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

														Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	**Offset (G2)**	**Location ID (G3)**	**Location Elevation (ft NAVD88) (G4, G5)**	**Sample ID (G6)**	**Depth Interval (ft bgs) (G7)**	**Sample Start Elevation (ft NAVD88) (G5, G8)**	**Sample End Elevation (ft NAVD88) (G5, G9)**	**Lab ID (G10)**	**Lab SDG (G10)**	**Date Collected (G11)**	**Sample Status (G12, G13)**	**Sample Type (G14)**	**Validated (Y/N) (G15)**	**Matrix (G16)**	**Result (G17, G18)**	**Qualifier (G19, G20)**	**Specific Notes**
0+07	15L	CAR-0+08-SW-W-1	11.6	CAR-0+08-SW-W-1-1.1-1.6	1.1 - 1.6	10.5	10.0	JC90248-1R	JC90248R	06/20/2019	Remaining	N	Y		1.2	J-	
0+07	18L	P4-A`14A	11.3	P4-A`14A-9.5-10.0	9.5 - 10.0	1.8	1.3	JB62216-2	JB62216	03/18/2014	Remaining	N	Y		0.15	J	
0+07	18L	P4-A`14A	11.3	P4-A`14A-10.0-10.5	10.0 - 10.5	1.3	0.8	JB62216-3	JB62216	03/18/2014	Remaining	N	Y		0.37	J	
0+07	18L	P4-A`14A	11.3	P4-A`14A-12.0-12.5	12.0 - 12.5	-0.7	-1.2	JB61451-1	JB61451	03/10/2014	Remaining	N	Y		5.1	J	
0+07	18L	P4-A`14A	11.3	P4-A`14A-14.0-14.5	14.0 - 14.5	-2.7	-3.2	JB61451-2	JB61451	03/10/2014	Remaining	N	Y	UNDno (SP-SM)	**31.4**	**J**	**S1**
0+07	18L	P4-A`14A	11.3	P4-A`14A-16.0-16.5	16.0 - 16.5	-4.7	-5.2	JB61451-3R	JB61451R	03/10/2014	Remaining	N	Y	UNDno (SP-SM)	**39.6**	**J**	**S1**
0+07	18L	P4-A`14A	11.3	P4-A`14A-18.0-18.5	18.0 - 18.5	-6.7	-7.2	JB61451-4R	JB61451R	03/10/2014	Remaining	N	Y	UNDno (SP-SM)	**27.9**	**J**	**S1**
0+07	18L	P4-A`14A	11.3	P4-A`14A-20.0-20.5	20.0 - 20.5	-8.7	-9.2	JB61451-5R	JB61451R	03/10/2014	Remaining	N	Y	UNDno (SP-SM)	**25.9**	**J**	**S2**
0+07	18R	CAR-0+08-SW-W-2	11.8	CAR-0+08-SW-W-2-1.3-1.8	1.3 - 1.8	10.5	10.0	JC90181-1	JC90181	06/19/2019	Remaining	N	Y		3.2	J	
0+07	23R	143-P3A-A`15A	12.4	143-P3A-A`15A-17.5-18.0	17.5 - 18.0	-5.1	-5.6	JB33649-6	JB33649	04/08/2013	Remaining	N	Y		0.38	J	
0+07	23R	143-P3A-A`15A	12.4	143-P3A-A`15A-18.0-18.5	18.0 - 18.5	-5.6	-6.1	JB33649-5	JB33649	04/08/2013	Remaining	N	Y		0.67		
0+07	23R	143-P3A-A`15A	12.4	143-P3A-A`15A-18.0-18.5X	18.0 - 18.5	-5.6	-6.1	JB33649-4	JB33649	04/08/2013	Remaining	FD	Y		0.80		
0+09	2R	114TP-1S-(1)	11.8	114-TP1-S(12-19)	1.0 - 1.6	10.8	10.2	JA90809-1	JA90809	10/31/2011	Remaining	N	N		1.8		**S3**
0+09	3L	114TP-1N-(2)	11.7	114-TP1-N(84-89)	7.0 - 7.4	4.7	4.3	JA90809-2	JA90809	11/01/2011	Remaining	N	N		0.74		**S3**
0+09	3L	114TP-1N-(2)	11.7	114-TP1-ND(84-89)	7.0 - 7.4	4.7	4.3	JA90809-3	JA90809	11/01/2011	Remaining	FD	N		0.48	B	**S3**
0+09	13L	114TP-1N-(4)	11.7	114-TP1-N(90-96)	7.5 - 8.0	4.2	3.7	JA90809-5	JA90809	11/01/2011	Remaining	N	N		< 0.25	U	**S3**
0+09	15L	CAR-0+11-SW-W-1	11.7	CAR-0+11-SW-W-1-3.2-3.7	3.2 - 3.7	8.5	8.0	JC90248-2	JC90248	06/20/2019	Remaining	N	Y		< 0.45	UJ	
0+10	23L	114TP-1N-(5)	12	114-TP1-N(126-132)	10.5 - 11.0	1.5	1.0	JA90809-6	JA90809	11/01/2011	Remaining	N	N		2.3		**S3**
0+11	17R	CAR-0+11-SW-W-2	11.8	CAR-0+11-SW-W-2-3.3-3.8	3.3 - 3.8	8.5	8.0	JC90181-2R	JC90181R	06/19/2019	Remaining	N	Y		1.1	J-	
0+12	14L	CAR-0+14-SW-W-1	11.7	CAR-0+14-SW-W-1-5.2-5.7	5.2 - 5.7	6.5	6.0	JC90248-3R	JC90248R	06/20/2019	Remaining	N	Y		0.67	J-	
0+12	14L	CAR-0+14-SW-W-1	11.7	CAR-0+14-SW-W-1-5.2-5.7X	5.2 - 5.7	6.5	6.0	JC90248-6R	JC90248R	06/20/2019	Remaining	FD	Y		0.62	J-	
0+14	17R	CAR-0+14-SW-W-2	11.9	CAR-0+14-SW-W-2-5.4-5.9	5.4 - 5.9	6.5	6.0	JC90181-3R	JC90181R	06/19/2019	Remaining	N	Y		1.9	J-	
0+15	15L	CAR-0+17-SW-W-1	11.8	CAR-0+17-SW-W-1-7.3-7.8	7.3 - 7.8	4.5	4.0	JC90248-4R	JC90248R	06/20/2019	Remaining	N	Y		0.77	J-	
0+16	17R	CAR-0+17-SW-W-2	11.9	CAR-0+17-SW-W-2-7.4-7.9	7.4 - 7.9	4.5	4.0	JC90181-4R	JC90181R	06/19/2019	Remaining	N	Y		1.1	J-	
0+16	23R	143-P3A-A`15AR2	12.6	143-P3A-A`15A-R2-16.5-17.0	16.5 - 17.0	-3.9	-4.4	JB63516-15	JB63516	04/01/2014	Remaining	N	Y		0.90		
0+16	23R	143-P3A-A`15AR2	12.6	143-P3A-A`15A-R2-17.5-18.0	17.5 - 18.0	-4.9	-5.4	JB63516-17	JB63516	04/01/2014	Remaining	N	Y		14.6		
0+16	23R	143-P3A-A`15AR2	12.6	143-P3A-A`15A-R2-18.5-19.0	18.5 - 19.0	-5.9	-6.4	JB63516-19	JB63516	04/01/2014	Remaining	N	Y		2.2		
0+19	22R	114-MW22B	12.6	PPG-114-MW22BC(13.0-14.0)J46994-3	13.0 - 14.0	-0.4	-1.4	J46994-3	J46994	11/20/2006	Remaining	N	Y		< 1.3	UJ	
0+19	22R	114-MW22B	12.6	PPG-114-MW22BCD(13.0-14.0)J46994-4	13.0 - 14.0	-0.4	-1.4	J46994-4	J46994	11/20/2006	Remaining	FD	Y		< 1.3	UJ	
0+19	22R	114-MW22B	12.6	PPG-114-MW22BD(17.5-18.0)J46994-5	17.5 - 18.0	-4.9	-5.4	J46994-5	J46994	11/20/2006	Remaining	N	Y	UNDno (SP-SM)	**26.0**	**J**	**S4**
0+19	22R	114-MW22B	12.6	PPG-114-MW22BE(22.5-23.0)J46994-6	22.5 - 23.0	-9.9	-10.4	J46994-6	J46994	11/20/2006	Remaining	N	Y		15.6	J	
0+32	33R	CAR-0+30-SW-N-1	12.7	CAR-0+30-SW-N-1-8.3-8.8	8.3 - 8.8	4.4	3.9	JC90837-1	JC90837	06/28/2019	Remaining	N	Y		1.6	J-	
0+32	36R	CAR-0+30-SW-N-2	12.8	CAR-0+30-SW-N-2-6.4-6.9	6.4 - 6.9	6.4	5.9	JC90837-2	JC90837	06/28/2019	Remaining	N	Y		1.2	J-	
0+36	17L	P4-A14A	11.9	P4-A14A-8.0-8.5	8.0 - 8.5	3.9	3.4	JB61451-7	JB61451	03/10/2014	Removed	N	Y		0.35	J	**S5**
0+36	17L	P4-A14A	11.9	P4-A14A-10.0-10.5	10.0 - 10.5	1.9	1.4	JB61451-8R	JB61451R	03/10/2014	Remaining	N	Y		0.37	J	
0+36	17L	P4-A14A	11.9	P4-A14A-11.0-11.5	11.0 - 11.5	0.9	0.4	JB62216-4	JB62216	03/18/2014	Remaining	N	Y		0.76	J	
0+36	17L	P4-A14A	11.9	P4-A14A-11.5-12.0	11.5 - 12.0	0.4	-0.1	JB62216-5	JB62216	03/18/2014	Remaining	N	Y		2.7	J	
0+36	17L	P4-A14A	11.9	P4-A14A-12.0-12.5	12.0 - 12.5	-0.1	-0.6	JB61451-9R	JB61451R	03/10/2014	Remaining	N	Y		0.76	J	
0+36	17L	P4-A14A	11.9	P4-A14A-14.0-14.5	14.0 - 14.5	-2.1	-2.6	JB61451-10	JB61451	03/10/2014	Remaining	N	Y		1.1	J	
0+36	17L	P4-A14A	11.9	P4-A14A-16.0-16.5	16.0 - 16.5	-4.1	-4.6	JB61451-11R	JB61451R	03/10/2014	Remaining	N	Y		2.8	J	
0+36	17L	P4-A14A	11.9	P4-A14A-18.0-18.5	18.0 - 18.5	-6.1	-6.6	JB61451-12	JB61451	03/10/2014	Remaining	N	Y	UNDno (SP-SM)	**64.1**	**J**	**S6**
0+36	17L	P4-A14A	11.9	P4-A14A-20.0-20.5	20.0 - 20.5	-8.1	-8.6	JB61451-13	JB61451	03/10/2014	Remaining	N	Y		12.5	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-9.0-9.5	9.0 - 9.5	3.8	3.3	JB33478-15R	JB33478R	04/05/2013	Removed	N	Y		0.87	J	**S7**
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-11.0-11.5	11.0 - 11.5	1.8	1.3	JB33478-8R	JB33478R	04/05/2013	Remaining	N	Y		0.54	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-13.0-13.5	13.0 - 13.5	-0.2	-0.7	JB33478-14	JB33478	04/05/2013	Remaining	N	Y		0.27	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-15.0-15.5	15.0 - 15.5	-2.2	-2.7	JB33478-13	JB33478	04/05/2013	Remaining	N	Y		0.79	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-17.0-17.5	17.0 - 17.5	-4.2	-4.7	JB33478-12	JB33478	04/05/2013	Remaining	N	Y		1.0	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-18.0-18.5	18.0 - 18.5	-5.2	-5.7	JB33478-11	JB33478	04/05/2013	Remaining	N	Y		0.30	J	
0+37	23R	143-P3A-A15A	12.8	143-P3A-A15A-18.5-19.0	18.5 - 19.0	-5.7	-6.2	JB33478-10	JB33478	04/05/2013	Remaining	N	Y		4.4	J	
0+62	33R	CAR-0+60-SW-N-1	12.7	CAR-0+60-SW-N-1-8.3-8.8	8.3 - 8.8	4.4	3.9	JC90963-1R	JC90963R	07/01/2019	Remaining	N	Y	FILL (FILL)	**32.4**	**J-**	**S8**
0+62	36R	CAR-0+60-SW-N-2	12.7	CAR-0+60-SW-N-2-6.3-6.8	6.3 - 6.8	6.4	5.9	JC90963-2R	JC90963R	07/01/2019	Remaining	N	Y	FILL (FILL)	**20.1**	**J**	**S8**
0+66	18L	P4-B14A	12.4	P4-B14A-8.0-8.5	8.0 - 8.5	4.4	3.9	JB61527-2	JB61527	03/11/2014	Removed	N	Y		< 0.079	UJ	**S5**
0+66	18L	P4-B14A	12.4	P4-B14A-10.0-10.5	10.0 - 10.5	2.4	1.9	JB61527-3	JB61527	03/11/2014	Remaining	N	Y		< 0.079	U	
0+66	18L	P4-B14A	12.4	P4-B14A-12.0-12.5	12.0 - 12.5	0.4	-0.1	JB61527-4	JB61527	03/11/2014	Remaining	N	Y		< 0.097	U	
0+66	18L	P4-B14A	12.4	P4-B14A-12.0-12.5X	12.0 - 12.5	0.4	-0.1	JB61527-9	JB61527	03/11/2014	Remaining	FD	Y		0.53	JB	
0+66	18L	P4-B14A	12.4	P4-B14A-12.5-13.0	12.5 - 13.0	-0.1	-0.6	JB62216-6R	JB62216R	03/18/2014	Remaining	N	Y		0.21	J	
0+66	18L	P4-B14A	12.4	P4-B14A-12.5-13.0X	12.5 - 13.0	-0.1	-0.6	JB62216-7R	JB62216R	03/18/2014	Remaining	FD	Y		2.6	J	
0+66	18L	P4-B14A	12.4	P4-B14A-13.0-13.5	13.0 - 13.5	-0.6	-1.1	JB62216-8	JB62216	03/18/2014	Remaining	N	Y		1.1	J	
0+66	18L	P4-B14A	12.4	P4-B14A-14.0-14.5	14.0 - 14.5	-1.6	-2.1	JB61527-5	JB61527	03/11/2014	Remaining	N	Y		1.2		
0+66	18L	P4-B14A	12.4	P4-B14A-16.0-16.5	16.0 - 16.5	-3.6	-4.1	JB61527-6	JB61527	03/11/2014	Remaining	N	Y		1.3		
0+66	18L	P4-B14A	12.4	P4-B14A-18.0-18.5	18.0 - 18.5	-5.6	-6.1	JB61527-7	JB61527	03/11/2014	Remaining	N	Y		0.99	JB	
0+66	18L	P4-B14A	12.4	P4-B14A-20.0-20.5	20.0 - 20.5	-7.6	-8.1	JB61527-8	JB61527	03/11/2014	Remaining	N	Y		16.1		
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-5.0-5.5	5.0 - 5.5	7.8	7.3	JB33478-7	JB33478	04/05/2013	Removed	N	Y		1.9	J	**S8**
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-7.0-7.5	7.0 - 7.5	5.8	5.3	JB33478-6R	JB33478R	04/05/2013	Removed	N	Y		< 0.14	UJ	**S8**
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-9.0-9.5	9.0 - 9.5	3.8	3.3	JB33478-5R	JB33478R	04/05/2013	Removed	N	Y		< 0.15	UJ	**S7, S8**
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-11.0-11.5	11.0 - 11.5	1.8	1.3	JB33478-4R	JB33478R	04/05/2013	Remaining	N	Y		< 0.15	UJ	**S8**
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-13.0-13.5	13.0 - 13.5	-0.2	-0.7	JB33478-3	JB33478	04/05/2013	Remaining	N	Y		0.18	J	**S8**

