S34A	133-HSS-S34A-PB	12.8	133-HSS-S34A-PB-17.0-17.5	17.0 - 17.5 ft	-4.2	-4.7	JB99274-3R	JB99274R	07/16/2015	remaining	N	Y			0.66	J	S7
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-17.5-18.0	17.5 - 18.0 ft	-4.7	-5.2	JB77632-8	JB77632	09/25/2014	remaining	N	Y			0.44	J	
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-19.5-20.0	19.5 - 20.0 ft	-6.7	-7.2	JB77632-9	JB77632	09/25/2014	remaining	N	Y			0.34	J	
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-20.0-20.5	20.0 - 20.5 ft	-7.2	-7.7	JB77632-10	JB77632	09/25/2014	remaining	N	Y			< 0.37	UJ	
S35A	133-HSS-S35A-PB2	12.2	133-HSS-S35A-PB-15.1-15.6	15.1 - 15.6 ft	-2.9	-3.4	JC1208-2	JC1208	08/11/2015	removed	N	Y			0.37	J	S8
S35A	137-B13	13.0	137B13J_17.5-17.9_801485	17.5 - 17.9 ft	-4.5	-4.9	801485	C140	01/22/2007	remaining	N	Y			< 3.48	UJ	
S35A	137-B13	13.0	137B13K_19.1-19.4_801486	19.1 - 19.4 ft	-6.1	-6.4	801486	C140	01/22/2007	remaining	N	Y			< 4.19	UJ	
S35A	137-B13	13.0	137B13L_21.9-22.4_801487	21.9 - 22.4 ft	-8.9	-9.4	801487	C140	01/22/2007	remaining	N	Y			< 13.25	UJ	
S35A	137-B13	13.0	137B13M_23.2-23.6_801488	23.2 - 23.6 ft	-10.2	-10.6	801488	C140	01/22/2007	remaining	N	Y			< 2.67	UJ	
S35A	137-B13	13.0	137B13N_25.6-26.0_801489	25.6 - 26.0 ft	-12.6	-13.0	801489	C140	01/22/2007	remaining	N	Y			< 2.49	UJ	
S35A	137-B13	13.0	137B13O_28.7-28.9_801490	28.7 - 28.9 ft	-15.7	-15.9	801490	C140	01/22/2007	remaining	N	Y			< 2.34	UJ	
S36A	133-HSS-S36A-PB	12.2	133-HSS-S36A-PB-16.5-17.0	16.5 - 17.0 ft	-4.3	-4.8	JB98788-2	JB98788	07/09/2015	remaining	N	Y			0.44	RA	
S36A	133-HSS-S36A-SW-E3	12.2	133-HSS-S36A-SW-E-16.0-16.5	16.0 - 16.5 ft	-3.8	-4.3	JB98788-3	JB98788	07/09/2015	remaining	N	Y			1.0	RA	
S36A	133-HSS-S36A-SW-S3	12.2	133-HSS-S36A-SW-S-16.0-16.5	16.0 - 16.5 ft	-3.8	-4.3	JB98788-6	JB98788	07/09/2015	remaining	N	Y			0.39	RA	S3
S36A	P4-HAL-S36A	12.2	P4-HAL-S36A-16.5-17.0	16.5 - 17.0 ft	-4.3	-4.8	JB76729-10	JB76729	09/16/2014	remaining	N	Y			1.4	J	
S36A	P4-HAL-S36A	12.2	P4-HAL-S36A-17.0-17.5	17.0 - 17.5 ft	-4.8	-5.3	JB76729-11	JB76729	09/16/2014	remaining	N	Y			0.40	J	
S36A	P4-HAL-S36A	12.2	P4-HAL-S36A-17.5-18.0	17.5 - 18.0 ft	-5.3	-5.8	JB76729-12R	JB76729R	09/16/2014	remaining	N	Y			2.6	J	
S37A	133-HSS-S36A-SW-S1	12.2	133-HSS-S36A-SW-S-12.0-12.5	12.0 - 12.5 ft	0.2	-0.3	JB98788-8	JB98788	07/09/2015	remaining	N	Y			< 0.27	RA	S3
S37A	133-HSS-S36A-SW-S2	12.2	133-HSS-S36A-SW-S-14.0-14.5	14.0 - 14.5 ft	-1.8	-2.3	JB98788-7	JB98788	07/09/2015	remaining	N	Y			2.4	RA	S3
S37A	133-HSS-S37A-PB	12.0	133-HSS-S37A-PB-11.2-11.7	11.2 - 11.7 ft	0.8	0.3	JB98637-3	JB98637	07/08/2015	remaining	N	Y			0.59	J	
S37A	P4-HAL-S37A	12.0	P4-HAL-S37A-12.0-12.5	12.0 - 12.5 ft	0.0	-0.5	JB76729-17	JB76729	09/16/2014	remaining	N	Y			0.76	J	
S37A	P4-HAL-S37A	12.0	P4-HAL-S37A-14.0-14.5	14.0 - 14.5 ft	-2.0	-2.5	JB76729-18	JB76729	09/16/2014	remaining	N	Y			< 0.25	UJ	
S37A	P4-HAL-S37A	12.0	P4-HAL-S37A-16.0-16.5	16.0 - 16.5 ft	-4.0	-4.5	JB76729-19	JB76729	09/16/2014	remaining	N	Y			0.39	J	
S37A	P4-HAL-S37A	12.0	P4-HAL-S37A-16.5-17.0	16.5 - 17.0 ft	-4.5	-5.0	JB76729-20	JB76729	09/16/2014	remaining	N	Y			0.43	J	
S37A	P4-HAL-S37A	12.0	P4-HAL-S37A-17.0-17.5	17.0 - 17.5 ft	-5.0	-5.5	JB76729-21R	JB76729R	09/16/2014	remaining	N	Y			0.70	J	
S38A	133-S38A-SW-S	12.1	133-S38A-SW-S-9.6-10.1	10.6 - 11.1 ft	1.5	1.0	JB98468-3R	JB98468R	07/06/2015	remaining	N	Y			0.58	J	S6, S9
S38A	133-S38A-SW-S	12.1	133-S38A-SW-S-9.6-10.1X	10.6 - 11.1 ft	1.5	1.0	JB98468-4	JB98468	07/06/2015	remaining	FD	Y			< 0.24	UJ	S6, S9
S38A	P4-HAL-S38A	12.1	P4-HAL-S38A-11.5-12.0	11.5 - 12.0 ft	0.6	0.1	JB76853-5	JB76853	09/17/2014	remaining	N	Y			0.64	J	S6
S38A	P4-HAL-S38A	12.1	P4-HAL-S38A-13.5-14.0	13.5 - 14.0 ft	-1.4	-1.9	JB76853-7R	JB76853R	09/17/2014	remaining	N	Y			0.53	J	S6
S38A	P4-HAL-S38A	12.1	P4-HAL-S38A-14.0-14.5	14.0 - 14.5 ft	-1.9	-2.4	JB76853-6R	JB76853R	09/17/2014	remaining	N	Y			1.4	J	S6
S39A	133-S39A-PB	11.0	133-HSS-S39A-PB-8.5-9.0	8.5 - 9.0 ft	2.5	2.0	JB97954-2R	JB97954R	06/26/2015	remaining	N	Y			0.48	RA	S6
S39A	P4-HAL-S39A	11.0	P4-HAL-S39A-10.5-11.0	10.5 - 11.0 ft	0.5	0.0	JB78630-6R	JB78630R	10/07/2014	remaining	N	Y			2.8	J	S6
S39A	P4-HAL-S39A	11.0	P4-HAL-S39A-12.5-13.0	12.5 - 13.0 ft	-1.5	-2.0	JB78630-7	JB78630	10/07/2014	remaining	N	Y			< 0.20	UJ	S6
S39A	P4-HAL-S39A	11.0	P4-HAL-S39A-13.0-13.5	13.0 - 13.5 ft	-2.0	-2.5	JB78630-8R	JB78630R	10/07/2014	remaining	N	Y			0.33	J	S6
S39A	P4-HAL-S39A	11.0	P4-HAL-S39A-13.5-14.0	13.5 - 14.0 ft	-2.5	-3.0	JB78630-9R	JB78630R	10/07/2014	remaining	N	Y			1.1	J	S6
S40A	133-P3C-S40A	11.4	133-P3C-S40A-7.0-7.5	7.0 - 7.5 ft	4.4	3.9	JB42537-2R	JB42537R	07/18/2013	removed	N	Y			0.36	J	S6, S10
S40A	133-P3C-S40A	11.4	133-P3C-S40A-9.0-9.5	9.0 - 9.5 ft	2.4	1.9	JB42537-3R	JB42537R	07/18/2013	remaining	N	Y			0.37	J	S6
S40A	133-P3C-S40A	11.4	133-P3C-S40A-11.0-11.5	11.0 - 11.5 ft	0.4	-0.1	JB42537-4R	JB42537R	07/18/2013	remaining	N	Y			0.30	J	S6
S40A	133-P3C-S40A	11.4	133-P3C-S40A-11.0-11.5X	11.0 - 11.5 ft	0.4	-0.1	JB42537-5R	JB42537R	07/18/2013	remaining	FD	Y			0.26	J	S6
S40A	133-P3C-S40A	11.4	133-P3C-S40A-13.0-13.5	13.0 - 13.5 ft	-1.6	-2.1	JB42537-6R	JB42537R	07/18/2013	remaining	N	Y			0.55	J	S6
S40A	133-P3C-S40A	11.4	133-P3C-S40A-13.5-14.0	13.5 - 14.0 ft	-2.1	-2.6	JB42537-7R	JB42537R	07/18/2013	remaining	N	Y			0.29	J	S6