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

															Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	**Offset (G2)**	**Location ID (G3)**	**Location Elevation (ft NAVD88) (G4, G5)**	**Sample ID (G6)**	**Depth Interval (ft bgs) (G7)**	**Sample Start Elevation (ft NAVD88) (G5, G8)**	**Sample End Elevation (ft NAVD88) (G5, G9)**	**Lab ID (G10)**	**Lab SDG (G10)**	**Date Collected (G11)**	**Sample Status (G12, G13)**	**Sample Type (G14)**	**Validated (Y/N) (G15)**	**Matrix (G16)**	**Result (G17, G18)**	**Qualifier (G19, G20)**	**Specific Notes**
0+67	23R	143-P3A-B15A	12.8	143-P3A-B15A-13.5-14.0	13.5 - 14.0	-0.7	-1.2	JB33478-2R	JB33478R	04/05/2013	Remaining	N	Y		0.56	J	**S8**
0+70	34R	143-B15A-PB	12.8	143-B15A-PB2-6.7-7.2	6.7 - 7.2	6.1	5.6	JC54900-2	JC54900	11/07/2017	Removed	N	Y		< 0.64	U	**S8**
0+92	34R	CAR-0+90-SW-N-1	12.7	CAR-0+90-SW-N-1-8.3-8.8	8.3 - 8.8	4.4	3.9	JC91038-1	JC91038	07/02/2019	Remaining	N	Y		< 0.40	RA	
0+92	37R	CAR-0+90-SW-N-2	12.7	CAR-0+90-SW-N-2-6.3-6.8	6.3 - 6.8	6.4	5.9	JC91038-2	JC91038	07/02/2019	Remaining	N	Y		0.82	RA	
0+96	17L	P4-C14A	12.6	P4-C14A-8.0-8.5	8.0 - 8.5	4.6	4.1	JB61527-11	JB61527	03/11/2014	Removed	N	Y		< 0.078	UJ	**S5**
0+96	17L	P4-C14A	12.6	P4-C14A-10.0-10.5	10.0 - 10.5	2.6	2.1	JB61527-12	JB61527	03/11/2014	Remaining	N	Y		1.4		
0+96	17L	P4-C14A	12.6	P4-C14A-12.0-12.5	12.0 - 12.5	0.6	0.1	JB61527-13	JB61527	03/11/2014	Remaining	N	Y		0.37	JB	
0+96	17L	P4-C14A	12.6	P4-C14A-13.5-14.0	13.5 - 14.0	-0.9	-1.4	JB62216-9	JB62216	03/18/2014	Remaining	N	Y		3.9	J	
0+96	17L	P4-C14A	12.6	P4-C14A-14.0-14.5	14.0 - 14.5	-1.4	-1.9	JB61527-14	JB61527	03/11/2014	Remaining	N	Y		1.2		
0+96	17L	P4-C14A	12.6	P4-C14A-16.0-16.5	16.0 - 16.5	-3.4	-3.9	JB61527-15	JB61527	03/11/2014	Remaining	N	Y		0.76	JB	
0+96	17L	P4-C14A	12.6	P4-C14A-16.0-16.5X	16.0 - 16.5	-3.4	-3.9	JB61527-16	JB61527	03/11/2014	Remaining	FD	Y		0.51	JB	
0+96	17L	P4-C14A	12.6	P4-C14A-18.0-18.5	18.0 - 18.5	-5.4	-5.9	JB61527-17	JB61527	03/11/2014	Remaining	N	Y		6.1		
0+96	17L	P4-C14A	12.6	P4-C14A-20.0-20.5	20.0 - 20.5	-7.4	-7.9	JB61527-18	JB61527	03/11/2014	Remaining	N	Y	UNDno (SP)	**21.5**		**S9**
0+97	23R	143-P3A-C15A	12.7	143-P3A-C15A-9.0-9.5	9.0 - 9.5	3.7	3.2	JB33877-5R	JB33877R	04/10/2013	Removed	N	Y		< 0.26	RA	**S7**
0+97	23R	143-P3A-C15A	12.7	143-P3A-C15A-11.0-11.5	11.0 - 11.5	1.7	1.2	JB33877-4R	JB33877R	04/10/2013	Remaining	N	Y		< 0.27	RA	
0+97	23R	143-P3A-C15A	12.7	143-P3A-C15A-12.3-12.8	12.3 - 12.8	0.4	-0.1	JB33877-3R	JB33877R	04/10/2013	Remaining	N	Y		< 0.26	RA	
0+97	23R	143-P3A-C15A	12.7	143-P3A-C15A-12.8-13.3	12.8 - 13.3	-0.1	-0.6	JB33877-2R	JB33877R	04/10/2013	Remaining	N	Y		< 0.32	RA	
1+12	27R	143-B5	12.9	PPG-143-B5G_9.5-9.9_799364	9.5 - 9.9	3.4	3.0	799364	B818	01/11/2007	Remaining	N	Y		< 2.42	UJ	
1+12	27R	143-B5	12.9	PPG-143-B5H_9.9-10.6_799365	9.9 - 10.6	3.0	2.3	799365	B818	01/11/2007	Remaining	N	Y		< 2.53	UJ	
1+12	27R	143-B5	12.9	PPG-143-B5HDUP_9.9-10.6_799366	9.9 - 10.6	3.0	2.3	799366	B818	01/11/2007	Remaining	FD	Y		< 2.48	UJ	
1+12	27R	143-B5	12.9	PPG-143-B5I_12.6-13.1_799367	12.6 - 13.1	0.3	-0.2	799367	B818	01/11/2007	Remaining	N	Y		< 3.14	UJ	
1+12	27R	143-B5	12.9	PPG-143-B5J_13.1-13.9_799368	13.1 - 13.9	-0.2	-1.0	799368	B818	01/11/2007	Remaining	N	Y		< 3.41	UJ	
1+12	27R	143-B5	12.9	PPG-143-B5K_17.1-17.6_799369	17.1 - 17.6	-4.2	-4.7	799369	B818	01/11/2007	Remaining	N	Y		< 2.39	UJ	
1+13	30L	A4MW4V	12.5	114-A4MW4VB10-10.5	10.0 - 10.5	2.5	2.0	J11476-1A	J11476A	10/03/2005	Remaining	N	Y		< 1.2	UJ	
1+13	30L	A4MW4V	12.5	114-A4MW4VG-36-36.5	36.0 - 36.5	-23.5	-24.0	J11476-5A	J11476A	10/03/2005	Remaining	N	Y	UNDno (CL)	**34.0**	**J**	**S10**
1+13	30L	A4MW4V	12.5	114-A4MW4VGD-36-36.5	36.0 - 36.5	-23.5	-24.0	J11476-6A	J11476A	10/03/2005	Remaining	FD	Y	UNDno (CL)	**30.2**	**J**	**S10**
1+13	30L	A4MW4V	12.5	114-A4MW4-VH-37.4-37	37.4 - 37.9	-24.9	-25.4	J11476-7B	J11476B	10/03/2005	Remaining	N	Y		< 1.2	UJ	
1+20	32R	CAR-EX-1+20-SW-N-1	12.9	CAR-EX-1+20-SW-N-1-8.5-9.0	8.5 - 9.0	4.4	3.9	JC91652-1R	JC91652R	07/15/2019	Remaining	N	Y		0.76	J-	**S11**
1+21	15R	CAR-EX-1+20-15R	12.8	CAR-EX-1+20-15R-10.0-10.5	10.0 - 10.5	2.8	2.3	JC91652-3R	JC91652R	07/15/2019	Remaining	N	Y		0.71	J-	
1+21	35R	CAR-EX-1+20-SW-N-2	12.9	CAR-EX-1+20-SW-N-2-6.4-6.9	6.4 - 6.9	6.5	6.0	JC91652-2R	JC91652R	07/15/2019	Remaining	N	Y		1.3	J-	**S11**
1+27	17L	P4-D14A	12.6	P4-D14A-10.0-10.5	10.0 - 10.5	2.6	2.1	JB61527-22	JB61527	03/11/2014	Remaining	N	Y		2.3		
1+27	17L	P4-D14A	12.6	P4-D14A-12.0-12.5	12.0 - 12.5	0.6	0.1	JB61527-23	JB61527	03/11/2014	Remaining	N	Y		1.1	JB	
1+27	17L	P4-D14A	12.6	P4-D14A-14.0-14.5	14.0 - 14.5	-1.4	-1.9	JB61527-24	JB61527	03/11/2014	Remaining	N	Y		0.63	JB	
1+27	17L	P4-D14A	12.6	P4-D14A-14.5-15.0	14.5 - 15.0	-1.9	-2.4	JB62216-10R	JB62216R	03/18/2014	Remaining	N	Y		0.36	J	
1+27	17L	P4-D14A	12.6	P4-D14A-15.0-15.5	15.0 - 15.5	-2.4	-2.9	JB62216-11R	JB62216R	03/18/2014	Remaining	N	Y		1.0	J	
1+27	17L	P4-D14A	12.6	P4-D14A-16.0-16.5	16.0 - 16.5	-3.4	-4.0	JB61527-25	JB61527	03/11/2014	Remaining	N	Y	MM (PT)	**106**	**J**	**S12**
1+27	17L	P4-D14A	12.6	P4-D14A-18.0-18.5	18.0 - 18.5	-5.4	-5.9	JB61527-26	JB61527	03/11/2014	Remaining	N	Y		3.4		
1+27	17L	P4-D14A	12.6	P4-D14A-20.0-20.5	20.0 - 20.5	-7.4	-7.9	JB61527-27	JB61527	03/11/2014	Remaining	N	Y		1.1	JB	
1+27	27L	CAR-EX-1+26-27L	12.4	CAR-EX-1+26-27L-9.7-10.2	9.7 - 10.2	2.7	2.2	JC91378-1R	JC91378R	07/10/2019	Remaining	N	Y		0.70	RA	
1+27	27L	CAR-EX-1+26-27L	12.4	CAR-EX-1+26-27L-9.7-10.2X	9.7 - 10.2	2.7	2.2	JC91378-2R	JC91378R	07/10/2019	Remaining	FD	Y		2.0	RA	
1+27	27L	MW4A	12.8	MW4A(12-14)	12.0 - 14.0	0.8	-1.2	689704	R2319208	11/18/2003	Remaining	N	Y		< 4.94	UJ	
1+29	20L	XOSB-9	13.7	114-XOSB9E(16-17)20060920	16.0 - 17.0	-2.3	-3.3	J41625-4	J41625	09/20/2006	Remaining	N	Y		3.6	J	
1+29	20L	XOSB-9	13.7	114-XOSB9G(24-26)20060920	24.0 - 26.0	-10.3	-12.3	J41625-6R	J41625	09/20/2006	Remaining	N	Y		< 1.2	U	
1+33	25L	B4S	12.4	B4S(9.5-10)	9.5 - 10.0	2.9	2.4	693037	R2319364	12/02/2003	Remaining	N	Y		< 4.85	U	
1+33	25L	B4S	12.4	B4S(13.5-14)	13.5 - 14.0	-1.1	-1.6	693038	R2319364	12/02/2003	Remaining	N	Y		< 4.88	U	
1+33	25L	B4S	12.4	B4S(15.5-16)	15.5 - 16.0	-3.1	-3.6	693029	R2319364	12/02/2003	Remaining	N	Y		< 7.49	U	
1+33	27L	MW4B	12.7	MW4B (30-32)-693428	30.0 - 32.0	-17.3	-19.3	693428	R2319419	12/03/2003	Remaining	N	Y	UNDno (SM)	**360**		**S13**
1+41	31L	CAR-EX-1+40-30L	12.6	CAR-EX-1+40-30L-9.9-10.4	9.9 - 10.4	2.7	2.2	JC91710-1	JC91710	07/16/2019	Remaining	N	Y		0.65	J-	
1+52	31R	CAR-1+50-SW-N-1	12.7	CAR-1+50-SW-N-1-8.3-8.8	8.3 - 8.8	4.4	3.9	JC91974-1	JC91974	07/19/2019	Remaining	N	Y		1.4	J-	
1+52	34R	CAR-1+50-SW-N-2	12.6	CAR-1+50-SW-N-2-6.2-6.7	6.2 - 6.7	6.4	5.9	JC91974-2	JC91974	07/19/2019	Remaining	N	Y		1.1	J-	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-7.0-7.5	7.0 - 7.5	5.6	5.1	JB33735-10	JB33735	04/09/2013	Removed	N	Y		< 0.15	UJ	**S14**
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-9.0-9.5	9.0 - 9.5	3.6	3.1	JB33735-9	JB33735	04/09/2013	Remaining	N	Y		< 0.16	UJ	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-9.0-9.5X	9.0 - 9.5	3.6	3.1	JB33735-8	JB33735	04/09/2013	Remaining	FD	Y		< 0.16	UJ	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-11.0-11.5	11.0 - 11.5	1.6	1.1	JB33735-7	JB33735	04/09/2013	Remaining	N	Y		< 0.15	UJ	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-13.0-13.5	13.0 - 13.5	-0.4	-0.9	JB33735-6	JB33735	04/09/2013	Remaining	N	Y		< 0.15	UJ	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-14.1-14.6	14.1 - 14.6	-1.5	-2.0	JB33735-5	JB33735	04/09/2013	Remaining	N	Y		< 0.18	UJ	
1+57	23R	143-P3A-E15A	12.6	143-P3A-E15A-14.6-15.1	14.6 - 15.1	-2.0	-2.5	JB33735-4	JB33735	04/09/2013	Remaining	N	Y		1.1	J	
1+58	18L	P4-E14A	12.5	P4-E14A-8.0-8.5	8.0 - 8.5	4.5	4.0	JB61869-2R	JB61869R	03/13/2014	Removed	N	Y		0.65	J	**S15**
1+58	18L	P4-E14A	12.5	P4-E14A-10.0-10.5	10.0 - 10.5	2.5	2.0	JB61869-3R	JB61869R	03/13/2014	Remaining	N	Y		0.25	J	
1+58	18L	P4-E14A	12.5	P4-E14A-12.0-12.5	12.0 - 12.5	0.5	0.0	JB61869-4R	JB61869R	03/13/2014	Remaining	N	Y		0.38	J	
1+58	18L	P4-E14A	12.5	P4-E14A-14.0-14.5	14.0 - 14.5	-1.5	-2.0	JB61869-5	JB61869	03/13/2014	Remaining	N	Y		1.1	J	
1+58	18L	P4-E14A	12.5	P4-E14A-14.0-14.5X	14.0 - 14.5	-1.5	-2.0	JB61869-6	JB61869	03/13/2014	Remaining	FD	Y		0.72	J	
1+58	18L	P4-E14A	12.5	P4-E14A-14.5-15.0	14.5 - 15.0	-2.0	-2.5	JB62216-12	JB62216	03/18/2014	Remaining	N	Y		0.41	J	
1+58	18L	P4-E14A	12.5	P4-E14A-15.0-15.5	15.0 - 15.5	-2.5	-3.0	JB62216-13R	JB62216R	03/18/2014	Remaining	N	Y		2.2	J	
1+58	18L	P4-E14A	12.5	P4-E14A-16.0-16.5	16.0 - 16.5	-3.5	-4.0	JB61869-7R	JB61869R	03/13/2014	Remaining	N	Y		3.4	J	
1+58	18L	P4-E14A	12.5	P4-E14A-18.0-18.5	18.0 - 18.5	-5.5	-6.0	JB61869-8	JB61869	03/13/2014	Remaining	N	Y		0.61	J	
1+58	18L	P4-E14A	12.5	P4-E14A-20.0-20.5	20.0 - 20.5	-7.5	-8.0	JB61869-9R	JB61869R	03/13/2014	Remaining	N	Y	UNDno (SP-SM)	**288**	**J**	**S16**

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

															Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	**Offset (G2)**	**Location ID (G3)**	**Location Elevation (ft NAVD88) (G4, G5)**	**Sample ID (G6)**	**Depth Interval (ft bgs) (G7)**	**Sample Start Elevation (ft NAVD88) (G5, G8)**	**Sample End Elevation (ft NAVD88) (G5, G9)**	**Lab ID (G10)**	**Lab SDG (G10)**	**Date Collected (G11)**	**Sample Status (G12, G13)**	**Sample Type (G14)**	**Validated (Y/N) (G15)**	**Matrix (G16)**	**Result (G17, G18)**	**Qualifier (G19, G20)**	**Specific Notes**
1+81	32R	CAR-1+80-SW-N-1	12.6	CAR-1+80-SW-N-1-8.1-8.6	8.1 - 8.6	4.5	4.0	JC92308-1R	JC92308R	07/26/2019	Remaining	N	Y		1.3	J-	
1+82	34R	CAR-1+80-SW-N-2	12.6	CAR-1+80-SW-N-2-6.1-6.6	6.1 - 6.6	6.5	6.0	JC92308-2	JC92308	07/26/2019	Remaining	N	Y		5.0	J-	
1+87	17L	P4-F14A	12.4	P4-F14A-8.0-8.5	8.0 - 8.5	4.4	3.9	JB61869-12	JB61869	03/13/2014	Removed	N	Y		0.22	J	**S15**
1+87	17L	P4-F14A	12.4	P4-F14A-10.0-10.5	10.0 - 10.5	2.4	1.9	JB61869-13	JB61869	03/13/2014	Remaining	N	Y		6.3	J	
1+87	17L	P4-F14A	12.4	P4-F14A-12.0-12.5	12.0 - 12.5	0.4	-0.1	JB61869-14R	JB61869R	03/13/2014	Remaining	N	Y		1.2	J	
1+87	17L	P4-F14A	12.4	P4-F14A-14.0-14.5	14.0 - 14.5	-1.6	-2.1	JB61869-15	JB61869	03/13/2014	Remaining	N	Y		0.64	J	
1+87	17L	P4-F14A	12.4	P4-F14A-14.5-15.0	14.5 - 15.0	-2.1	-2.6	JB62216-14R	JB62216R	03/18/2014	Remaining	N	Y		0.55	J	
1+87	17L	P4-F14A	12.4	P4-F14A-15.0-15.5	15.0 - 15.5	-2.6	-3.1	JB62216-15R	JB62216R	03/18/2014	Remaining	N	Y		4.8	J	
1+87	17L	P4-F14A	12.4	P4-F14A-16.0-16.5	16.0 - 16.5	-3.6	-4.1	JB61869-16R	JB61869R	03/13/2014	Remaining	N	Y		2.3	J	
1+87	17L	P4-F14A	12.4	P4-F14A-18.0-18.5	18.0 - 18.5	-5.6	-6.1	JB61869-17	JB61869	03/13/2014	Remaining	N	Y		1.1	J	
1+87	17L	P4-F14A	12.4	P4-F14A-20.0-20.5	20.0 - 20.5	-7.6	-8.1	JB61869-18	JB61869	03/13/2014	Remaining	N	Y		1.4	J	
1+90	25R	143-P3A-F15A	12.8	143-P3A-F15A-9.0-9.5	9.0 - 9.5	3.8	3.3	JB34017-6	JB34017	04/11/2013	Removed	N	Y		0.47	J	**S17**
1+90	25R	143-P3A-F15A	12.8	143-P3A-F15A-11.0-11.5	11.0 - 11.5	1.8	1.3	JB34017-8	JB34017	04/11/2013	Remaining	N	Y		< 0.34	UJ	
1+90	25R	143-P3A-F15A	12.8	143-P3A-F15A-11.5-12.0	11.5 - 12.0	1.3	0.8	JB34017-9R	JB34017R	04/11/2013	Remaining	N	Y		0.24	J	
2+11	15R	CAR-EX-2+10-15R	12.3	CAR-EX-2+10-15R-9.0-9.5	9.0 - 9.5	3.3	2.8	JC92476-1R	JC92476R	07/31/2019	Remaining	N	Y		0.94	J-	
2+16	17L	P4-G14A	12.4	P4-G14A-8.0-8.5	8.0 - 8.5	4.4	3.9	JB61527-29	JB61527	03/11/2014	Removed	N	Y		1.4		**S15**
2+16	17L	P4-G14A	12.4	P4-G14A-10.0-10.5	10.0 - 10.5	2.4	1.9	JB61527-30	JB61527	03/11/2014	Remaining	N	Y		1.7		
2+16	17L	P4-G14A	12.4	P4-G14A-12.0-12.5	12.0 - 12.5	0.4	-0.1	JB61527-31	JB61527	03/11/2014	Remaining	N	Y		1.7		
2+16	17L	P4-G14A	12.4	P4-G14A-14.0-14.5	14.0 - 14.5	-1.6	-2.1	JB61527-32	JB61527	03/11/2014	Remaining	N	Y		1.8		
2+16	17L	P4-G14A	12.4	P4-G14A-14.5-15.0	14.5 - 15.0	-2.1	-2.6	JB62216-16R	JB62216R	03/18/2014	Remaining	N	Y		2.7	J	
2+16	17L	P4-G14A	12.4	P4-G14A-16.0-16.5	16.0 - 16.5	-3.6	-4.1	JB61527-33	JB61527	03/11/2014	Remaining	N	Y	MM (PT)	**53.9**	**J**	**S18**
2+16	17L	P4-G14A	12.4	P4-G14A-18.0-18.5	18.0 - 18.5	-5.6	-6.1	JB61527-34R	JB61527R	03/11/2014	Remaining	N	Y		2.7		
2+16	17L	P4-G14A	12.4	P4-G14A-20.0-20.5	20.0 - 20.5	-7.6	-8.1	JB61527-35R	JB61527R	03/11/2014	Remaining	N	Y		0.95	JB	
2+17	23R	143-P3A-G15A	11.8	143-P3A-G15A-9.0-9.5	9.0 - 9.5	2.8	2.3	JB33877-12R	JB33877R	04/10/2013	Remaining	N	Y		< 0.30	RA	
2+17	23R	143-P3A-G15A	11.8	143-P3A-G15A-11.0-11.5	11.0 - 11.5	0.8	0.3	JB33877-8R	JB33877R	04/10/2013	Remaining	N	Y		< 0.27	RA	
2+17	23R	143-P3A-G15A	11.8	143-P3A-G15A-12.0-12.5	12.0 - 12.5	-0.2	-0.7	JB33877-11R	JB33877R	04/10/2013	Remaining	N	Y		< 0.29	RA	
2+17	23R	143-P3A-G15A	11.8	143-P3A-G15A-12.0-12.5X	12.0 - 12.5	-0.2	-0.7	JB33877-10R	JB33877R	04/10/2013	Remaining	FD	Y		< 0.28	RA	
2+17	23R	143-P3A-G15A	11.8	143-P3A-G15A-12.5-13.0	12.5 - 13.0	-0.7	-1.2	JB33877-9	JB33877	04/10/2013	Remaining	N	Y		0.66	RA	
2+34	19L	XOSB-10	12.4	114XOSB-10D(10.0-11.0)20060914	10.0 - 11.0	2.4	1.4	J41079-1R	J41079	09/14/2006	Remaining	N	Y		< 1.6	UJ	
2+34	19L	XOSB-10	12.4	114XOSB-10E(12.0-12.9)20060914	12.0 - 12.9	0.4	-0.5	J41079-2R	J41079	09/14/2006	Remaining	N	Y		< 1.3	UJ	
2+34	19L	XOSB-10	12.4	114XOSB-10ED(12.0-12.9)20060914	12.0 - 12.9	0.4	-0.5	J41079-3R	J41079	09/14/2006	Remaining	FD	Y		< 1.3	UJ	
2+34	19L	XOSB-10	12.4	114XOSB-10F(14.0-14.5)20060914	14.0 - 14.5	-1.6	-2.1	J41079-4R	J41079	09/14/2006	Remaining	N	Y		< 2.8	UJ	