Table 5-1
Cr⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criteria
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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	CHROMIUM (HEXAVALENT)	Specific Notes	
														CAS RN Units CrSCC	18540-29-9 mg/kg 20		Result (G18, G19)
S40A	133-P3C-S40A	11.4	133-P3C-S40A-14.0-14.5	14.0 - 14.5 ft	-2.6	-3.1	JB42537-8R	JB42537R	07/18/2013	remaining	N	Y			3.0	J	S6
S40A	133-S40A	11.4	133-S40A-15.2-15.7	15.2 - 15.7 ft	-3.8	-4.3	JB93027-3	JB93027	04/22/2015	remaining	N	Y			< 0.33	UJ	S6
S41A	133-P3C-S41A	11.1	133-P3C-S41A-8.0-8.5	8.0 - 8.5 ft	3.1	2.6	JB40574-5	JB40574	06/25/2013	remaining	N	Y			0.45	RA	S6
S41A	133-P3C-S41A	11.1	133-P3C-S41A-10.0-10.5	10.0 - 10.5 ft	1.1	0.6	JB40574-6	JB40574	06/25/2013	remaining	N	Y			< 0.084	RA	S6
S41A	133-P3C-S41A	11.1	133-P3C-S41A-12.0-12.5	12.0 - 12.5 ft	-0.9	-1.4	JB40574-7	JB40574	06/25/2013	remaining	N	Y			< 0.087	RA	S6
S41A	133-P3C-S41A	11.1	133-P3C-S41A-14.0-14.5	14.0 - 14.5 ft	-2.9	-3.4	JB40574-8	JB40574	06/25/2013	remaining	N	Y			< 0.11	RA	S6
S41A	133-P3C-S41A	11.1	133-P3C-S41A-14.5-15.0	14.5 - 15.0 ft	-3.4	-3.9	JB40574-9	JB40574	06/25/2013	remaining	N	Y			0.89	RA	S6
S41A	133-S41A-PB	11.1	133-S41A-PB-7.5-8.0	7.5 - 8.0 ft	3.6	3.1	JB95633-1R	JB95633R	05/28/2015	remaining	N	Y			< 0.20	RA	S6
T31A	133-HSS-T31A-PB	12.8	133-HSS-T31A-PB-14.5-15.0	14.5 - 15.0 ft	-1.7	-2.2	JC1755-2	JC1755	08/18/2015	remaining	N	Y			0.46	J	
T31A	P4-HAL-T31A	12.8	P4-HAL-T31A-16.0-16.5	16.0 - 16.5 ft	-3.2	-3.7	JB78460-7	JB78460	10/06/2014	remaining	N	Y			3.0	J	
T31A	P4-HAL-T31A	12.8	P4-HAL-T31A-18.0-18.5	18.0 - 18.5 ft	-5.2	-5.7	JB78460-8R	JB78460R	10/06/2014	remaining	N	Y			0.85	J	
T31A	P4-HAL-T31A	12.8	P4-HAL-T31A-18.5-19.0	18.5 - 19.0 ft	-5.7	-6.2	JB78460-9	JB78460	10/06/2014	remaining	N	Y			0.71	J	
T32A	133-HSS-T32A-PB	12.7	133-HSS-T32A-PB-15.3-15.8	15.3 - 15.8 ft	-2.6	-3.1	JB99722-3	JB99722	07/22/2015	remaining	N	Y			< 0.31	RA	S11
T32A	133-HSS-T32A-PB	12.7	133-HSS-T32A-18.0-18.5	18.0 - 18.5 ft	-5.3	-5.8	JB99722-4	JB99722	07/22/2015	remaining	N	Y			< 0.32	RA	S11
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-15.0-15.5	15.0 - 15.5 ft	-2.7	-3.2	JB78082-9T	JB78082T	10/01/2014	removed	N	Y			1.6	J	S12
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-17.0-17.5	17.0 - 17.5 ft	-4.7	-5.2	JB78082-10T	JB78082T	10/01/2014	remaining	N	Y			0.59	J	
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-17.5-18.0	17.5 - 18.0 ft	-5.2	-5.7	JB78082-12T	JB78082T	10/01/2014	remaining	N	Y			0.42	J	
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-18.0-18.5	18.0 - 18.5 ft	-5.7	-6.2	JB78082-11T	JB78082T	10/01/2014	remaining	N	Y			1.7	J	
T34A	133-B3	12.0	PPG-133-B3E_16.0-16.5	16.0 - 16.5 ft	-4.0	-4.5	792174	A686	12/11/2006	remaining	N	Y			2.8	RA	
T34A	133-B3	12.0	PPG-133-B3F_17.0-17.5	17.0 - 17.5 ft	-5.0	-5.5	792175	A686	12/11/2006	remaining	N	Y			< 3.42	RA	
T34A	133-B3	12.0	PPG-133-B3G_24.0-24.5	24.0 - 24.5 ft	-12.0	-12.5	792176	A686	12/11/2006	remaining	N	Y			< 2.76	UJ	
T34A	133-HSS-T34A-PB	12.1	133-HSS-T34A-PB-14.4-14.9	14.4 - 14.9 ft	-2.3	-2.8	JB99504-2R	JB99504R	07/20/2015	remaining	N	Y			1.5	RA	
T34A	133-P3C-T34A	12.5	133-P3C-T34A-17.5-18.0	17.5 - 18.0 ft	-5.0	-5.5	JB97865-1R	JB97865R	06/24/2015	remaining	N	Y			< 0.23	UJ	
T34A	133-P3C-T34A	12.5	133-P3C-T34A-18.0-18.5	18.0 - 18.5 ft	-5.5	-6.0	JB97865-2	JB97865	06/24/2015	remaining	N	Y			4.2	J	
T34A	133-P3C-T34A	12.5	133-P3C-T34A-18.5-19.0	18.5 - 19.0 ft	-6.0	-6.5	JB97865-3	JB97865	06/24/2015	remaining	N	Y			3.9	J	
T35A	133-HSS-T35A-PB	12.2	133-HSS-T35A-PB-14.0-14.5	14.0 - 14.5 ft	-1.8	-2.3	JB99274-2	JB99274	07/16/2015	remaining	N	Y			< 0.32	UJ	
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-35.5-36.0	35.5 - 36.0 ft	-26.3	-26.8	JC13952-1	JC13952	01/25/2016	remaining	N	Y			< 0.23	U	
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-40.0-40.5	40.0 - 40.5 ft	-30.8	-31.3	JC13952-2	JC13952	01/25/2016	remaining	N	Y			< 0.23	U	
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-45.5-46.0	45.5 - 46.0 ft	-36.3	-36.8	JC13952-3	JC13952	01/25/2016	remaining	N	Y			< 0.23	U	
T35A	133-U35A-SW-W1	12.8	133-U35A-SW-W-14.8-15.3	14.8 - 15.3 ft	-2.0	-2.5	JB99601-4	JB99601	07/21/2015	remaining	N	Y			0.66	J	
T35A	P4-HAL-T35A	12.2	P4-HAL-T35A-15.0-15.5	15.0 - 15.5 ft	-2.8	-3.3	JB78460-18R	JB78460R	10/06/2014	remaining	N	Y			8.3	J	
T35A	P4-HAL-T35A	12.2	P4-HAL-T35A-17.0-17.5	17.0 - 17.5 ft	-4.8	-5.3	JB78460-19	JB78460	10/06/2014	remaining	N	Y			< 0.20	UJ	
T35A	P4-HAL-T35A	12.2	P4-HAL-T35A-17.5-18.0	17.5 - 18.0 ft	-5.3	-5.8	JB78460-20	JB78460	10/06/2014	remaining	N	Y			1.4	J	
T36A	133-HSS-S36A-SW-E1	12.2	133-HSS-S36A-SW-E-12.0-12.5	12.0 - 12.5 ft	0.2	-0.3	JB98788-5	JB98788	07/09/2015	removed	N	Y			0.32	RA	S6, S13
T36A	133-HSS-S36A-SW-E2	12.2	133-HSS-S36A-SW-E-14.0-14.5	14.0 - 14.5 ft	-1.8	-2.3	JB98788-4	JB98788	07/09/2015	remaining	N	Y			< 0.30	RA	S6
T36A	133-HSS-T35A-SW-S1	12.2	133-HSS-T35A-SW-S-11.5-12.0	11.5 - 12.0 ft	0.7	0.2	JB99274-5	JB99274	07/16/2015	remaining	N	Y			8.0	J	S6
T36A	133-HSS-T35A-SW-S2	12.2	133-HSS-T35A-SW-S-13.5-14.0	13.5 - 14.0 ft	-1.3	-1.8	JB99274-4R	JB99274R	07/16/2015	remaining	N	Y			4.1	J	S6
T36A	133-HSS-T36A-PB	11.5	133-HSS-T36A-PB-9.9-10.4	9.9 - 10.4 ft	1.6	1.1	JB98897-3	JB98897	07/10/2015	removed	N	Y			1.0	J	S6, S13
T36A	133-HSS-U36A-SW-W1	12.6	133-HSS-U36A-SW-W-11.5-12.0	11.5 - 12.0 ft	1.1	0.6	JB99274-7	JB99274	07/16/2015	remaining	N	Y			< 0.28	UJ	S6
T36A	133-HSS-U36A-SW-W2	12.6	133-HSS-U36A-SW-W-13.5-14.0	13.5 - 14.0 ft	-0.9	-1.4	JB99274-6	JB99274	07/16/2015	remaining	N	Y			< 0.27	UJ	S6
T36A	133-HSS-U36A-SW-W3	12.6	133-HSS-U36A-SW-W-15.5-16.0	15.5 - 16.0 ft	-2.9	-3.4	JB99274-8	JB99274	07/16/2015	remaining	N	Y			< 0.33	UJ	S6
T36A	P4-HAL-T36A	11.5	P4-HAL-T36A-13.0-13.5	13.0 - 13.5 ft	-1.5	-2.0	JB78630-17R	JB78630R	10/07/2014	remaining	N	Y			0.35	J	S6
T36A	P4-HAL-T36A	11.5	P4-HAL-T36A-15.0-15.5	15.0 - 15.5 ft	-3.5	-4.0	JB78630-18	JB78630	10/07/2014	remaining	N	Y			< 0.21	UJ	S6
T36A	P4-HAL-T36A	11.5	P4-HAL-T36A-17.0-17.5	17.0 - 17.5 ft	-5.5	-6.0	JB78630-19R	JB78630R	10/07/2014	remaining	N	Y			0.21	J	S6
T36A	P4-HAL-T36A	11.5	P4-HAL-T36A-17.5-18.0	17.5 - 18.0 ft	-6.0	-6.5	JB78630-20R	JB78630R	10/07/2014	remaining	N	Y			0.79	J	S6
T37A	133-B4	11.5	PPG-133-B4F_12.5-13.0_792635	12.5 - 13.0 ft	-1.0	-1.5	792635	A757	12/12/2006	remaining	N	Y			< 2.78	U	S6
T37A	133-B4	11.5	PPG-133-B4FD_12.5-13.0_792636	12.5 - 13.0 ft	-1.0	-1.5	792636	A757	12/12/2006	remaining	FD	Y			< 2.73	U	S6
T37A	133-B4	11.5	PPG-133-B4G_14.3-14.8_792637	14.3 - 14.8 ft	-2.8	-3.3	792637	A757	12/12/2006	remaining	N	Y			< 3.41	U	S6