2+34	19L	XOSB-10	12.4	114XOSB-10G(17.0-17.5)20060914	17.0 - 17.5	-4.6	-5.1	J41079-5R	J41079	09/14/2006	Remaining	N	Y		8.6	J	
2+41	15L	CAR-EX-2+40-15L	12.4	CAR-EX-2+40-15L-9.2-9.7	9.2 - 9.7	3.2	2.7	JC92777-1R	JC92777	08/06/2019	Remaining	N	Y	FILL (FILL)	**49.1**	**J**	**S19**
2+41	15R	CAR-EX-2+40-15R	12.2	CAR-EX-2+40-15R-9.1-9.6	9.1 - 9.6	3.1	2.6	JC92725-1	JC92725	08/05/2019	Remaining	N	Y		2.2	J-	
2+47	23R	132-P3A-H15A	12.7	132-P3A-H15A-10.0-10.5	10.0 - 10.5	2.7	2.2	JB34144-11	JB34144	04/12/2013	Remaining	N	Y		1.0	J	
2+47	23R	132-P3A-H15A	12.7	132-P3A-H15A-12.0-12.5	12.0 - 12.5	0.7	0.2	JB34144-10R	JB34144R	04/12/2013	Remaining	N	Y		17.2	J	
2+47	23R	132-P3A-H15A	12.7	132-P3A-H15A-14.1-14.6	14.1 - 14.6	-1.4	-1.9	JB34144-9	JB34144	04/12/2013	Remaining	N	Y		1.1	J	
2+47	23R	132-P3A-H15A	12.7	132-P3A-H15A-14.6-15.1	14.6 - 15.1	-1.9	-2.4	JB34144-7	JB34144	04/12/2013	Remaining	N	Y		0.91	J	
2+47	23R	132-P3A-H15A	12.7	132-P3A-H15A-14.6-15.1X	14.6 - 15.1	-1.9	-2.4	JB34144-8	JB34144	04/12/2013	Remaining	FD	Y		0.59	J	
2+56	2L	114TP2-N (3)	12.7	114-TP2-N (168-174)	14.0 - 14.5	-1.3	-1.8	JA90302-1	JA90302	10/26/2011	Remaining	N	N		< 0.24	U	**S3**
2+56	2L	114TP2-N (3)	12.7	114-TP2-N (168-174)	14.0 - 14.5	-1.3	-1.8	JA90302-1R	JA90302R	10/26/2011	Remaining	N	N		< 0.24	U	**S3**
2+71	15L	CAR-EX-2+70-15L	12.8	CAR-EX-2+70-15L-15.4-15.9	15.4 - 15.9	-2.6	-3.1	JC93340-1	JC93340	08/15/2019	Remaining	N	Y		3.0	RA	**S20**
2+76	18L	P4-I14A	12.1	P4-I14A-14.0-14.5	14.0 - 14.5	-1.9	-2.4	JB62020-3	JB62020	03/14/2014	Removed	N	Y		7.9	J	**S20**
2+76	18L	P4-I14A	12.1	P4-I14A-14.5-15.0	14.5 - 15.0	-2.4	-2.9	JB62216-17	JB62216	03/18/2014	Removed	N	Y	FILL (FILL)	**35.2**	**J**	**S20**
2+76	18L	P4-I14A	12.1	P4-I14A-15.0-15.5	15.0 - 15.5	-2.9	-3.4	JB62216-18R	JB62216R	03/18/2014	Remaining	N	Y		2.8	J	
2+76	18L	P4-I14A	12.1	P4-I14A-16.0-16.5	16.0 - 16.5	-3.9	-4.4	JB62020-4	JB62020	03/14/2014	Remaining	N	Y		1.3	J	
2+76	18L	P4-I14A	12.1	P4-I14A-18.0-18.5	18.0 - 18.5	-5.9	-6.4	JB62020-5R	JB62020R	03/14/2014	Remaining	N	Y		2.8	J	
2+76	18L	P4-I14A	12.1	P4-I14A-20.0-20.5	20.0 - 20.5	-7.9	-8.4	JB62020-6	JB62020	03/14/2014	Remaining	N	Y		0.24	J	
2+77	23R	132-P3A-I15A	12.6	132-P3A-I15A-14.0-14.5	14.0 - 14.5	-1.4	-1.9	JB33316-2	JB33316	04/04/2013	Removed	N	Y		11.1		**S21**
2+77	23R	132-P3A-I15A	12.6	132-P3A-I15A-15.2-15.7	15.2 - 15.7	-2.6	-3.1	JB33316-3	JB33316	04/04/2013	Remaining	N	Y		< 0.33	UJ	
2+77	23R	132-P3A-I15A	12.6	132-P3A-I15A-15.2-15.7X	15.2 - 15.7	-2.6	-3.1	JB33316-4	JB33316	04/04/2013	Remaining	FD	Y		< 0.23	U	
2+77	23R	132-P3A-I15A	12.6	132-P3A-I15A-15.7-16.2	15.7 - 16.2	-3.1	-3.6	JB33316-5	JB33316	04/04/2013	Remaining	N	Y		0.98	J	
3+04	23R	CAR-EX-3+06-23R	12.4	CAR-EX-3+06-23R-17.8-18.3	17.8 - 18.3	-5.4	-5.9	JC93949-1	JC93949	08/27/2019	Remaining	N	Y		< 0.74	RA	
3+08	18L	CAR-EX-3+07-18L	12.5	CAR-EX-3+07-18L-16.1-16.6	16.1 - 16.6	-3.6	-4.1	JC93896-1	JC93896	08/26/2019	Remaining	N	Y		6.2	J-	
3+08	18L	P4-J14A	12.1	P4-J14A-18.0-18.5	18.0 - 18.5	-5.9	-6.4	JB62020-7	JB62020	03/14/2014	Remaining	N	Y		4.3	J	
3+08	18L	P4-J14A	12.1	P4-J14A-20.0-20.5	20.0 - 20.5	-7.9	-8.4	JB62020-8	JB62020	03/14/2014	Remaining	N	Y	UNDno (SP)	**674**	**J**	**S22**
3+19	19R	CAR-EX-3+18-19R	12.4	CAR-EX-3+18-19R-21.3-21.8	21.3 - 21.8	-8.9	-9.4	JC94206-1	JC94206	08/30/2019	Remaining	N	Y		1.2	J-	
3+35	15R	CAR-EX-3+30-15R	12.3	CAR-EX-3+30-15R-19.3-19.8	19.3 - 19.8	-7.0	-7.5	JC94361-1	JC94361	09/04/2019	Remaining	N	Y		0.90	J-	
3+36	17L	P4-K14A	12.2	P4-K14A-18.0-18.5	18.0 - 18.5	-5.8	-6.3	JB62020-12	JB62020	03/14/2014	Removed	N	Y		2.7	J	**S21**
3+36	17L	P4-K14A	12.2	P4-K14A-20.0-20.5	20.0 - 20.5	-7.8	-8.3	JB62020-13	JB62020	03/14/2014	Remaining	N	Y		0.11	J	
3+61	15L	CAR-EX-3+60-15L	12.5	CAR-EX-3+60-15L-18.3-18.8	18.3 - 18.8	-5.8	-6.3	JC94643-1	JC94643	09/09/2019	Remaining	N	Y		1.4	RA	
3+62	18R	CAR-EX-3+61-18R	12.5	CAR-EX-3+61-18R-19.4-19.9	19.4 - 19.9	-6.9	-7.4	JC94550-1	JC94550	09/06/2019	Remaining	N	Y		< 1.0	UJ	
3+87	30L	CAR-EX-3+86-30L	12.6	CAR-EX-3+86-30L-15.3-15.8	15.3 - 15.8	-2.7	-3.2	JC95128-1	JC95128	09/16/2019	Remaining	N	Y		2.6	J	
3+87	30L	P4-M14A	12.3	P4-M14A-16.0-16.5	16.0 - 16.5	-3.7	-4.2	JB61217-5R	JB61217R	03/06/2014	Remaining	N	Y		5.4	J	
3+87	30L	P4-M14A	12.3	P4-M14A-18.0-18.5	18.0 - 18.5	-5.7	-6.2	JB61217-6R	JB61217R	03/06/2014	Remaining	N	Y		1.6	J	
3+87	30L	P4-M14A	12.3	P4-M14A-20.0-20.5	20.0 - 20.5	-7.7	-8.2	JB61217-7	JB61217	03/06/2014	Remaining	N	Y	UNDno (SM)	**119**	**J**	**S23**

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

															Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	Offset (G2)	Location ID (G3)	Location Elevation (ft NAVD88) (G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G5, G8)	Sample End Elevation (ft NAVD88) (G5, G9)	Lab ID (G10)	Lab SDG (G10)	Date Collected (G11)	Sample Status (G12, G13)	Sample Type (G14)	Validated (Y/N) (G15)	Matrix (G16)	Result (G17, G18)	Qualifier (G19, G20)	Specific Notes
3+90	28L	C3	12.5	C3S15-15.5	15.0 - 15.5	-2.5	-3.0	667709	R2318189	08/27/2003	Remaining	N	Y		< 10.6	U	
3+95	20R	P4-M15A	12.7	P4-M15A-16.0-16.5	16.0 - 16.5	-3.3	-3.8	JB61331-3	JB61331	03/07/2014	Remaining	N	Y		16.7	RA	
3+95	20R	P4-M15A	12.7	P4-M15A-16.0-16.5X	16.0 - 16.5	-3.3	-3.8	JB61331-4	JB61331	03/07/2014	Remaining	FD	Y		1.7	RA	
3+95	20R	P4-M15A	12.7	P4-M15A-18.0-18.5	18.0 - 18.5	-5.3	-5.8	JB61331-5	JB61331	03/07/2014	Remaining	N	Y		1.9	RA	
3+95	20R	P4-M15A	12.7	P4-M15A-20.0-20.5	20.0 - 20.5	-7.3	-7.8	JB61331-6T	JB61331T	03/07/2014	Remaining	N	Y		18.3	RA	
3+95	20R	P4-M15-EX	12.2	P4-M15-EX-15.1-15.6	15.1 - 15.6	-2.9	-3.4	JC95178-1R	JC95178	09/17/2019	Remaining	N	Y		1.1	RA	
4+15	18L	XOSB-13	12.5	114X0SB-13H(18.5-19.0)20060913	18.5 - 19.0	-6.0	-6.5	J40924-7	J40924	09/13/2006	Remaining	N	Y		< 2.0	UJ	
4+15	18L	XOSB-13-EX	12.5	XOSB-13-EX-17.3-17.8	17.3 - 17.8	-4.8	-5.3	JC95385-1	JC95385	09/20/2019	Remaining	N	Y		1.3	J-	
4+22	15R	CAR-EX-4+20-15R	12.5	CAR-EX-4+20-15R-15.4-15.9	15.4 - 15.9	-2.9	-3.4	JC95562-1	JC95562	09/24/2019	Remaining	N	Y		0.83	J-	
4+28	16L	P4-N15A-EX	12.5	P4-N15A-EX-16.9-17.4	16.9 - 17.4	-4.4	-4.9	JC95638-1	JC95638	09/25/2019	Remaining	N	Y		< 0.80	RA	
4+28	16L	P4-N15A	12.5	P4-N15A-18.0-18.5	18.0 - 18.5	-5.5	-6.0	JB61869-20	JB61869	03/13/2014	Remaining	N	Y		0.84	RA	
4+28	16L	P4-N15A	12.5	P4-N15A-20.0-20.5	20.0 - 20.5	-7.5	-8.0	JB61869-21R	JB61869R	03/13/2014	Remaining	N	Y	UNDno (SM)	**189**	**RA**	**S24**
4+51	15L	CAR-EX-4+50-15L	12.2	CAR-EX-4+50-15L-16.3-16.8	16.3 - 16.8	-4.1	-4.6	JC95905-1R	JC95905R	09/30/2019	Remaining	N	Y		2.2	J	
4+51	15R	CAR-EX-4+50-15R	13	CAR-EX-4+50-15R-16.6-17.1	16.6 - 17.1	-3.6	-4.1	JC95954-1R	JC95954R	10/01/2019	Remaining	N	Y		1.5	J	
4+63	27R	P4-O16A	13.1	P4-O16A-18.0-18.5	18.0 - 18.5	-4.9	-5.4	JB61451-17	JB61451	03/10/2014	Remaining	N	Y		0.93	J	
4+63	27R	P4-O16A	13.1	P4-O16A-20.0-20.5	20.0 - 20.5	-6.9	-7.4	JB61451-18	JB61451	03/10/2014	Remaining	N	Y	UNDno (ML)	**34.9**	**J**	**S25**
4+63	27R	P4-O16A	13.1	P4-O16A-20.0-20.5X	20.0 - 20.5	-6.9	-7.4	JB61451-19	JB61451	03/10/2014	Remaining	FD	Y	UNDno (ML)	**174**	**J**	**S25**
4+81	15L	CAR-EX-4+80-15L	11.9	CAR-EX-4+80-15L-15.6-16.1	15.6 - 16.1	-3.7	-4.2	JC96333-1	JC96333	10/07/2019	Remaining	N	Y		1.1	RA	
4+82	15R	CAR-EX-4+80-15R	12.5	CAR-EX-4+80-15R-16.6-17.1	16.6 - 17.1	-4.1	-4.6	JC96457-1	JC96457	10/09/2019	Remaining	N	Y		1.2	RA	
4+82	15R	CAR-EX-4+80-15R	12.5	CAR-EX-4+80-15R-16.6-17.1X	16.6 - 17.1	-4.1	-4.6	JC96457-2R	JC96457	10/09/2019	Remaining	FD	Y		2.9	RA	
4+88	22L	P4-P15A	11.9	P4-P15A-16.0-16.5	16.0 - 16.5	-4.1	-4.6	JB61331-16T	JB61331T	03/07/2014	Remaining	N	Y		2.9	J	
4+88	22L	P4-P15A	11.9	P4-P15A-18.0-18.5	18.0 - 18.5	-6.1	-6.6	JB61331-17R	JB61331R	03/07/2014	Remaining	N	Y		0.47	J	
4+88	22L	P4-P15A	11.9	P4-P15A-20.0-20.5	20.0 - 20.5	-8.1	-8.6	JB61331-18	JB61331	03/07/2014	Remaining	N	Y		1.1	J	
4+90	20R	P4-P16A	12.6	P4-P16A-18.0-18.5	18.0 - 18.5	-5.4	-5.9	JB62020-16	JB62020	03/14/2014	Remaining	N	Y		1.1	J	
4+90	20R	P4-P16A	12.6	P4-P16A-20.0-20.5	20.0 - 20.5	-7.4	-7.9	JB62020-17	JB62020	03/14/2014	Remaining	N	Y		< 0.086	UJ	
5+11	15L	CAR-EX-5+10-15L	11.9	CAR-EX-5+10-15L-15.8-16.3	15.8 - 16.3	-3.9	-4.4	JC96781-1	JC96781	10/15/2019	Remaining	N	Y		0.78	J-	
5+11	15R	CAR-EX-5+10-15R	12.2	CAR-EX-5+10-15R-15.9-16.4	15.9 - 16.4	-3.7	-4.2	JC96727-1	JC96727	10/14/2019	Remaining	N	Y		0.65	RA	
5+31	21L	P4-Q16A	11.9	P4-Q16A-16.0-16.5	16.0 - 16.5	-4.1	-4.6	JB61331-20	JB61331	03/07/2014	Remaining	N	Y		1.1	J	
5+31	21L	P4-Q16A	11.9	P4-Q16A-18.0-18.5	18.0 - 18.5	-6.1	-6.6	JB61331-22	JB61331	03/07/2014	Remaining	N	Y		2.3	J	
5+31	21L	P4-Q16A	11.9	P4-Q16A-20.0-20.5	20.0 - 20.5	-8.1	-8.6	JB61331-23	JB61331	03/07/2014	Remaining	N	Y		4.0	J	
5+32	27R	CAR-EX-5+30-27R	12.5	CAR-EX-5+30-27R-16.3-16.8	16.3 - 16.8	-3.8	-4.3	JD1146-1R	JD1146	01/03/2020	Remaining	N	Y		7.4	RA	
5+47	9R	CAR-EX-5+44-08R	12.3	CAR-EX-5+44-08R-15.2-15.7	15.2 - 15.7	-2.9	-3.4	JD1365-1R	JD1365R	01/08/2020	Remaining	N	Y		< 0.39	UJ	
5+56	27R	P4-R17A	12.3	P4-R17A-16.0-16.5	16.0 - 16.5	-3.7	-4.2	JB61527-39R	JB61527R	03/11/2014	Remaining	N	Y		9.1	J	
5+56	27R	P4-R17A	12.3	P4-R17A-18.0-18.5	18.0 - 18.5	-5.7	-6.2	JB61527-40R	JB61527R	03/11/2014	Remaining	N	Y		2.6	J	
5+56	27R	P4-R17A	12.3	P4-R17A-20.0-20.5	20.0 - 20.5	-7.7	-8.2	JB61527-41	JB61527	03/11/2014	Remaining	N	Y		15.5	J	
5+71	15L	CAR-EX-5+70-15L	11.8	CAR-EX-5+70-15L-15-15.5	15.0 - 15.5	-3.2	-3.7	JD1365-2	JD1365	01/08/2020	Remaining	N	Y		< 0.37	UJ	
5+71	15R	CAR-EX-5+70-15R	12.2	CAR-EX-5+70-15R-15.0-15.5	15.0 - 15.5	-2.8	-3.3	JD1593-1R	JD1593	01/13/2020	Remaining	N	Y		< 0.38	UJ	
5+77	17L	XOSB-17	11.8	114-XOSB-17H(16-16.5)20060912	16.0 - 16.5	-4.2	-4.7	J40816-7R	J40816	09/12/2006	Remaining	N	Y		< 1.5	UJ	
5+77	17L	XOSB-17	11.8	114-XOSB-17L(26-27)20060912	26.0 - 27.0	-14.2	-15.2	J40816-11R	J40816	09/12/2006	Remaining	N	Y		< 1.3	UJ	
5+77	17L	XOSB-17	11.8	114-XOSB-17LD(26-27)20060912	26.0 - 27.0	-14.2	-15.2	J40816-12R	J40816	09/12/2006	Remaining	FD	Y		< 1.2	UJ	
5+84	19R	P4-S17A	12.2	P4-S17A-16.0-16.5	16.0 - 16.5	-3.8	-4.3	JB61869-27R	JB61869R	03/13/2014	Remaining	N	Y		4.1	RA	
5+84	19R	P4-S17A	12.2	P4-S17A-16.0-16.5X	16.0 - 16.5	-3.8	-4.3	JB61869-28R	JB61869R	03/13/2014	Remaining	FD	Y		2.6	RA	
5+84	19R	P4-S17A	12.2	P4-S17A-18.0-18.5	18.0 - 18.5	-5.8	-6.3	JB61869-29R	JB61869R	03/13/2014	Remaining	N	Y		4.8	RA	
5+84	19R	P4-S17A	12.2	P4-S17A-19.0-19.5	19.0 - 19.5	-6.8	-7.3	JB61869-30R	JB61869R	03/13/2014	Remaining	N	Y		4.9	RA	
5+84	19R	P4-S17A	12.2	P4-S17A-19.5-20.0	19.5 - 20.0	-7.3	-7.8	JB61869-31R	JB61869R	03/13/2014	Remaining	N	Y		5.4	RA	
6+01	15L	CAR-EX-6+00-15L	11.8	CAR-EX-6+00-15L-14.4-14.9	14.4 - 14.9	-2.6	-3.1	JD1641-2	JD1641	01/14/2020	Remaining	N	Y		< 0.35	UJ	
6+01	15L	CAR-EX-6+00-15L	11.8	CAR-EX-6+00-15L-14.4-14.9X	14.4 - 14.9	-2.6	-3.1	JD1641-3R	JD1641	01/14/2020	Remaining	FD	Y		< 0.36	UJ	
6+01	15R	CAR-EX-6+00-15R	12	CAR-EX-6+00-15R-14.4-14.9	14.4 - 14.9	-2.4	-2.9	JD1727-1	JD1727	01/15/2019	Remaining	N	Y		< 0.36	UJ	
6+25	23R	CAR-EX-6+26-25R	11.6	CAR-EX-6+26-25R-13.9-14.4	13.9 - 14.4	-2.3	-2.8	JD1727-2	JD1727	01/15/2019	Remaining	N	Y		0.47	J-	
6+27	25L	P4-T17A	11.9	P4-T17A-14.0-14.5	14.0 - 14.5	-2.1	-2.6	JB61331-31	JB61331	03/07/2014	Remaining	N	Y		0.47	J	
6+27	25L	P4-T17A	11.9	P4-T17A-14.0-14.5X	14.0 - 14.5	-2.1	-2.6	JB61331-32R	JB61331R	03/07/2014	Remaining	FD	Y		0.40	J	
6+27	25L	P4-T17A	11.9	P4-T17A-16.0-16.5	16.0 - 16.5	-4.1	-4.6	JB61331-33R	JB61331R	03/07/2014	Remaining	N	Y		0.45	J	
6+27	25L	P4-T17A	11.9	P4-T17A-16.7-17.2	16.7 - 17.2	-4.8	-5.3	JB61331-34R	JB61331R	03/07/2014	Remaining	N	Y		0.67	J	
6+27	25L	P4-T17A	11.9	P4-T17A-17.2-17.7	17.2 - 17.7	-5.3	-5.8	JB61331-35	JB61331	03/07/2014	Remaining	N	Y		3.0	J	
6+27	25L	P4-T17A	11.9	P4-T17A-19.2-19.7	19.2 - 19.7	-7.3	-7.8	JB61331-36R	JB61331R	03/07/2014	Remaining	N	Y		1.2	J	
6+27	25L	P4-T17A	11.9	P4-T17A-20.0-20.5	20.0 - 20.5	-8.1	-8.6	JB61331-37	JB61331	03/07/2014	Remaining	N	Y		0.75	J	
6+31	15L	CAR-EX-6+30-15L	11.8	CAR-EX-6+30-15L-13.9-14.4	13.9 - 14.4	-2.1	-2.6	JD1641-1	JD1641	01/14/2020	Remaining	N	Y		< 0.37	UJ	
6+47	20L	XOSB-19-EX	11.9	XOSB-19-EX-14.4-14.9	14.4 - 14.9	-2.5	-3.0	JD1641-4R	JD1641	01/14/2020	Remaining	N	Y		0.72	J-	
6+47	20L	XOSB-19	11.9	XOSB-19H(18-18.5)20060911	18.0 - 18.5	-6.1	-6.6	J40687-7	J40687	09/11/2006	Remaining	N	Y		1.4	J	
6+47	20L	XOSB-19	11.9	XOSB-19HD(18-18.5)20060911	18.0 - 18.5	-6.1	-6.6	J40687-8	J40687	09/11/2006	Remaining	FD	Y		< 1.7	UJ	
6+61	15R	CAR-EX-6+60-15R	11.8	CAR-EX-6+60-15R-14.9-15.4	14.9 - 15.4	-3.1	-3.6	JD527-1	JD527	12/18/2019	Remaining	N	Y		0.46	J-	
6+67	28R	P4-U19A	12.4	P4-U19A-18.0-18.5	18.0 - 18.5	-5.6	-6.1	JB61527-42R	JB61527R	03/11/2014	Remaining	N	Y		1.7	J	
6+67	28R	P4-U19A	12.4	P4-U19A-20.0-20.5	20.0 - 20.5	-7.6	-8.1	JB61527-43R	JB61527R	03/11/2014	Remaining	N	Y		2.3	J	
6+91	15L	CAR-EX-6+90-15L	12.2	CAR-EX-6+90-15L-15.3-15.8	15.3 - 15.8	-3.1	-3.6	JD138-1R	JD138	12/11/2019	Remaining	N	Y		< 0.26	UJ	
6+91	15R	CAR-EX-6+90-15R	12.2	CAR-EX-6+90-15R-15.1-15.6	15.1 - 15.6	-2.9	-3.4	JD246-1	JD246	12/12/2019	Remaining	N	Y		1.2	J	
6+92	15L	P4-V18A	11.8	P4-V18A-17.0-17.5	17.0 - 17.5	-5.2	-5.7	JB61869-32R	JB61869R	03/13/2014	Remaining	N	Y		0.76	RA	
6+92	15L	P4-V18A	11.8	P4-V18A-17.5-18.0	17.5 - 18.0	-5.7	-6.2	JB61869-33	JB61869	03/13/2014	Remaining	N	Y		1.8	RA	