Table 5-1
Cr⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criteria
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
T37A	133-B4	11.5	PPG-133-B4H_18.3-18.8_792638	18.3 - 18.8 ft	-6.8	-7.3	792638	A757	12/12/2006	remaining	N	Y		< 5	U	S6
T37A	133-B4	11.5	PPG-133-B4I_21.8-22.3_792639	21.8 - 22.3 ft	-10.3	-10.8	792639	A757	12/12/2006	remaining	N	Y		< 2.42	U	S6
T37A	133-HSS-T37A-PB	11.6	133-HSS-T37A-PB-9.6-10.1	9.6 - 10.1 ft	2.0	1.5	JB98637-2	JB98637	07/08/2015	remaining	N	Y		< 0.24	UJ	S6
T37A	133-P3C-T37A	11.6	133-P3C-T37A-10.0-10.5	10.0 - 10.5 ft	1.6	1.1	JB40576-2R	JB40576R	06/25/2013	remaining	N	Y		1.3	J	S6
T37A	133-P3C-T37A	11.6	133-P3C-T37A-12.0-12.5	12.0 - 12.5 ft	-0.4	-0.9	JB40576-3R	JB40576R	06/25/2013	remaining	N	Y		0.15	J	S6
T37A	133-P3C-T37A	11.6	133-P3C-T37A-13.7-14.2	13.7 - 14.2 ft	-2.1	-2.6	JB40576-4R	JB40576R	06/25/2013	remaining	N	Y		2.1	J	S6
T37A	133-P3C-T37A	11.6	133-P3C-T37A-14.2-14.7	14.2 - 14.7 ft	-2.6	-3.1	JB40576-5	JB40576	06/25/2013	remaining	N	Y		< 0.10	UJ	S6
T37A	133-U37A-SW-W1	12.6	133-U37A-SW-W-11.0-11.5	11.0 - 11.5 ft	1.6	1.1	JB98637-6R	JB98637R	07/08/2015	remaining	N	Y		0.46	J	S6
T37A	133-U37A-SW-W2	12.6	133-U37A-SW-W-13.0-13.5	13.0 - 13.5 ft	-0.4	-0.9	JB98637-5	JB98637	07/08/2015	remaining	N	Y		< 0.22	UJ	S6
T37A	133-U37A-SW-W3	12.6	133-U37A-SW-W-15.0-15.5	15.0 - 15.5 ft	-2.4	-2.9	JB98637-4	JB98637	07/08/2015	remaining	N	Y		< 0.25	UJ	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-12.0-12.5	12.0 - 12.5 ft	0.8	0.3	JB82214-7R	JB82214R	11/19/2014	remaining	N	Y		1.1	J	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-12.0-12.5X	12.0 - 12.5 ft	0.8	0.3	JB82214-12R	JB82214R	11/19/2014	remaining	FD	Y		2.0	J	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-14.0-14.5	14.0 - 14.5 ft	-1.2	-1.7	JB82214-8R	JB82214R	11/19/2014	remaining	N	Y		< 0.20	UJ	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-16.0-16.5	16.0 - 16.5 ft	-3.2	-3.7	JB82214-9R	JB82214R	11/19/2014	remaining	N	Y		0.22	J	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-16.5-17.0	16.5 - 17.0 ft	-3.7	-4.2	JB82214-10R	JB82214R	11/19/2014	remaining	N	Y		< 0.22	UJ	S6
T38A	133-P3C-T38A	12.8	133-P3C-T38A-17.0-17.5	17.0 - 17.5 ft	-4.2	-4.7	JB82214-11R	JB82214R	11/19/2014	remaining	N	Y		0.42	J	S6
T38A	133-T38A-PB	12.8	133-T38A-PB-10.7-11.2	10.7 - 11.2 ft	2.1	1.6	JB98320-8R	JB98320R	07/01/2015	remaining	N	Y		0.37	J	S6
U27A	137-P3B-U27A	11.8	137-P3B-U27A-14.5-15.0	14.5 - 15.0 ft	-2.7	-3.2	JB41679-10	JB41679	07/10/2013	removed	N	Y		5.4	RA	S14, S15
U28A	133-HSS-U28A-PB	12.1	133-HSS-U28A-PB-15.1-15.6	15.1 - 15.6 ft	-3.0	-3.5	JC946-21	JC946	08/06/2015	remaining	N	Y		0.58	J	
U29A	133-HSS-U29A-PB	12.9	133-HSS-U29A-PB-15.0-15.5	15.0 - 15.5 ft	-2.1	-2.6	JC742-1R	JC742R	08/04/2015	remaining	N	Y		0.29	J	
U29A	P4-HAL-U29A	12.9	P4-HAL-U29A-16.5-17.0	16.5 - 17.0 ft	-3.6	-4.1	JB77943-5R	JB77943R	09/30/2014	remaining	N	Y		< 0.20	U	
U29A	P4-HAL-U29A	12.9	P4-HAL-U29A-17.0-17.5	17.0 - 17.5 ft	-4.1	-4.6	JB77943-6	JB77943	09/30/2014	remaining	N	Y		0.98	J	
U30A	133-HSS-U30A-PB	12.5	133-HSS-U30A-PB-15.7-16.2	15.7 - 16.2 ft	-3.2	-3.7	JC628-4	JC628	08/03/2015	remaining	N	Y		1.2	J	S16
U30A	133-U30A-SW-E2	12.5	133-U30A-SW-E-15.2-15.7	15.2 - 15.7 ft	-2.7	-3.2	JC2160-2	JC2160	08/21/2015	remaining	N	Y		< 0.26	UJ	
U30A	P4-HAL-U30A	12.5	P4-HAL-U30A-16.5-17.0	16.5 - 17.0 ft	-4.0	-4.5	JB77943-16R	JB77943R	09/30/2014	remaining	N	Y		1.0		
U30A	P4-HAL-U30A	12.5	P4-HAL-U30A-17.0-17.5	17.0 - 17.5 ft	-4.5	-5.0	JB77943-17	JB77943	09/30/2014	remaining	N	Y		1.6	J	
U31A	133-HSS-U31A-PB	12.5	133-HSS-U31A-PB-13.8-14.3	13.8 - 14.3 ft	-1.3	-1.8	JC406-9	JC406	07/30/2015	remaining	N	Y		0.29	J	
U31A	P4-HAL-U31A	12.5	P4-HAL-U31A-15.0-15.5	15.0 - 15.5 ft	-2.5	-3.0	JB78382-6	JB78382	10/03/2014	remaining	N	Y		0.82	J	
U31A	P4-HAL-U31A	12.5	P4-HAL-U31A-15.5-16.0	15.5 - 16.0 ft	-3.0	-3.5	JB78382-7	JB78382	10/03/2014	remaining	N	Y		0.98	J	
U32A	P4-HAL-U32A	12.7	P4-HAL-U32A-14.5-15.0	14.5 - 15.0 ft	-1.8	-2.3	JB78082-20	JB78082	10/01/2014	removed	N	Y		< 0.27	UJ	S17
U32A	P4-HAL-U32A	12.7	P4-HAL-U32A-16.5-17.0	16.5 - 17.0 ft	-3.8	-4.3	JB78082-21	JB78082	10/01/2014	remaining	N	Y		3.2	J	
U32A	P4-HAL-U32A	12.7	P4-HAL-U32A-16.5-17.0X	16.5 - 17.0 ft	-3.8	-4.3	JB78082-24	JB78082	10/01/2014	remaining	FD	Y		< 0.21	UJ	
U32A	P4-HAL-U32A	12.7	P4-HAL-U32A-17.5-18.0	17.5 - 18.0 ft	-4.8	-5.3	JB78082-22	JB78082	10/01/2014	remaining	N	Y		< 0.19	UJ	
U32A	P4-HAL-U32A	12.7	P4-HAL-U32A-18.0-18.5	18.0 - 18.5 ft	-5.3	-5.8	JB78082-23	JB78082	10/01/2014	remaining	N	Y		1.0	J	
U33A	133-U33A-PB	12.2	133-U33A-PB-14.0-14.5	14.0 - 14.5 ft	-1.8	-2.3	JB99806-4	JB99806	07/23/2015	remaining	N	Y		0.40	J	S6
U33A	P4-HAL-U33A	12.2	P4-HAL-U33A-15.0-15.5	15.0 - 15.5 ft	-2.8	-3.3	JB77885-9	JB77885	09/29/2014	remaining	N	Y		1.2	J	S6
U33A	P4-HAL-U33A	12.2	P4-HAL-U33A-16.5-17.0	16.5 - 17.0 ft	-4.3	-4.8	JB77885-10	JB77885	09/29/2014	remaining	N	Y		0.71	J	S6
U33A	P4-HAL-U33A	12.2	P4-HAL-U33A-17.0-17.5	17.0 - 17.5 ft	-4.8	-5.3	JB77885-11R	JB77885R	09/29/2014	remaining	N	Y		1.8	J	S6
U34A	133-P3C-U34A	12.6	133-P3C-U34A-16.5-17.0	16.5 - 17.0 ft	-3.9	-4.4	JB40712-3R	JB40712R	06/26/2013	remaining	N	Y		0.30	RA	S6
U34A	133-P3C-U34A	12.6	133-P3C-U34A-17.0-17.5	17.0 - 17.5 ft	-4.4	-4.9	JB40712-2	JB40712	06/26/2013	remaining	N	Y		0.73	RA	S6
U34A	133-P3C-U34A	12.6	133-P3C-U34A-17.5-18.0	17.5 - 18.0 ft	-4.9	-5.4	JB40712-1R	JB40712R	06/26/2013	remaining	N	Y		8.6	RA	S6
U34A	133-U34A-PB	12.6	133-U34A-PB-16.3-16.8	16.3 - 16.8 ft	-3.7	-4.2	JB99806-2	JB99806	07/23/2015	remaining	N	Y		< 0.28	UJ	S6
U35A	133-U35A-PB	12.8	133-U35A-PB-17.3-17.8	17.3 - 17.8 ft	-4.5	-5.0	JB99601-2R	JB99601R	07/21/2015	remaining	N	Y		1.6	J	S6
U35A	133-U35A-SW-W2	12.8	133-U35A-SW-W-16.8-17.3	16.8 - 17.3 ft	-4.0	-4.5	JB99601-3	JB99601	07/21/2015	remaining	N	Y		< 0.22	UJ	S6
U35A	EF-23	12.7	EF-B23-20.0	20.0 - 20.5 ft	-7.3	-7.8	460-26239-17	460262391	05/06/2011	remaining	N	Y		< 1.0	UJ	S6
V25A	137-V25A-PB	13.2	137-V25A-PB-18.0-18.5	18.0 - 18.5 ft	-4.8	-5.3	JB90734-4	JB90734	03/24/2015	remaining	N	Y		0.51	RA	S14
V26A	133-V26A-PB	12.3	133-V26A-PB15.1-15.6	15.1 - 15.6 ft	-2.8	-3.3	JC1474-4R	JC1474R	08/13/2015	remaining	N	Y		0.78	J	
V26A	P4-HAL-V26AR	12.1	P4-HAL-V26A-15.5-16.0R	15.5 - 16.0 ft	-3.4	-3.9	JB79531-4	JB79531	10/17/2014	remaining	N	Y		0.77	J	