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

														Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	**Offset (G2)**	**Location ID (G3)**	**Location Elevation (ft NAVD88) (G4, G5)**	**Sample ID (G6)**	**Depth Interval (ft bgs) (G7)**	**Sample Start Elevation (ft NAVD88) (G5, G8)**	**Sample End Elevation (ft NAVD88) (G5, G9)**	**Lab ID (G10)**	**Lab SDG (G10)**	**Date Collected (G11)**	**Sample Status (G12, G13)**	**Sample Type (G14)**	**Validated (Y/N) (G15)**	**Matrix (G16)**	**Result (G17, G18)**	**Qualifier (G19, G20)**	**Specific Notes**
7+06	25R	CAR-EX-7+05-25R	12.1	CAR-EX-7+05-25R-16.2-16.7	16.2 - 16.7	-4.1	-4.6	JD137-1	JD137	12/10/2019	Remaining	N	Y		0.98	J-	
7+19	15L	P4-W18A	11.9	P4-W18A-16.0-16.5	16.0 - 16.5	-4.1	-4.6	JB61869-34R	JB61869R	03/13/2014	Remaining	N	Y		1.8	RA	
7+19	15L	P4-W18A	11.9	P4-W18A-16.5-17.0	16.5 - 17.0	-4.6	-5.1	JB61869-35	JB61869	03/13/2014	Remaining	N	Y		2.6	RA	
7+21	15L	CAR-EX-7+20-15L	11.4	CAR-EX-7+20-15L-15.5-16	15.5 - 16.0	-4.1	-4.6	JC99656-1R	JC99656	12/05/2019	Remaining	N	Y		< 0.27	UJ	
7+21	15R	CAR-EX-7+20-15R	11.6	CAR-EX-7+20-15R-15.6-16.1	15.6 - 16.1	-4.0	-4.5	JC99774-1	JC99774	12/06/2019	Remaining	N	Y		0.55	J-	
7+23	30R	P4-W19A	12.5	P4-W19A-16.7-17.2	16.7 - 17.2	-4.2	-4.7	JB61099-1TU	JB61099TU	03/05/2014	Remaining	N	Y		3.7	J	
7+23	30R	P4-W19A	12.5	P4-W19A-18.0-18.5	18.0 - 18.5	-5.5	-6.0	JB61217-18	JB61217	03/06/2014	Remaining	N	Y		6.4	RA	
7+23	30R	P4-W19A	12.5	P4-W19A-20.0-20.5	20.0 - 20.5	-7.5	-8.0	JB61217-19	JB61217	03/06/2014	Remaining	N	Y	MM (PT)	**30.7**	**RA**	**S26**
7+38	22L	XOSB-21	11.7	XOSB-21E(20-21)20060911	20.0 - 21.0	-8.3	-9.3	J40687-1	J40687	09/11/2006	Remaining	N	Y		2.6	J	
7+44	21R	P4-X19A-EX	11.4	P4-X19A-EX-17.1-17.6	17.1 - 17.6	-5.7	-6.2	JC99525-1R	JC99525	12/04/2019	Remaining	N	Y		4.9	RA	
7+45	23R	P4-X19A	12	P4-X19A-18.0-18.5	18.0 - 18.5	-6.0	-6.5	JB61217-20	JB61217	03/06/2014	Remaining	N	Y		5.0	RA	
7+45	23R	P4-X19A	12	P4-X19A-20.0-20.5	20.0 - 20.5	-8.0	-8.5	JB61217-21R	JB61217R	03/06/2014	Remaining	N	Y	UNDno (SM-SC)	**25.8**	**RA**	**S27**
7+51	15L	CAR-EX-7+50-15L	11.6	CAR-EX-7+50-15L-17.0-17.5	17.0 - 17.5	-5.4	-5.9	JC99493-1	JC99493	12/03/2019	Remaining	N	Y		1.6	RA	
7+53	6R	P4-X19AR	11.9	P4-X19A-20.0-20.5R	20.0 - 20.5	-8.1	-8.6	JB84073-10	JB84073	12/12/2014	Remaining	N	Y		1.5	J	
7+54	11R	CAR-PDI-X19A	11.8	CAR-PDI-X19A-17.5-18.0	17.5 - 18.0	-5.7	-6.2	JC22262-9	JC22262	06/15/2016	Remaining	N	Y		< 0.32	UJ	
7+54	11R	CAR-PDI-X19A	11.8	CAR-PDI-X19A-18.0-18.5	18.0 - 18.5	-6.2	-6.7	JC22262-10R	JC22262R	06/15/2016	Remaining	N	Y		1.3	J	
7+81	15L	CAR-EX-7+80-15L	11.6	CAR-EX-7+80-15L-15.4-15.9	15.4 - 15.9	-3.8	-4.3	JC98970-1	JC98970	11/21/2019	Remaining	N	Y		0.81	RA	
7+82	10L	CAR-PDI-Y19A	11.6	CAR-PDI-Y19A-17.5-18.0	17.5 - 18.0	-5.9	-6.4	JC22262-11R	JC22262R	06/15/2016	Remaining	N	Y		0.55	J	
7+82	10L	CAR-PDI-Y19A	11.6	CAR-PDI-Y19A-18.0-18.5	18.0 - 18.5	-6.4	-6.9	JC22262-12	JC22262	06/15/2016	Remaining	N	Y		2.2	J	
7+87	6L	P4-Y19A	11.8	P4-Y19A-14.0-14.5	14.0 - 14.5	-2.2	-2.7	JB83551-7	JB83551	12/08/2014	Remaining	N	Y		0.38	J	
7+87	6L	P4-Y19A	11.8	P4-Y19A-16.0-16.5	16.0 - 16.5	-4.2	-4.7	JB83551-8	JB83551	12/08/2014	Remaining	N	Y		0.38	J	
7+89	11R	P4-HAL-Y20A	11.3	P4-HAL-Y20A-12.0-12.5	12.0 - 12.5	-0.7	-1.2	JB77632-17	JB77632	09/25/2014	Removed	N	Y		< 0.20	U	**S28**
7+89	11R	P4-HAL-Y20A	11.3	P4-HAL-Y20A-14.0-14.5	14.0 - 14.5	-2.7	-3.2	JB77632-18	JB77632	09/25/2014	Remaining	N	Y		< 0.19	U	
7+89	11R	P4-HAL-Y20A	11.3	P4-HAL-Y20A-16.0-16.5	16.0 - 16.5	-4.7	-5.2	JB77632-19	JB77632	09/25/2014	Remaining	N	Y		< 0.22	U	
7+89	11R	P4-HAL-Y20A	11.3	P4-HAL-Y20A-17.0-17.5	17.0 - 17.5	-5.7	-6.2	JB77632-20	JB77632	09/25/2014	Remaining	N	Y		< 0.19	U	
7+89	11R	P4-HAL-Y20A	11.3	P4-HAL-Y20A-17.5-18.0	17.5 - 18.0	-6.2	-6.7	JB77632-21	JB77632	09/25/2014	Remaining	N	Y		< 0.50	UJ	
8+11	15L	CAR-EX-8+10-15L	10.9	CAR-EX-8+10-15L-9.1-9.6	9.1 - 9.6	1.8	1.3	JC98130-1R	JC98130	11/07/2019	Removed	N	Y		3.4	J	**S29**
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-10.5-11.0	10.5 - 11.0	0.5	0.0	JB82738-4	JB82738	11/25/2014	Remaining	N	Y		1.4	J	
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-12.5-13.0	12.5 - 13.0	-1.5	-2.0	JB82738-5	JB82738	11/25/2014	Remaining	N	Y		0.29	J	
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-14.5-15.0	14.5 - 15.0	-3.5	-4.0	JB82738-6	JB82738	11/25/2014	Remaining	N	Y		0.67	J	
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-16.3-16.8	16.3 - 16.8	-5.3	-5.8	JB82738-7	JB82738	11/25/2014	Remaining	N	Y		0.78	J	
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-16.3-16.8X	16.3 - 16.8	-5.3	-5.8	JB82738-8	JB82738	11/25/2014	Remaining	FD	Y		< 0.20	UJ	
8+19	10R	133-P3C-Z20AR	11	133-P3C-Z20AR-16.8-17.3	16.8 - 17.3	-5.8	-6.3	JB82738-9	JB82738	11/25/2014	Remaining	N	Y		1.8	J	
8+20	11R	OSB-22	10.9	OSB-22C(11-12)20060725	11.0 - 12.0	-0.1	-1.1	J36596-1	J36596	07/25/2006	Remaining	N	Y		< 1.3	UJ	
8+20	11R	OSB-22	10.9	OSB-22D(16.8-17.3)20060725	16.8 - 17.3	-5.9	-6.4	J36596-2	J36596	07/25/2006	Remaining	N	Y			R	
8+24	2R	CAR-EX-8+22-2R	10.8	CAR-EX-8+22-2R-9-9.5	9.0 - 9.5	1.8	1.3	JC98247-1	JC98247	11/08/2019	Remaining	N	Y	FILL (FILL)	**144**	**J**	**S30**
8+35	2L	CAR-EX-8+34-2L	10.8	CAR-EX-8+34-2L-8.1-8.6	8.1 - 8.6	2.7	2.2	JC98130-2	JC98130	11/07/2019	Remaining	N	Y		1.5	J-	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-8.0-8.5	8.0 - 8.5	2.9	2.4	JC22070-12	JC22070	06/13/2016	Remaining	N	Y		< 0.33	U	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-10.0-10.5	10.0 - 10.5	0.9	0.4	JC22070-3	JC22070	06/13/2016	Remaining	N	Y		0.77		
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-10.0-10.5X	10.0 - 10.5	0.9	0.4	JC22070-4	JC22070	06/13/2016	Remaining	FD	Y		< 0.49	U	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-12.0-12.5	12.0 - 12.5	-1.1	-1.6	JC22070-5	JC22070	06/13/2016	Remaining	N	Y		< 0.33	U	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-14.0-14.5	14.0 - 14.5	-3.1	-3.6	JC22070-6	JC22070	06/13/2016	Remaining	N	Y		< 0.32	U	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-14.7-15.2	14.7 - 15.2	-3.8	-4.3	JC22070-7	JC22070	06/13/2016	Remaining	N	Y		< 0.33	U	
8+36	26L	CAR-PDI-AA19A	10.9	CAR-PDI-AA19A-15.2-15.7	15.2 - 15.7	-4.3	-4.8	JC22070-8	JC22070	06/13/2016	Remaining	N	Y		< 0.60	UJ	
8+41	15L	CAR-EX-8+40-15L	10.6	CAR-EX-8+40-15L-7.2-7.7	7.2 - 7.7	3.4	2.9	JC97837-1R	JC97837R	11/01/2019	Remaining	N	Y		0.75	RA	
8+41	15R	CAR-EX-8+40-15R	10.8	CAR-EX-8+40-15R-7.4-7.9	7.4 - 7.9	3.4	2.9	JC97963-1	JC97963	11/05/2019	Remaining	N	Y	FILL (FILL)	**277**	**J**	**S30**
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-8.0-8.5	8.0 - 8.5	2.7	2.2	JC21870-12R	JC21870R	06/09/2016	Remaining	N	Y		1.1	J	
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-10.0-10.5	10.0 - 10.5	0.7	0.2	JC21870-3R	JC21870R	06/09/2016	Remaining	N	Y		0.68	J	
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-12.0-12.5	12.0 - 12.5	-1.3	-1.8	JC21870-4	JC21870	06/09/2016	Remaining	N	Y		0.52	J	
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-14.0-14.5	14.0 - 14.5	-3.3	-3.8	JC21870-5R	JC21870R	06/09/2016	Remaining	N	Y		0.83	J	
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-15.0-15.5	15.0 - 15.5	-4.3	-4.8	JC21870-6	JC21870	06/09/2016	Remaining	N	Y		< 0.32	UJ	
8+48	14R	CAR-PDI-AA20A	10.7	CAR-PDI-AA20A-15.5-16.0	15.5 - 16.0	-4.8	-5.3	JC21870-7R	JC21870R	06/09/2016	Remaining	N	Y		2.3	J	
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-6.0-6.5	6.0 - 6.5	4.4	3.9	JC21509-9	JC21509	06/03/2016	Removed	N	Y		0.58	J	**S31**
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-8.0-8.5	8.0 - 8.5	2.4	1.9	JC21509-10R	JC21509R	06/03/2016	Remaining	N	Y		0.67	J	
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-10.0-10.5	10.0 - 10.5	0.4	-0.1	JC21509-3R	JC21509R	06/03/2016	Remaining	N	Y		< 0.14	U	
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-12.0-12.5	12.0 - 12.5	-1.6	-2.1	JC21509-4R	JC21509R	06/03/2016	Remaining	N	Y		0.56		
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-13.5-14.0	13.5 - 14.0	-3.1	-3.6	JC21509-5	JC21509	06/03/2016	Remaining	N	Y		0.51		
8+63	26L	HSD-PDI-BB19A	10.4	HSD-PDI-BB19A-14.0-14.5	14.0 - 14.5	-3.6	-4.1	JC21509-6	JC21509	06/03/2016	Remaining	N	Y		< 0.69	UJ	
8+71	15R	CAR-EX-8+70-15R	10.8	CAR-EX-8+70-15R-7.4-7.9	7.4 - 7.9	3.4	2.9	JC97924-1	JC97924	11/04/2019	Remaining	N	Y		4.4	J	
8+74	7L	CAR-PDI-BB20A	10.7	CAR-PDI-BB20A-10.0-10.5	10.0 - 10.5	0.7	0.2	JC21933-2R	JC21933R	06/10/2016	Remaining	N	Y		0.41	J	
8+74	12L	P4-BB20A	10.5	P4-BB20A-6.0-6.5	6.0 - 6.5	4.5	4.0	JB83669-4	JB83669	12/09/2014	Removed	N	Y		3.4	J	**S31**
8+74	12L	P4-BB20A	10.5	P4-BB20A-8.0-8.5	8.0 - 8.5	2.5	2.0	JB83669-5	JB83669	12/09/2014	Remaining	N	Y		< 0.33	UJ	
8+74	12L	P4-BB20A	10.5	P4-BB20A-12.0-12.5	12.0 - 12.5	-1.5	-2.0	JB83669-6	JB83669	12/09/2014	Remaining	N	Y		11.6	J	
8+74	12L	P4-BB20A	10.5	P4-BB20A-14.0-14.5	14.0 - 14.5	-3.5	-4.0	JB83669-7	JB83669	12/09/2014	Remaining	N	Y		< 0.32	UJ	
8+74	12L	P4-BB20A	10.5	P4-BB20A-15.0-15.5	15.0 - 15.5	-4.5	-5.0	JB83669-8	JB83669	12/09/2014	Remaining	N	Y		0.81	J	
8+74	12L	P4-BB20A	10.5	P4-BB20A-15.5-16.0	15.5 - 16.0	-5.0	-5.5	JB83669-9	JB83669	12/09/2014	Remaining	N	Y		3.2	J	
9+01	15R	CAR-EX-9+00-15R	10.7	CAR-EX-9+00-15R-7.5-8.0	7.5 - 8.0	3.2	2.7	JC97786-1R	JC97786R	10/31/2019	Remaining	N	Y		1.8	J	

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

														Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	Offset (G2)	Location ID (G3)	Location Elevation (ft NAVD88) (G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G5, G8)	Sample End Elevation (ft NAVD88) (G5, G9)	Lab ID (G10)	Lab SDG (G10)	Date Collected (G11)	Sample Status (G12, G13)	Sample Type (G14)	Validated (Y/N) (G15)	Matrix (G16)	Result (G17, G18)	Qualifier (G19, G20)	Specific Notes
9+02	26L	PSEG-SB54	10.2	PSEG-SB54C(6.5-7.1)J47368-3	6.5 - 7.1	3.7	3.1	J47368-3	J47368	11/27/2006	Remaining	N	Y		< 1.2	U	
9+02	26L	PSEG-SB54	10.2	PSEG-SB54D(12.0-12.5)J47368-4	12.0 - 12.5	-1.8	-2.3	J47368-4	J47368	11/27/2006	Remaining	N	Y		< 1.2	U	
9+02	26L	PSEG-SB54	10.2	PSEG-SB54E(14.5-15.0)J47368-5	14.5 - 15.0	-4.3	-4.8	J47368-5	J47368	11/27/2006	Remaining	N	Y		< 1.8	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52C(8.5-9.0)J47237-5R	8.5 - 9.0	2.6	2.1	J47237-5R	J47237	11/22/2006	Remaining	N	Y		< 2.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52D(9.0-9.1)J47237-6R	9.0 - 9.1	2.1	2.0	J47237-6R	J47237	11/22/2006	Remaining	N	N		4.4		**S3**
9+03	21R	PSEG-SB52	11.1	PSEG-SB52E(10.0-10.5)J47237-7R	10.0 - 10.5	1.1	0.6	J47237-7R	J47237	11/22/2006	Remaining	N	Y		< 1.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52F(12.0-13.0)J47237-8R	12.0 - 13.0	-0.9	-1.9	J47237-8R	J47237	11/22/2006	Remaining	N	Y		< 1.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52G(14.2-14.9)J47237-9R	14.2 - 14.9	-3.1	-3.8	J47237-9R	J47237	11/22/2006	Remaining	N	Y		< 1.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52GD(14.2-14.9)J47237-10R	14.2 - 14.9	-3.1	-3.8	J47237-10R	J47237	11/22/2006	Remaining	FD	Y		< 1.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52H(16.0-16.5)J47368-9	16.0 - 16.5	-4.9	-5.4	J47368-9	J47368	11/27/2006	Remaining	N	Y		< 2.2	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52I(19.0-20.0)J47368-10	19.0 - 20.0	-7.9	-8.9	J47368-10	J47368	11/27/2006	Remaining	N	Y		< 1.9	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52ID(19.0-20.0)J47368-11	19.0 - 20.0	-7.9	-8.9	J47368-11	J47368	11/27/2006	Remaining	FD	Y		< 1.9	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52J(20.0-21.0)J47368-12	20.0 - 21.0	-8.9	-9.9	J47368-12	J47368	11/27/2006	Remaining	N	Y		< 1.9	U	
9+03	21R	PSEG-SB52	11.1	PSEG-SB52K(21.0-21.2)J47368-13	21.0 - 21.2	-9.9	-10.1	J47368-13	J47368	11/27/2006	Remaining	N	Y		< 1.2	U	
9+04	18L	P4-CC20A	10.1	P4-CC20A-4.0-4.5	4.0 - 4.5	6.1	5.6	JB83952-4	JB83952	12/11/2014	Removed	N	Y		0.48		**S31, S32**
9+04	18L	P4-CC20A	10.1	P4-CC20A-6.0-6.5	6.0 - 6.5	4.1	3.6	JB83952-5	JB83952	12/11/2014	Remaining	N	Y		0.23	J	
9+04	18L	P4-CC20A	10.1	P4-CC20A-8.0-8.5	8.0 - 8.5	2.1	1.6	JB83952-6	JB83952	12/11/2014	Remaining	N	Y		0.37	J	
9+05	20L	CAR-PDI-CC20A	10.1	CAR-PDI-CC20A-10.0-10.5	10.0 - 10.5	0.1	-0.4	JC21933-3R	JC21933R	06/10/2016	Remaining	N	Y		0.56	J	
9+05	20L	CAR-PDI-CC20A	10.1	CAR-PDI-CC20A-10.0-10.5X	10.0 - 10.5	0.1	-0.4	JC21933-4R	JC21933R	06/10/2016	Remaining	FD	Y		0.38	J	
9+05	20L	CAR-PDI-CC20A	10.1	CAR-PDI-CC20A-12.0-12.5	12.0 - 12.5	-1.9	-2.4	JC21933-5R	JC21933R	06/10/2016	Remaining	N	Y		0.54	J	
9+05	20L	CAR-PDI-CC20A	10.1	CAR-PDI-CC20A-12.5-13.0	12.5 - 13.0	-2.4	-2.9	JC21933-6R	JC21933R	06/10/2016	Remaining	N	Y		1.5	J	
9+05	20L	CAR-PDI-CC20A	10.1	CAR-PDI-CC20A-13.0-13.5	13.0 - 13.5	-2.9	-3.4	JC21933-7	JC21933	06/10/2016	Remaining	N	Y		1.1	J	
9+17	14R	CAR-PDI-CC21A	10.7	CAR-PDI-CC21A-8.0-8.5	8.0 - 8.5	2.7	2.2	JC21870-17	JC21870	06/09/2016	Remaining	N	Y		0.51	J	
9+17	14R	CAR-PDI-CC21A	10.7	CAR-PDI-CC21A-11.0-11.5	11.0 - 11.5	-0.3	-0.8	JC21870-13	JC21870	06/09/2016	Remaining	N	Y		0.48	J	
9+17	14R	CAR-PDI-CC21A	10.7	CAR-PDI-CC21A-11.5-12.0	11.5 - 12.0	-0.8	-1.3	JC21870-14	JC21870	06/09/2016	Remaining	N	Y		1.8	J	
9+27	26L	EF-99	10.8	EF-B099-2.5-3.0	2.5 - 3.0	8.3	7.8	JB15380-3	JB15380	09/04/2012	Remaining	N	Y		7.2	J	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-4.0-4.5	4.0 - 4.5	6.7	6.2	JC22070-17R	JC22070R	06/13/2016	Remaining	N	Y		1.3	J	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-6.0-6.5	6.0 - 6.5	4.7	4.2	JC22070-18	JC22070	06/13/2016	Remaining	N	Y		3.1	J	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-8.0-8.5	8.0 - 8.5	2.7	2.2	JC22070-19	JC22070	06/13/2016	Remaining	N	Y		0.62	J	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-10.0-10.5	10.0 - 10.5	0.7	0.2	JC22070-13	JC22070	06/13/2016	Remaining	N	Y		< 0.33	U	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-12.0-12.5	12.0 - 12.5	-1.3	-1.8	JC22070-14	JC22070	06/13/2016	Remaining	N	Y		< 0.32	U	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-12.5-13.0	12.5 - 13.0	-1.8	-2.3	JC22070-15R	JC22070R	06/13/2016	Remaining	N	Y		0.45	J	
9+30	26L	CAR-PDI-DD20A	10.7	CAR-PDI-DD20A-13.0-13.5	13.0 - 13.5	-2.3	-2.8	JC22070-16R	JC22070R	06/13/2016	Remaining	N	Y		3.4	J	
9+35	15R	CAR-EX-9+30-15R	10.5	CAR-EX-9+30-15R-7.1-7.6	7.1 - 7.6	3.4	2.9	JC97439-5	JC97439	10/25/2019	Remaining	N	Y		14.6	J	
9+41	12L	CAR-9+30-SW-N-3	10.7	CAR-9+30-SW-N-3-2.2-2.7	2.2 - 2.7	8.5	8.0	JC97439-3	JC97439	10/25/2019	Remaining	N	Y		16.2	J	**S33**
9+41	14L	CAR-9+30-SW-N-4	10.6	CAR-9+30-SW-N-4-0.2-0.7	0.2 - 0.7	10.4	9.9	JC97439-4	JC97439	10/25/2019	Remaining	N	Y		2.1	J	
9+42	6L	CAR-9+30-SW-N-1	10.8	CAR-9+30-SW-N-1-6.8-7.3	6.8 - 7.3	4.0	3.5	JC97439-1	JC97439	10/25/2019	Remaining	N	Y	FILL (FILL)	**79.2**	**J**	**S34**
9+42	7L	CAR-9+30-SW-N-2	10.7	CAR-9+30-SW-N-2-5.2-5.7	5.2 - 5.7	5.5	5.0	JC97439-2	JC97439	10/25/2019	Remaining	N	Y		1.2	J	**S33**
9+44	6R	CAR-PDI-DD21A	10.7	CAR-PDI-DD21A-7.5-8.0	7.5 - 8.0	3.2	2.7	JC22070-26	JC22070	06/13/2016	Remaining	N	Y		< 0.61	UJ	
9+44	6R	CAR-PDI-DD21A	10.7	CAR-PDI-DD21A-9.5-10.0	9.5 - 10.0	1.2	0.7	JC22070-27	JC22070	06/13/2016	Remaining	N	Y		0.54	J	
9+44	6R	CAR-PDI-DD21A	10.7	CAR-PDI-DD21A-11.5-12.0	11.5 - 12.0	-0.8	-1.3	JC22070-21R	JC22070R	06/13/2016	Remaining	N	Y		1.5	J	
9+44	6R	CAR-PDI-DD21A	10.7	CAR-PDI-DD21A-13.5-14.0	13.5 - 14.0	-2.8	-3.3	JC22070-22R	JC22070R	06/13/2016	Remaining	N	Y		0.58	J	
9+44	6R	CAR-PDI-DD21A	10.7	CAR-PDI-DD21A-14.0-14.5	14.0 - 14.5	-3.3	-3.8	JC22070-23R	JC22070R	06/13/2016	Remaining	N	Y		1.4	J	
9+52	17R	EF-49	10.2	EF-B49-11.0	11.0 - 11.5	-0.8	-1.3	460-26881-1	460268811	05/25/2011	Remaining	N	Y		< 0.84	UJ	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-2.0-2.5	2.0 - 2.5	8.7	8.2	JC22160-8R	JC22160R	06/14/2016	Removed	N	Y		7.6	J	**S35**
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-4.0-4.5	4.0 - 4.5	6.7	6.2	JC22160-9	JC22160	06/14/2016	Remaining	N	Y		0.49	J	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-6.0-6.5	6.0 - 6.5	4.7	4.2	JC22160-10R	JC22160R	06/14/2016	Remaining	N	Y		0.47	J	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-8.0-8.5	8.0 - 8.5	2.7	2.2	JC22160-11	JC22160	06/14/2016	Remaining	N	Y		< 0.54	UJ	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-10.0-10.5	10.0 - 10.5	0.7	0.2	JC22160-3	JC22160	06/14/2016	Remaining	N	Y		< 0.34	UJ	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-12.0-12.5	12.0 - 12.5	-1.3	-1.8	JC22160-7	JC22160	06/14/2016	Remaining	N	Y		0.39	J	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-14.0-14.5	14.0 - 14.5	-3.3	-3.8	JC22160-6	JC22160	06/14/2016	Remaining	N	Y		< 0.34	UJ	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-15.0-15.5	15.0 - 15.5	-4.3	-4.8	JC22160-4	JC22160	06/14/2016	Remaining	N	Y		0.88	J	
9+57	23L	CAR-PDI-EE20A	10.7	CAR-PDI-EE20A-15.5-16.0	15.5 - 16.0	-4.8	-5.3	JC22160-5	JC22160	06/14/2016	Remaining	N	Y		5.3	J	
9+61	15R	CAR-EX-9+60-15R	10	CAR-EX-9+60-15R-6.6-7.1	6.6 - 7.1	3.4	2.9	JC97391-1	JC97391	10/24/2019	Remaining	N	Y		0.73	RA	
9+72	7L	CAR-PDI-EE21A	10.4	CAR-PDI-EE21A-10.5-11.0	10.5 - 11.0	-0.1	-0.6	JC21681-2R	JC21681R	06/07/2016	Remaining	N	Y		1.9	J	
9+72	7L	CAR-PDI-EE21A	10.4	CAR-PDI-EE21A-11.0-11.5	11.0 - 11.5	-0.6	-1.1	JC21681-3	JC21681	06/07/2016	Remaining	N	Y		2.2	J	
9+73	6L	CAR-9+72-SW-N-1	10.2	CAR-9+72-SW-N-1-5.7-6.2	5.7 - 6.2	4.5	4.0	JC97391-2	JC97391	10/24/2019	Remaining	N	Y		11.3	RA	
9+73	9L	CAR-9+72-SW-N-2	10.2	CAR-9+72-SW-N-2-3.8-4.3	3.8 - 4.3	6.4	5.9	JC97391-3	JC97391	10/24/2019	Remaining	N	Y		7.4	RA	
9+73	10L	P4-EE21A	10.4	P4-EE21A-1.0-1.5	1.0 - 1.5	9.4	8.9	JB83802-1	JB83802	12/10/2014	Removed	N	Y		15.0	J	**S36**
9+73	10L	P4-EE21A	10.4	P4-EE21A-2.0-2.5	2.0 - 2.5	8.4	7.9	JB83802-2	JB83802	12/10/2014	Removed	N	Y		8.0	J	**S36**
9+73	10L	P4-EE21A	10.4	P4-EE21A-4.0-4.5	4.0 - 4.5	6.4	5.9	JB83802-3R	JB83802R	12/10/2014	Remaining	N	Y		14.5	J	
9+73	10L	P4-EE21A	10.4	P4-EE21A-6.0-6.5	6.0 - 6.5	4.4	3.9	JB83802-4R	JB83802R	12/10/2014	Remaining	N	Y	FILL (FILL)	**23.0**	**J**	**S34**
9+73	10L	P4-EE21A	10.4	P4-EE21A-8.0-8.5	8.0 - 8.5	2.4	1.9	JB83802-5R	JB83802R	12/10/2014	Remaining	N	Y		< 0.23	UJ	
9+73	10L	P4-EE21A	10.4	P4-EE21A-11.0-11.5	11.0 - 11.5	-0.6	-1.1	JB83802-6R	JB83802R	12/10/2014	Remaining	N	Y		0.98	J	
9+73	10L	P4-EE21A	10.4	P4-EE21A-12.0-12.5	12.0 - 12.5	-1.6	-2.1	JB83802-7R	JB83802R	12/10/2014	Remaining	N	Y		0.50	J	
9+73	10L	P4-EE21A	10.4	P4-EE21A-14.0-14.5	14.0 - 14.5	-3.6	-4.1	JB83802-8	JB83802	12/10/2014	Remaining	N	Y		< 0.19	UJ	
9+73	10L	P4-EE21A	10.4	P4-EE21A-14.5-15.0	14.5 - 15.0	-4.1	-4.6	JB83802-9R	JB83802R	12/10/2014	Remaining	N	Y		0.66	J	