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

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
V27A	P4-HAL-V27A	12.0	P4-HAL-V27A-14.0-14.5	14.0 - 14.5 ft	-2.0	-2.5	JB77552-13R	JB77552R	09/24/2014	removed	N	Y		2.9	J	S18
V27A	P4-HAL-V27A	12.0	P4-HAL-V27A-15.0-15.5	15.0 - 15.5 ft	-3.0	-3.5	JB77552-14	JB77552	09/24/2014	remaining	N	Y		10.5	J	
V27A	P4-HAL-V27A	12.0	P4-HAL-V27A-15.5-16.0	15.5 - 16.0 ft	-3.5	-4.0	JB77552-15	JB77552	09/24/2014	remaining	N	Y		1.3	J	S15
V28A	133-HSS-V28A-PB	12.6	133-HSS-V28A-PB-15.1-15.6	15.1 - 15.6 ft	-2.5	-3.0	JC946-20	JC946	08/06/2015	remaining	N	Y	MM (PT)	2.9	J	S19
V28A	P4-HAL-V28A	12.6	P4-HAL-V28A-15.0-15.5	15.0 - 15.5 ft	-2.4	-2.9	JB77768-5R	JB77768R	09/26/2014	removed	N	Y	FILL (FILL)	94.8	J	S19
V28A	P4-HAL-V28A	12.6	P4-HAL-V28A-15.5-16.0	15.5 - 16.0 ft	-2.9	-3.4	JB77768-6	JB77768	09/26/2014	remaining	N	Y		2.6	J	
V29A	P4-HAL-V29A	12.6	P4-HAL-V29A-14.0-14.5	14.0 - 14.5 ft	-1.4	-1.9	JB77768-12	JB77768	09/26/2014	remaining	N	Y		0.68	J	
V29A	P4-HAL-V29A	12.6	P4-HAL-V29A-16.0-16.5	16.0 - 16.5 ft	-3.4	-3.9	JB77768-13	JB77768	09/26/2014	remaining	N	Y		0.93	J	
V29A	P4-HAL-V29A	12.6	P4-HAL-V29A-16.5-17.0	16.5 - 17.0 ft	-3.9	-4.4	JB77768-14R	JB77768R	09/26/2014	remaining	N	Y		1.5	J	
V30A	133-U30A-SW-E1	12.5	133-U30A-SW-E-13.2-13.7	13.2 - 13.7 ft	-0.7	-1.2	JC2160-3R	JC2160R	08/21/2015	remaining	N	Y		0.30	J	S6
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-13.0-13.5	13.0 - 13.5 ft	-0.5	-1.0	JB78753-5	JB78753	10/08/2014	remaining	N	Y		2.6	J	S6
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-15.0-15.5	15.0 - 15.5 ft	-2.5	-3.0	JB78753-6R	JB78753R	10/08/2014	remaining	N	Y		0.54	J	S6
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.0-17.5	17.0 - 17.5 ft	-4.5	-5.0	JB78753-7	JB78753	10/08/2014	remaining	N	Y		2.1	J	S6
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.0-17.5X	17.0 - 17.5 ft	-4.5	-5.0	JB78753-9	JB78753	10/08/2014	remaining	FD	Y		1.6	J	S6
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.5-18.0	17.5 - 18.0 ft	-5.0	-5.5	JB78753-8	JB78753	10/08/2014	remaining	N	Y		2.1	J	S6
V31A	133-HSS-V31A-PB2	12.3	133-HSS-V31A-PB-14.1-14.6	14.1 - 14.6 ft	-1.8	-2.3	JC2393-3	JC2393	08/26/2015	remaining	N	Y		< 0.26	UJ	S6
V31A	P4-HAL-V31A	12.3	P4-HAL-V31A-15.0-15.5	15.0 - 15.5 ft	-2.7	-3.2	JB78382-16R	JB78382R	10/03/2014	remaining	N	Y		0.30	J	S6
V31A	P4-HAL-V31A	12.3	P4-HAL-V31A-15.5-16.0	15.5 - 16.0 ft	-3.2	-3.7	JB78382-17R	JB78382R	10/03/2014	remaining	N	Y		0.69	J	S6
V31A	P4-HAL-V31A	12.3	P4-HAL-V31A-16.0-16.5	16.0 - 16.5 ft	-3.7	-4.2	JB78382-18	JB78382	10/03/2014	remaining	N	Y		0.47	J	S6
V32A	133-B2	12.4	PPG-133-B2F_16.3-17.3	16.3 - 17.3 ft	-3.9	-4.9	792168	A686	12/11/2006	remaining	N	Y		< 4.03	RA	S6
V32A	133-B2	12.4	PPG-133-B2G_20.0-20.5	20.0 - 20.5 ft	-7.6	-8.1	792169	A686	12/11/2006	remaining	N	Y		14.9	RA	S6
V32A	133-B2	12.4	PPG-133-B2H_22.0-22.5	22.0 - 22.5 ft	-9.6	-10.1	792170	A686	12/11/2006	remaining	N	Y		< 2.42	RA	S6
V32A	133-B2	12.4	PPG-133-B2I_23.2-23.7	23.2 - 23.7 ft	-10.8	-11.3	792171	A686	12/11/2006	remaining	N	Y		< 2.51	UJ	S6
V32A	133-P3C-V32A	12.4	133-P3C-V32A-13.0-13.5	13.0 - 13.5 ft	-0.6	-1.1	JB42537-10R	JB42537R	07/18/2013	remaining	N	Y		0.52	J	S6
V32A	133-P3C-V32A	12.4	133-P3C-V32A-14.7-15.2	14.7 - 15.2 ft	-2.3	-2.8	JB42537-11R	JB42537R	07/18/2013	remaining	N	Y		0.40	J	S6
V32A	133-P3C-V32A	12.4	133-P3C-V32A-15.2-15.7	15.2 - 15.7 ft	-2.8	-3.3	JB42537-12R	JB42537R	07/18/2013	remaining	N	Y		1.1	J	S6
V33A	133-P3C-V33A	13.1	133-P3C-V33A-15.0-15.5	15.0 - 15.5 ft	-1.9	-2.4	JB81605-23R	JB81605R	11/12/2014	remaining	N	Y		1.2	J	S6
V33A	133-V33A-PB	13.1	133-V33A-PB-15.0-15.5	15.0 - 15.5 ft	-1.9	-2.4	JB99963-3	JB99963	07/24/2015	remaining	N	Y		0.30	RA	S6
V33A	133-V33A-SW-E4	13.1	133-V33A-SW-E-14.5-15.0	14.5 - 15.0 ft	-1.4	-1.9	JC137-7	JC137	07/27/2015	remaining	N	Y		< 0.25	UJ	S6
W22A	133-W22A-PB	12.2	133-W22A-PB-14.9-15.4	17.0 - 17.5 ft	-4.8	-5.3	JC5740-4	JC5740	10/08/2015	remaining	N	Y		< 0.35	UJ	S9
W23A	133-W23A-PB	12.0	133-W23A-PB-17.4-17.9	17.4 - 17.9 ft	-5.4	-5.9	JC5901-14R	JC5901R	10/09/2015	remaining	N	Y		0.52	J	
W24A	133-W24A-PB	12.0	133-W24A-PB-16.5-17.0	16.5 - 17.0 ft	-4.5	-5.0	JC6269-8	JC6269	10/14/2015	remaining	N	Y		< 0.34	RA	
W24A	133-W24A-PB	12.0	133-W24A-PB-16.5-17.0X	16.5 - 17.0 ft	-4.5	-5.0	JC6269-9	JC6269	10/14/2015	remaining	FD	Y		0.73	RA	
W25A	133-W25A-PB	12.0	133-W25A-PB-15.9-16.4	15.9 - 16.4 ft	-3.9	-4.4	JC2393-1	JC2393	08/26/2015	remaining	N	Y		< 0.49	UJ	
W25A	P4-HAL-W25A	12.0	P4-HAL-W25A-15.5-16.0	15.5 - 16.0 ft	-3.5	-4.0	JB77116-8R	JB77116R	09/19/2014	remaining	N	Y		0.85	J	
W25A	PSEG-SB43	13.3	PSEG-SB43F_18-18.5	18.0 - 18.5 ft	-4.7	-5.2	785971	Z760	11/17/2006	remaining	N	Y		< 3.44	UJ	
W25A	PSEG-SB43	13.3	PSEG-SB43G_23.5-24	23.5 - 24.0 ft	-10.2	-10.7	785972	Z760	11/17/2006	remaining	N	Y		< 2.54	UJ	
W25A	PSEG-SB43	13.3	PSEG-SB43H_24-24.5	24.0 - 24.5 ft	-10.7	-11.2	785973	Z760	11/17/2006	remaining	N	Y		< 2.47	UJ	
W26A	133-W26A-PB	12.1	133-W26A-PB-14.5-15.0	14.5 - 15.0 ft	-2.4	-2.9	JC2510-1R	JC2510R	08/27/2015	remaining	N	Y	UNDno (SP)	0.42	J	S20
W26A	P4-HAL-W26A	12.1	P4-HAL-W26A-15.0-15.5	15.0 - 15.5 ft	-2.9	-3.4	JB77366-16R	JB77366R	09/23/2014	removed	N	Y	FILL (FILL)		R	S20
W26A	P4-HAL-W26A	12.1	P4-HAL-W26A-15.0-15.5X	15.0 - 15.5 ft	-2.9	-3.4	JB77366-17R	JB77366R	09/23/2014	removed	FD	Y	FILL (FILL)		R	S20
W26A	P4-HAL-W26A	12.1	P4-HAL-W26A-15.5-16.0	15.5 - 16.0 ft	-3.4	-3.9	JB77366-18	JB77366	09/23/2014	remaining	N	Y		1.0	J	
W26A	P4-HAL-W26AR	12.2	P4-HAL-W26A-16.0-16.5R	16.0 - 16.5 ft	-3.8	-4.3	JB79531-7	JB79531	10/17/2014	remaining	N	Y		< 0.30	UJ	
W27A	133-B1	11.8	133-B1H_16-16.5	16.0 - 16.5 ft	-4.2	-4.7	791766	A623	12/08/2006	remaining	N	Y		< 3.59	U	S6
W27A	133-B1	11.8	133_B1I_18-18.5	18.0 - 18.5 ft	-6.2	-6.7	791767	A623	12/08/2006	remaining	N	Y		< 3.48	U	S6
W27A	133-B1	11.8	133-B1J_20-20.5	20.0 - 20.5 ft	-8.2	-8.7	791768	A623	12/08/2006	remaining	N	Y		< 3.52	U	S6
W27A	133-B1	11.8	133-B1K_22-22.5	22.0 - 22.5 ft	-10.2	-10.7	791769	A623	12/08/2006	remaining	N	Y		< 2.43	U	S6
W27A	133-P3C-MW1011	9.4	133-P3C-MW1011-35.0-35.5	35.0 - 35.5 ft	-25.6	-26.1	JC13952-4	JC13952	01/26/2016	remaining	N	Y		< 0.24	U	S6

Table 5-1
Cr⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criteria
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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
														CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	Result (G18, G19)	
W27A	133-P3C-MW101I	9.4	133-P3C-MW101I-40.0-40.5	40.0 - 40.5 ft	-30.6	-31.1	JC13952-5	JC13952	01/26/2016	remaining	N	Y		< 0.24	U	S6
W27A	133-P3C-MW101I	9.4	133-P3C-MW101I-44.0-44.5	44.0 - 44.5 ft	-34.6	-35.1	JC13952-6	JC13952	01/26/2016	remaining	N	Y		< 0.24	U	S6
W27A	133-W27A-PB	12.2	133-W27A-PB-15.0-15.5	15.0 - 15.5 ft	-2.8	-3.3	JC1474-5R	JC1474R	08/13/2015	remaining	N	Y		0.36	J	S6
W28A	133-P3C-W28A	12.1	133-P3C-W28A-14.5-15.0	14.5 - 15.0 ft	-2.4	-2.9	JB42410-2R	JB42410R	07/17/2013	remaining	N	Y		0.58	J	S6
W28A	133-P3C-W28A	12.1	133-P3C-W28A-15.0-15.5	15.0 - 15.5 ft	-2.9	-3.4	JB42410-3R	JB42410R	07/17/2013	remaining	N	Y		2.0	J	S6
W28A	133-W28A-PB	12.1	133-W28A-PB-13.1-13.6	13.1 - 13.6 ft	-1.0	-1.5	JC1474-3	JC1474	08/13/2015	remaining	N	Y		< 0.47	UJ	S6
W29A	133-P3C-W29A	12.4	133-P3C-W29A-14.0-14.5	14.0 - 14.5 ft	-1.6	-2.1	JB40576-13R	JB40576R	06/25/2013	remaining	N	Y		0.32	J	S6
W29A	133-P3C-W29A	12.4	133-P3C-W29A-14.5-15.0	14.5 - 15.0 ft	-2.1	-2.6	JB40576-14R	JB40576R	06/25/2013	remaining	N	Y		0.89	J	S6
W29A	133-P3C-W29A	12.4	133-P3C-W29A-14.5-15.0X	14.5 - 15.0 ft	-2.1	-2.6	JB40576-15R	JB40576R	06/25/2013	remaining	FD	Y		0.49	J	S6
W29A	133-W29A-PB	12.0	133-W29A-PB-13.2-13.7	13.2 - 13.7 ft	-1.2	-1.7	JC6112-2	JC6112	10/13/2015	remaining	N	Y		< 0.33	RA	S6
W30A	133-P3C-W30A	13.2	133-P3C-W30A-14.0-14.5	14.0 - 14.5 ft	-0.8	-1.3	JB81978-10T	JB81978T	11/17/2014	remaining	N	Y		< 0.29	UJ	S6, S21
W30A	133-P3C-W30A	13.2	133-P3C-W30AR-15.0-15.5	15.0 - 15.5 ft	-1.8	-2.3	JB83431-1R	JB83431R	12/05/2014	remaining	N	Y		0.35	J	S6, S21
W30A	133-P3C-W30A	13.2	133-P3C-W30A-15.5-16.0	15.5 - 16.0 ft	-2.3	-2.8	JB81978-11T	JB81978T	11/17/2014	remaining	N	Y		0.44	J	S6, S21
W30A	133-P3C-W30A	13.2	133-P3C-W30A-16.0-16.5	16.0 - 16.5 ft	-2.8	-3.3	JB81978-12T	JB81978T	11/17/2014	remaining	N	Y		0.57	J	S6, S21
W30A	133-W30A-PB2	13.2	133-W30A-PB-13.5-14.0	13.5 - 14.0 ft	-0.3	-0.8	JC6112-3	JC6112	10/13/2015	remaining	N	Y		< 0.30	RA	S6, S21
W30A	133-W30A-SW-E2	13.2	133-W30A-SW-E-9.0-9.5	9.0 - 9.5 ft	4.2	3.7	JC6269-6	JC6269	10/14/2015	remaining	N	Y		9.7	RA	S6, S21
W30A	133-W30A-SW-E3	13.2	133-W30A-SW-E-11.0-11.5	11.0 - 11.5 ft	2.2	1.7	JC6269-5R	JC6269R	10/14/2015	remaining	N	Y		4.4	RA	S6, S21
W30A	133-W30A-SW-E4	13.2	133-W30A-SW-E-13.0-13.5	13.0 - 13.5 ft	0.2	-0.3	JC6269-4	JC6269	10/14/2015	remaining	N	Y		0.40	RA	S6, S21
W30A	133-W31A-SW-N1	13.1	133-W31A-SW-N-9.1-9.6	9.1 - 9.6 ft	4.0	3.5	JC1610-7R	JC1610R	08/14/2015	removed	N	Y		9.8	RA	S6, S22
W30A	133-W31A-SW-N2	13.1	133-W31A-SW-N-11.1-11.6	11.1 - 11.6 ft	2.0	1.5	JC1610-6R	JC1610R	08/14/2015	removed	N	Y		4.5	RA	S6, S22
W30A	133-W31A-SW-N3	13.1	133-W31A-SW-N-13.1-13.6	13.1 - 13.6 ft	0.0	-0.5	JC1610-5R	JC1610R	08/14/2015	removed	N	Y		8.6	RA	S6, S22
W30A	133-W31A-SW-N4	13.1	133-W31A-SW-N-15.1-15.6	15.1 - 15.6 ft	-2.0	-2.5	JC1610-4	JC1610	08/14/2015	remaining	N	Y		0.82	RA	S6
X20A	133-X20A-PB	11.7	133-X20A-PB-17.0-17.5	17.0 - 17.5 ft	-5.3	-5.8	JC4987-5	JC4987	09/29/2015	remaining	N	Y		1.0	RA	
X21A	133-X21A-PB	11.3	133-X21A-PB-16.7-17.2	16.7 - 17.2 ft	-5.4	-5.9	JC4987-3R	JC4987R	09/29/2015	remaining	N	Y		1.2	RA	
X22A	133-X22A-PB	11.3	133-X22A-PB-14.0-14.5	15.9 - 16.4 ft	-4.6	-5.1	JC5740-1	JC5740	10/08/2015	remaining	N	Y		0.69	J	S9
X22A	P4-HAL-X22A	11.3	P4-HAL-X22A-16.0-16.5	16.0 - 16.5 ft	-4.7	-5.2	JB77008-5R	JB77008R	09/18/2014	remaining	N	Y		0.56	J	
X22A	P4-HAL-X22A	11.3	P4-HAL-X22A-16.5-17.0	16.5 - 17.0 ft	-5.2	-5.7	JB77008-6	JB77008	09/18/2014	remaining	N	Y		2.7	J	
X23A	133-X23A-PB	11.6	133-X23A-PB-15.4-15.9	15.4 - 15.9 ft	-3.8	-4.3	JC5901-15R	JC5901R	10/09/2015	remaining	N	Y		0.53	J	
X23A	P4-HAL-X23A	11.6	P4-HAL-X23A-16.5-17.0	16.5 - 17.0 ft	-4.9	-5.4	JB77008-14R	JB77008R	09/18/2014	remaining	N	Y		1.5	J	
X23A	P4-HAL-X23A	11.6	P4-HAL-X23A-17.0-17.5	17.0 - 17.5 ft	-5.4	-5.9	JB77008-15	JB77008	09/18/2014	remaining	N	Y		0.99	J	
X24A	133-X24A-PB2	11.9	133-X24A-PB-15.2-15.7	15.2 - 15.7 ft	-3.3	-3.8	JC6340-3	JC6340	10/15/2015	remaining	N	Y		< 0.42	UJ	
X25A	133-HSS-X25A-PB	11.5	133-HSS-X25A-PB-14.1-14.6	14.1 - 14.6 ft	-2.6	-3.1	JC6738-2R	JC6738R	10/21/2015	remaining	N	Y		2.0	J	S6
X25A	P4-HAL-X25A	11.5	P4-HAL-X25A-14.0-14.5	14.0 - 14.5 ft	-2.5	-3.0	JB77885-21R	JB77885R	09/29/2014	remaining	N	Y		1.0	J	S6
X26A	133-X26A-PB	13.3	133-X26A-PB-15.0-15.5	15.0 - 15.5 ft	-1.7	-2.2	JC2535-7R	JC2535R	08/27/2015	remaining	N	Y		3.2	J	S6
X27A	133-X27A-PB	11.9	133-X27A-PB-14.2-14.7	14.2 - 14.7 ft	-2.3	-2.8	JC1699-2R	JC1699R	08/17/2015	remaining	N	Y		1.5	J	S6
X27A	133-X27A-PB	11.9	133-X27A-PB-14.2-14.7X	14.2 - 14.7 ft	-2.3	-2.8	JC1699-3	JC1699	08/17/2015	remaining	FD	Y		1.3	J	S6
X27A	PSEG-SB42	12.0	PSEG-SB42B_15-15.5	15.0 - 15.5 ft	-3.0	-3.5	785963	Z760	11/17/2006	remaining	N	Y		< 5.45	UJ	S6
X27A	PSEG-SB42	12.0	PSEG-SB42C_18-19.5	18.0 - 19.5 ft	-6.0	-7.5	785964	Z760	11/17/2006	remaining	N	Y		< 3.64	UJ	S6
X27A	PSEG-SB42	12.0	PSEG-SB42D_23-23.5	23.0 - 23.5 ft	-11.0	-11.5	785965	Z760	11/17/2006	remaining	N	Y		< 3.38	UJ	S6
Y20A	133-Y20A-PB	11.3	133-Y20A-PB-17.0-17.5	17.0 - 17.5 ft	-5.7	-6.2	JC4987-4	JC4987	09/29/2015	remaining	N	Y		3.5	RA	
Y21A	133-Y21A-PB	11.2	133-Y21A-PB-16.3-16.8	16.3 - 16.8 ft	-5.1	-5.6	JC4987-2	JC4987	09/29/2015	remaining	N	Y		2.5	RA	
Y21A	P4-HAL-Y21A	11.2	P4-HAL-Y21A-16.5-17.0	16.5 - 17.0 ft	-5.3	-5.8	JB76853-16R	JB76853R	09/17/2014	remaining	N	Y		0.41	J	
Y21A	P4-HAL-Y21A	11.2	P4-HAL-Y21A-17.0-17.5	17.0 - 17.5 ft	-5.8	-6.3	JB76853-17R	JB76853R	09/17/2014	remaining	N	Y		2.7	J	
Y22A	114-MW19C	11.0	PPG-114-MW19CA(50.0-51.0)J45378-1	50.0 - 51.0 ft	-39.0	-40.0	J45378-1	J45378	11/02/2006	remaining	N	Y		1.5		S6
Y22A	114-MW19C	11.0	PPG-114-MW19CAD(50.0-51.0)J45378-2	50.0 - 51.0 ft	-39.0	-40.0	J45378-2	J45378	11/02/2006	remaining	FD	Y		< 1.4	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CB(54.0-55.0)J45378-3	54.0 - 55.0 ft	-43.0	-44.0	J45378-3	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CC(58.0-58.5)J45378-4	58.0 - 58.5 ft	-47.0	-47.5	J45378-4	J45378	11/02/2006	remaining	N	Y		< 1.2	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CD(62.0-62.5)J45378-5	62.0 - 62.5 ft	-51.0	-51.5	J45378-5	J45378	11/02/2006	remaining	N	Y		< 1.2	U	S6

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

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, 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	CHROMIUM (HEXAVALENT)	Specific Notes
														CAS RN Units CrSCC	18540-29-9 mg/kg 20	
Y22A	114-MW19C	11.0	PPG-114-MW19CE(64.0-64.5)J45378-6	64.0 - 64.5 ft	-53.0	-53.5	J45378-6	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CF(68.0-68.5)J45378-7	68.0 - 68.5 ft	-57.0	-57.5	J45378-7	J45378	11/02/2006	remaining	N	Y		< 1.4	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CG(72.0-72.5)J45378-8	72.0 - 72.5 ft	-61.0	-61.5	J45378-8	J45378	11/02/2006	remaining	N	Y		< 1.4	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CH(77.0-77.5)J45378-9	77.0 - 77.5 ft	-66.0	-66.5	J45378-9	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CI(80.0-80.5)J45378-10	80.0 - 80.5 ft	-69.0	-69.5	J45378-10	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CJ(84.0-84.5)J45378-11	84.0 - 84.5 ft	-73.0	-73.5	J45378-11	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CK(87.5-88.0)J45378-13	87.5 - 88.0 ft	-76.5	-77.0	J45378-13	J45378	11/02/2006	remaining	N	Y		< 1.3	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CL(93.0-93.5)J45378-14	93.0 - 93.5 ft	-82.0	-82.5	J45378-14	J45378	11/02/2006	remaining	N	Y		< 1.1	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CM(96.0-96.5)J45378-15	96.0 - 96.5 ft	-85.0	-85.5	J45378-15	J45378	11/02/2006	remaining	N	Y		< 1.2	U	S6
Y22A	114-MW19C	11.0	PPG-114-MW19CN(100.0-101.0)J45462-1	100.0 - 101.0 ft	-89.0	-90.0	J45462-1	J45462	11/03/2006	remaining	N	Y		< 1.1	UJ	S6
Y22A	133-P3C-Y22A	10.9	133-P3C-Y22A-14.1-14.6	14.1 - 14.6 ft	-3.3	-3.8	JB40820-8R	JB40820R	06/27/2013	removed	N	Y		4.3	RA	S6, S23
Y22A	133-Y22A-PB	10.9	133-Y22A-PB-15.6-16.1	15.6 - 16.1 ft	-4.7	-5.2	JC5497-2R	JC5497R	10/06/2015	remaining	N	Y		1.9	J	S6
Y23A	133-P3C-Y23A	11.6	133-P3C-Y23A-15.0-15.5	15.0 - 15.5 ft	-3.4	-3.9	JB42410-13R	JB42410R	07/17/2013	remaining	N	Y		1.5	J	S6
Y23A	133-P3C-Y23A	11.6	133-P3C-Y23A-15.0-15.5X	15.0 - 15.5 ft	-3.4	-3.9	JB42410-12R	JB42410R	07/17/2013	remaining	FD	Y		1.9	J	S6
Y23A	133-P3C-Y23A	11.6	133-P3C-Y23A-15.5-16.0	15.5 - 16.0 ft	-3.9	-4.4	JB42410-11	JB42410	07/17/2013	remaining	N	Y		2.8	J	S6
Y23A	133-Y23A-PB	11.6	133-Y23A-PB-14.3-14.8	14.3 - 14.8 ft	-2.7	-3.2	JC5740-2	JC5740	10/08/2015	remaining	N	Y		11.8	J	S6
Y24A	133-B24	11.6	PPG-133-B24H_17.5-18.0_794518	17.5 - 18.0 ft	-5.9	-6.4	794518	B013	12/18/2006	remaining	N	Y		< 3.6	UJ	S6
Y24A	133-B24	11.6	PPG-133-B24I_21.7-22.2_794519	21.7 - 22.2 ft	-10.1	-10.6	794519	B013	12/18/2006	remaining	N	Y		< 2.52	UJ	S6
Y24A	133-Y24A-PB	11.6	133-Y24A-PB-14.0-14.5	14.0 - 14.5 ft	-2.4	-2.9	JC6340-4R	JC6340R	10/15/2015	remaining	N	Y		1.3	J	S6
Z21A	133-Z21A-PB	13.4	133-Z21A-PB-17.9-18.4	17.9 - 18.4 ft	-4.5	-5.0	JC4783-2	JC4783	09/25/2015	remaining	N	Y		< 0.63	RA	S6
Z21A	P4-HAL-Z21A	10.9	P4-HAL-Z21A-16.5-17.0	16.5 - 17.0 ft	-5.6	-6.1	JB77250-18	JB77250	09/22/2014	remaining	N	Y		< 0.19	UJ	S6
Z21A	P4-HAL-Z21A	10.9	P4-HAL-Z21A-17.0-17.5	17.0 - 17.5 ft	-6.1	-6.6	JB77250-19R	JB77250R	09/22/2014	remaining	N	Y		4.4	J	S6
Z22A	133-P3C-Z22A	13.4	133-PC3-Z22A-17.5-18.0	17.5 - 18.0 ft	-4.1	-4.6	JB81809-9R	JB81809R	11/14/2014	remaining	N	Y		4.2	J	S6
Z22A	133-P3C-Z22A	13.4	133-PC3-Z22A-18.0-18.5	18.0 - 18.5 ft	-4.6	-5.1	JB81809-10	JB81809	11/14/2014	remaining	N	Y		1.3	J	S6
Z22A	133-P3C-Z22A	13.4	133-PC3-Z22A-18.5-19.0	18.5 - 19.0 ft	-5.1	-5.6	JB81809-11R	JB81809R	11/14/2014	remaining	N	Y		7.0	J	S6
Z22A	133-Z22A-PB	13.4	133-Z22A-PB-17.9-18.4	17.9 - 18.4 ft	-4.5	-5.0	JC4783-3	JC4783	09/25/2015	remaining	N	Y		1.7	RA	S6

Table 5-1
Cr⁺⁶ Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criteria
Halladay Street South, 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
Cr⁺⁶ - hexavalent chromium
CrSCC - Chromium Soil Cleanup Criteria
El. - elevation
FD - field duplicate sample type
ft - feet
GPS - global positioning system
mg/kg - milligrams per kilogram
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
PDI - Pre-Design Investigation
SDG - sample delivery group
TEE - terminal excavation elevation
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:

PT - peat
SP - poorly-graded sand

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
R - The result was rejected due to serious deficiencies; the presence or absence of the analyte could not be confirmed.
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 Q through Z (extending west to east) and Grid Column 20A through 41A (extending from north to south).
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. For some borings, the Location Elevations presented in this table were revised compared to the Location Elevations used in the proposed TEE Technical Memoranda. The revisions were based on a review of available survey data for individual locations, site-wide topographical surveys, and field notes to provide the most accurate and representative ground surface elevations. In addition, ground surface elevations for borings advanced prior to 2011 were reviewed and, if necessary, converted from the site-specific vertical datum used prior to 2011 into NAVD88.
G6. "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.
G7. "Depth Interval" is based on the "Location Elevation."
G8. "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.
G9. 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.
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.
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 Figures 5-1A, 5-1B, and 5-1C.
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.

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

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.

SPECIFIC NOTES:

S1. In Grids Q38A, Q40A, and R36A, samples collected from Site 133 West were used in the evaluation of compliance for the portion of these grids located within Halladay Street South.

S2. Adjacent to Grid Q41A, Grids P41A and Q42A require additional excavation or sampling. Based on the proposed final elevation of Grid P41A (El. 5.2 ft NAVD88), Cr⁺⁶ confirmation sidewall samples between Grids Q41A and P41A will not be required. Based on the proposed final elevation of Grid Q42A (El. 4.9 ft NAVD88), Cr⁺⁶ confirmation sidewall samples between Grids Q41A and Q42A will not be required.

S3. Grid R36A was excavated deeper than the proposed TEE of El. 4.6 ft NAVD88 for constructability. Additional sidewall samples were not required between Grids R36A and R37A because: 1) the excavation of Grid R36A was not driven by Cr⁺⁶ remediation as Cr⁺⁶ concentrations in PDI samples from location 137-P3B-R36A below El. 4.6 ft NAVD88 were less than the CrSCC; and 2) sidewall samples from locations in Grids S36A and S37A demonstrate compliance (133-HSS-S36A-SW-S1 [sample 133-HSS-S36A-SW-S-12.0-12.5], 133-HSS-S36A-SW-S2 [sample 133-HSS-S36A-SW-S-14.0-14.5], and 133-HSS-S36A-SW-S3 [sample 133-HSS-S36A-SW-S-16.0-16.5]).

S4. In Grid R41A, the PDI sample P4-HAL-R41A-6.5-7.0 (El. 5.2 to 4.7 ft NAVD88) was utilized as the Cr⁺⁶ confirmation pit bottom sample; it was removed due to sloping towards adjacent grids.

S5. Adjacent to Grid R41A, Grid R42A requires additional excavation. The proposed final elevation of Grid R42A is El. 3.8 ft NAVD88. Based on the proposed final elevation, Cr⁺⁶ confirmation sidewall samples between Grids R41A and R42A will not be required.

S6. The portions of Grids R41A, S38A, S39A, S40A, S41A, T36A, T37A, T38A, U33A, U34A, U35A, V30A, V31A, V32A, V33A, W27A, W28A, W29A, W30A, X25A, X26A, X27A, Y22A, Y23A, Y24A, Z21A, and Z22A, located in Halladay Street South were excavated concurrently with the portion of these grids located in Site 133 East. Remaining samples located within these grids in their entirety (i.e., on both sites) are included in this table.

S7. Partial Grid S33A was excavated to the same elevation as Grid S34A as part of the Halladay Street South excavation. Sample 133-HSS-S34A-PB-17.0-17.5 (El. -4.2 to -4.7 ft NAVD88) from adjacent Grid S34A serves as the Cr⁺⁶ confirmation pit bottom sample for the portion of Grid S33A that was excavated as part of Halladay Street South.

S8. In Grid S35A, the Cr⁺⁶ confirmation pit bottom sample 133-HSS-S35A-PB-15.1-15.6 (El. -2.9 to -3.4 ft NAVD88) was removed during rescraping for constructability prior to backfill. Because the grid was not excavated below El. -2.9 ft NAVD88 for Cr⁺⁶ remediation, Cr⁺⁶ confirmation sidewall samples were not required between Grids S35A and T35A.

S9. In Grids S38A, W22A, and X22A, the depth intervals included in the Sample IDs 133-S38A-SW-S-9.6-10.1 and its field duplicate, 133-W22A-PB-14.9-15.4, and 133-X22A-PB-14.0-14.5 do not correspond to the actual depth intervals where the samples were collected since the depth intervals in the sample IDs were estimated in the field. The actual depth intervals were updated following review of the GPS-measured pre-construction location elevations and GPS-measured sample start elevations and are provided in the "Depth Interval" column on this table.

S10. In Grid S40A, the PDI sample 133-P3C-S40A-7.0-7.5 (El. 4.4 to 3.9 ft NAVD88) was utilized as the Cr⁺⁶ confirmation pit bottom sample; it was removed due to sloping towards adjacent grids.

S11. Grid T32A was excavated to UND, which was encountered at El. -2.6 ft NAVD88. A Cr⁺⁶ confirmation pit bottom sample (133-HSS-T32A-PB-15.3-15.8 [El. -2.6 to -3.1 ft NAVD88]) was collected at this elevation. A test pit was dug on the Halladay Street South side of the sheet pile to collect a confirmation sample (133-HSS-T32A-18.0-18.5 [El. -5.3 to -5.8 ft NAVD88]) to supersede an exceedance within the Site 137B portion of the grid.

S12. In Grid T33A, the PDI sample P4-HAL-T33A-15.0-15.5 (El. -2.7 to -3.2 ft NAVD88) was utilized as the Cr⁺⁶ confirmation pit bottom sample; it was removed due to sloping towards adjacent grids.

S13. In Grid T36A, the Cr⁺⁶ confirmation pit bottom sample 133-HSS-T36A-PB-9.9-10.4 (El. 1.6 to 1.1 ft NAVD88) and the Cr⁺⁶ eastern sidewall confirmation sample at location 133-HSS-S36A-SW-E1 (133-HSS-S36A-SW-E-12.0-12.5 [El. 0.2 to -0.3 ft NAVD88]) were removed due to sloping towards adjacent grids.

S14. In Grids U27A and V25A, samples collected from Site 137A were used in the evaluation of compliance for the portion of these grids located within Halladay Street South

S15. In Grid U27A, the western portion of the grid located in Site 137A was excavated to El. -5.4 ft NAVD88 due to the presence of visible CCPW, removing the PDI sample 137-P3B-U27A-14.5-15.0 (El. -2.7 to -3.2 ft NAVD88) that serves as the Cr⁺⁶ confirmation pit bottom sample on the Halladay Street South side of the sheet pile. Visible CCPW was not encountered in the Halladay Street South portion of Grid U27A; therefore, excavation was conducted to El. -3.5 ft NAVD88. Sample P4-HAL-V27A-15.5-16.0 from adjacent Grid V27A was collected at El. -3.5 ft NAVD88 and serves as an additional line of evidence that the portion of Grid U27A located in Halladay Street South is in compliance with the Chromium Policy.

S16. Partial Grid T30A was excavated to the same elevation as Grid U30A as part of the Halladay Street South excavation. Sample 133-HSS-U30A-PB-15.7-16.2 (El. -3.2 to -3.7 ft NAVD88) from adjacent Grid U30A serves as the Cr⁺⁶ confirmation pit bottom sample for the portion of Grid T30A that was excavated as part of Halladay Street South.

S17. In Grid U32A, the PDI sample P4-HAL-U32A-14.5-15.0 (El. -1.8 to -2.3 ft NAVD88) was utilized as the Cr⁺⁶ confirmation pit bottom sample; it was removed due to sloping towards adjacent grids.

S18. In Grid V27A, the PDI sample P4-HAL-V27A-14.0-14.5 (El. -2.0 to -2.5 ft NAVD88) was utilized as the Cr⁺⁶ confirmation pit bottom sample; it was removed due to sloping towards the sheet pile trench.

S19. In Grid V28A, the Cr⁺⁶ result for PDI sample P4-HAL-V28A-15.0-15.5 (El. -2.4 to -2.9 ft NAVD88) was greater than 20 mg/kg but in compliance with the Chromium Policy because this sample was actually removed. Based on the sample elevation (El. -2.4 to -2.9 ft NAVD88) as compared to the as-built TEE (El. -2.4 ft NAVD88), this sample appears to be remaining in place; however, 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. Additionally, the original exceedance was superseded by a Cr⁺⁶ confirmation pit bottom sample (133-HSS-V28A-PB-15.1-15.6 [El. -2.5 to -3.0 ft NAVD88]) collected in MM at the visually clean as-built TEE of El. -2.4 ft NAVD88. The Cr⁺⁶ result for the confirmatory sample was less than 20 mg/kg.

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

S20. In Grid W26A, a portion of the PDI sample P4-HAL-W26A-15.0-15.5 and its field duplicate P4-HAL-W26A-15.0-15.5X appear to be remaining in place based on the sample elevation (El. -2.9 to -3.4 ft NAVD88) as compared to the as-built TEE (shown on Figure 5-1C). However, based on field observations, these samples were actually removed during excavation. These samples were collected from fill above MM. The excavation field notes indicate that the fill material was removed, MM was not encountered, and this grid was excavated to visually clean UND. In addition, a Cr⁺⁶ confirmation pit bottom sample 133-W26A-PB-14.5-15.0 was collected at El. -2.4 to -2.9 ft NAVD88.

S21. Grid W30A originally did not require excavation for remediation of Cr⁺⁶ as the Cr⁺⁶ concentrations in samples collected from the PDI boring 133-P3C-W30A were below the CrSCC. However, visible CCPW material was encountered in the western portion of the grid. The western portion of the grid was then excavated to El. -0.3 ft NAVD88 and a Cr⁺⁶ confirmation pit bottom sample (133-W30A-PB-13.5-14.0 [El. -0.3 to -0.8 ft NAVD88]) was collected. Visible CCPW material was not observed in the eastern portion of the grid and Cr⁺⁶ eastern sidewall confirmation samples at locations 133-W30A-SW-E2 (133-W30A-SW-E-9.0-9.5 [El. 4.2 to 3.7 ft NAVD88]), 133-W30A-SW-E3 (133-W30A-SW-E-11.0-11.5 [El. 2.2 to 1.7 ft NAVD88]), and 133-W30A-SW-E4 (133-W30A-SW-E-13.0-13.5 [El. 0.2 to -0.3 ft NAVD88]) were collected from the excavation slope towards Grid X30A.

S22. In Grid W30A, the Grid W31A Cr⁺⁶ northern sidewall confirmation samples at locations 133-W31A-SW-N1 (133-W31A-SW-N-9.1-9.6 [El. 4.0 to 3.5 ft NAVD88]), 133-W31A-SW-N2 (133-W31A-SW-N-11.1-11.6 [El. 2.0 to 1.5 ft NAVD88]), and 133-W31A-SW-N3 (133-W31A-SW-N-13.1-13.6 [El. 0.0 to -0.5 ft NAVD88]) were removed due to sloping of split Grid W30A.

S23. In Grid Y22A, the removed PDI sample 133-P3C-Y22A-14.1-14.6 (El. -3.3 to -3.8 ft NAVD88) serves as the Cr⁺⁶ southern sidewall confirmation sample.