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

															Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	Offset (G2)	Location ID (G3)	Location Elevation (ft NAVD88) (G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G5, G8)	Sample End Elevation (ft NAVD88) (G5, G9)	Lab ID (G10)	Lab SDG (G10)	Date Collected (G11)	Sample Status (G12, G13)	Sample Type (G14)	Validated (Y/N) (G15)	Matrix (G16)	Result (G17, G18)	Qualifier (G19, G20)	Specific Notes
9+73	10L	P4-EE21A	10.4	P4-EE21A-15.0-15.5	15.0 - 15.5	-4.6	-5.1	JB83802-10	JB83802	12/10/2014	Remaining	N	Y		2.1	J	
9+78	27L	EF-100	10.6	EF-B100-2.5-3.0	2.5 - 3.0	8.1	7.6	JB15380-6	JB15380	09/04/2012	Remaining	N	Y		0.54	J	
9+78	39L	FF20A-PUB1	13.4	FF20A-PUB1-3.3-3.8	3.3 - 3.8	10.1	9.6	JC76240-4R	JC76240R	10/19/2018	Remaining	N	Y		3.1	J	
9+82	14R	CAR-PDI-EE22A	9.8	CAR-PDI-EE22A-7.0-7.5	7.0 - 7.5	2.8	2.3	JC21933-10	JC21933	06/10/2016	Remaining	N	Y		< 0.41	UJ	
9+82	14R	CAR-PDI-EE22A	9.8	CAR-PDI-EE22A-11.0-11.5	11.0 - 11.5	-1.2	-1.7	JC21933-8R	JC21933R	06/10/2016	Remaining	N	Y		1.0	J	
9+82	14R	CAR-PDI-EE22A	9.8	CAR-PDI-EE22A-12.7-13.2	12.7 - 13.2	-2.9	-3.4	JC21933-9	JC21933	06/10/2016	Remaining	N	Y		< 0.32	UJ	
9+82	20R	135-B19	9.9	PPG-135-B19E_9.4-9.9_796868	9.4 - 9.9	0.5	0.0	796868	B400	01/02/2007	Remaining	N	Y		< 3.18	UJ	
9+82	20R	135-B19	9.9	PPG-135-B19F_13.2-13.7_796869	13.2 - 13.7	-3.3	-3.8	796869	B400	01/02/2007	Remaining	N	Y		< 3.38	UJ	
9+82	20R	135-B19	9.9	PPG-135-B19G_17.2-18.2_796870	17.2 - 18.2	-7.3	-8.3	796870	B400	01/02/2007	Remaining	N	Y		< 3.82	UJ	
9+82	20R	135-B19	9.9	PPG-135-B19GD_17.2-18.2_796871	17.2 - 18.2	-7.3	-8.3	796871	B400	01/02/2007	Remaining	FD	Y		< 3.85	UJ	
9+82	20R	135-B19	9.9	PPG-135-B19H_20.2-20.7_796872	20.2 - 20.7	-10.3	-10.8	796872	B400	01/02/2007	Remaining	N	Y		< 2.53	UJ	
9+91	7L	CAR-9+90-SW-N-1	9.7	CAR-9+90-SW-N-1-5.3-5.8	5.3 - 5.8	4.4	3.9	JC97274-1	JC97274	10/23/2019	Remaining	N	Y		12.6	J	
9+91	7L	CAR-9+90-SW-N-1	9.7	CAR-9+90-SW-N-1-5.3-5.8X	5.3 - 5.8	4.4	3.9	JC97274-2R	JC97274	10/23/2019	Remaining	FD	Y		3.3	J	
9+91	10L	CAR-9+90-SW-N-2	9.9	CAR-9+90-SW-N-2-3.5-4.0	3.5 - 4.0	6.4	5.9	JC97274-3R	JC97274	10/23/2019	Remaining	N	Y		7.2	J	
9+91	13L	CAR-9+90-SW-N-3	9.9	CAR-9+90-SW-N-3-1.5-2.0	1.5 - 2.0	8.4	7.9	JC97274-4R	JC97274	10/23/2019	Remaining	N	Y		10.3	J	
9+91	15R	CAR-EX-9+90-15R	9.7	CAR-EX-9+90-15R-6.6-7.1	6.6 - 7.1	3.1	2.6	JC97212-1	JC97212	10/22/2019	Remaining	N	Y		< 0.43	UJ	
10+04	15R	CAR-10+03-SW-E	9.4	CAR-10+03-SW-E-5.0-5.5	5.0 - 5.5	4.4	3.9	JC97212-4	JC97212	10/22/2019	Remaining	N	Y		< 0.37	UJ	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-0.7-1.2	0.7 - 1.2	9.1	8.6	JC21681-4R	JC21681R	06/07/2016	Remaining	N	Y		8.7	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-2.0-2.5	2.0 - 2.5	7.8	7.3	JC21681-9R	JC21681R	06/07/2016	Remaining	N	Y		0.78	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-4.0-4.5	4.0 - 4.5	5.8	5.3	JC21681-10R	JC21681R	06/07/2016	Remaining	N	Y		0.92	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-6.0-6.5	6.0 - 6.5	3.8	3.3	JC21681-11	JC21681	06/07/2016	Remaining	N	Y		< 0.36	UJ	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-8.0-8.5	8.0 - 8.5	1.8	1.3	JC21681-12R	JC21681R	06/07/2016	Remaining	N	Y		0.75	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-10.0-10.5	10.0 - 10.5	-0.2	-0.7	JC21681-5	JC21681	06/07/2016	Remaining	N	Y		1.6	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-12.0-12.5	12.0 - 12.5	-2.2	-2.7	JC21681-6R	JC21681R	06/07/2016	Remaining	N	Y		2.0	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-13.0-13.5	13.0 - 13.5	-3.2	-3.7	JC21681-7R	JC21681R	06/07/2016	Remaining	N	Y		0.82	J	
10+06	15L	CAR-PDI-FF21A	9.8	CAR-PDI-FF21A-13.5-14.0	13.5 - 14.0	-3.7	-4.2	JC21681-8	JC21681	06/07/2016	Remaining	N	Y		< 0.62	UJ	
10+07	15R	CAR-10+06-SW-E	9.3	CAR-10+06-SW-E-2.9-3.4	2.9 - 3.4	6.4	5.9	JC97212-3	JC97212	10/22/2019	Remaining	N	Y		< 0.48	UJ	
10+09	9R	P4-FF22A	9.5	P4-FF22A-1.5-2.0	1.5 - 2.0	8.0	7.5	JB83802-11R	JB83802R	12/10/2014	Remaining	N	Y		0.21	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-2.0-2.5	2.0 - 2.5	7.5	7.0	JB83802-12R	JB83802R	12/10/2014	Remaining	N	Y		0.72	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-4.0-4.5	4.0 - 4.5	5.5	5.0	JB83802-13R	JB83802R	12/10/2014	Remaining	N	Y		0.92	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-4.0-4.5X	4.0 - 4.5	5.5	5.0	JB83802-15R	JB83802R	12/10/2014	Remaining	FD	Y		0.89	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-6.0-6.5	6.0 - 6.5	3.5	3.0	JB83802-14R	JB83802R	12/10/2014	Remaining	N	Y		< 0.25	UJ	
10+09	9R	P4-FF22A	9.5	P4-FF22A-8.0-8.5	8.0 - 8.5	1.5	1.0	JB83802-16R	JB83802R	12/10/2014	Remaining	N	Y		0.27	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-10.0-10.5	10.0 - 10.5	-0.5	-1.0	JB83802-17R	JB83802R	12/10/2014	Remaining	N	Y		< 0.21	UJ	
10+09	9R	P4-FF22A	9.5	P4-FF22A-12.0-12.5	12.0 - 12.5	-2.5	-3.0	JB83802-18R	JB83802R	12/10/2014	Remaining	N	Y		0.47	J	
10+09	9R	P4-FF22A	9.5	P4-FF22A-13.5-14.0	13.5 - 14.0	-4.0	-4.5	JB83802-19R	JB83802R	12/10/2014	Remaining	N	Y		< 0.19	UJ	
10+09	9R	P4-FF22A	9.5	P4-FF22A-14.0-14.5	14.0 - 14.5	-4.5	-5.0	JB83802-20R	JB83802R	12/10/2014	Remaining	N	Y		3.1	J	
10+10	15R	CAR-10+09-SW-E	9.2	CAR-10+09-SW-E-0.8-1.3	0.8 - 1.3	8.4	7.9	JC97212-2R	JC97212	10/22/2019	Remaining	N	Y		3.3	J-	
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-0.0-0.5	0.0 - 0.5	9.1	8.6	JC21681-13R	JC21681R	06/07/2016	Remaining	N	Y		1.4	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-2.0-2.5	2.0 - 2.5	7.1	6.6	JC21681-18R	JC21681R	06/07/2016	Remaining	N	Y		2.2	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-4.0-4.5	4.0 - 4.5	5.1	4.6	JC21681-19	JC21681	06/07/2016	Remaining	N	Y		< 0.36	UJ	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-4.0-4.5X	4.0 - 4.5	5.1	4.6	JC21681-20	JC21681	06/07/2016	Remaining	FD	Y		< 0.33	UJ	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-6.0-6.5	6.0 - 6.5	3.1	2.6	JC21681-21	JC21681	06/07/2016	Remaining	N	Y		< 0.32	UJ	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-8.0-8.5	8.0 - 8.5	1.1	0.6	JC21681-22R	JC21681R	06/07/2016	Remaining	N	Y		0.60	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-10.0-10.5	10.0 - 10.5	-0.9	-1.4	JC21681-14R	JC21681R	06/07/2016	Remaining	N	Y		0.36	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-12.0-12.5	12.0 - 12.5	-2.9	-3.4	JC21681-15R	JC21681R	06/07/2016	Remaining	N	Y		0.40	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-13.0-13.5	13.0 - 13.5	-3.9	-4.4	JC21681-16R	JC21681R	06/07/2016	Remaining	N	Y		0.35	J	**S37**
NA	NA	CAR-PDI-GG21A	9.1	CAR-PDI-GG21A-13.5-14.0	13.5 - 14.0	-4.4	-4.9	JC21681-17R	JC21681R	06/07/2016	Remaining	N	Y		2.1	J	**S37**
NA	NA	EF-129	8.9	EF-129-0.5-1.0	0.5 - 1.0	8.4	7.9	JB23759-3	JB23759	12/13/2012	Remaining	N	Y		1.7		**S37**
NA	NA	EF-129	8.9	EF-129-0.5-1.0X	0.5 - 1.0	8.4	7.9	JB23759-4	JB23759	12/13/2012	Remaining	FD	Y		1.1		**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-1.0-1.5	1.0 - 1.5	8.2	7.7	JC21870-18T	JC21870T	06/09/2016	Remaining	N	Y		2.4	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-3.0-3.5	3.0 - 3.5	6.2	5.7	JC21870-25	JC21870	06/09/2016	Remaining	N	Y		0.41	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-3.0-3.5X	3.0 - 3.5	6.2	5.7	JC21870-26T	JC21870T	06/09/2016	Remaining	FD	Y		0.69	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-5.0-5.5	5.0 - 5.5	4.2	3.7	JC21870-27T	JC21870T	06/09/2016	Remaining	N	Y		0.32	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-7.0-7.5	7.0 - 7.5	2.2	1.7	JC21870-28	JC21870	06/09/2016	Remaining	N	Y		0.38	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-9.0-9.5	9.0 - 9.5	0.2	-0.3	JC21870-29	JC21870	06/09/2016	Remaining	N	Y		< 0.35	UJ	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-11.0-11.5	11.0 - 11.5	-1.8	-2.3	JC21870-19	JC21870	06/09/2016	Remaining	N	Y		0.39	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-13.0-13.5	13.0 - 13.5	-3.8	-4.3	JC21870-20	JC21870	06/09/2016	Remaining	N	Y		< 0.39	UJ	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-15.0-15.5	15.0 - 15.5	-5.8	-6.3	JC21870-21	JC21870	06/09/2016	Remaining	N	Y		0.36	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-17.0-17.5	17.0 - 17.5	-7.8	-8.3	JC21870-22	JC21870	06/09/2016	Remaining	N	Y		0.67	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-19.0-19.5	19.0 - 19.5	-9.8	-10.3	JC21870-23	JC21870	06/09/2016	Remaining	N	Y		0.51	J	**S37**
NA	NA	CAR-PDI-GG22A	9.2	CAR-PDI-GG22A-20.0-20.5	20.0 - 20.5	-10.8	-11.3	JC21870-24	JC21870	06/09/2016	Remaining	N	Y		< 0.34	UJ	**S37**
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-0.0-0.5	0.0 - 0.5	8.5	8.0	JC22160-12	JC22160	06/14/2016	Remaining	N	Y		1.2	J	**S37**
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-2.0-2.5	2.0 - 2.5	6.5	6.0	JC22160-15	JC22160	06/14/2016	Remaining	N	Y		< 0.40	UJ	**S37**
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-4.0-4.5	4.0 - 4.5	4.5	4.0	JC22160-16	JC22160	06/14/2016	Remaining	N	Y		1.0	J	**S37**
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-6.0-6.5	6.0 - 6.5	2.5	2.0	JC22160-17	JC22160	06/14/2016	Remaining	N	Y		< 0.34	UJ	**S37**
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-8.0-8.5	8.0 - 8.5	0.5	0.0	JC22160-19	JC22160	06/14/2016	Remaining	N	Y		1.0	J	**S37**

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

														Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		
Station (G1)	Offset (G2)	Location ID (G3)	Location Elevation (ft NAVD88) (G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G5, G8)	Sample End Elevation (ft NAVD88) (G5, G9)	Lab ID (G10)	Lab SDG (G10)	Date Collected (G11)	Sample Status (G12, G13)	Sample Type (G14)	Validated (Y/N) (G15)	Matrix (G16)	Result (G17, G18)	Qualifier (G19, G20)	Specific Notes
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-8.0-8.5X	8.0 - 8.5	0.5	0.0	JC22160-18	JC22160	06/14/2016	Remaining	FD	Y		< 0.34	UJ	S37
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-10.0-10.5	10.0 - 10.5	-1.5	-2.0	JC22160-13R	JC22160R	06/14/2016	Remaining	N	Y		0.84	J	S37
NA	NA	CAR-PDI-GG23A	8.5	CAR-PDI-GG23A-10.5-11.0	10.5 - 11.0	-2.0	-2.5	JC22160-14	JC22160	06/14/2016	Remaining	N	Y		0.88	J	S37
NA	NA	EF-17	9.7	EF-B17-0.5	0.5 - 1.0	9.2	8.7	460-25550-39	460255501	04/19/2011	Remaining	N	Y		3.2	J	S37
NA	NA	EF-17	9.7	EF-B17-2.0	2.0 - 2.5	7.7	7.2	460-25550-40	460255501	04/19/2011	Remaining	N	Y		10.0	J	S37
NA	NA	EF-17	9.7	EF-B17-4.0	4.0 - 4.5	5.7	5.2	460-25550-42	460255501	04/19/2011	Remaining	N	Y		3.0	J	S37
NA	NA	EF-17	9.7	EF-B17-6.0	6.0 - 6.5	3.7	3.2	460-25599-9	460255991	04/20/2011	Remaining	N	Y		< 0.65	UJ	S37
NA	NA	EF-17	9.7	EF-B17-10.0	10.0 - 10.5	-0.3	-0.8	460-25599-10	460255991	04/20/2011	Remaining	N	Y		< 0.64	UJ	S37
NA	NA	EF-17	9.7	EF-B17-12.0	12.0 - 12.5	-2.3	-2.8	460-25599-11	460255991	04/20/2011	Remaining	N	Y		< 0.64	UJ	S37
NA	NA	EF-17	9.7	EF-B17-12.0X	12.0 - 12.5	-2.3	-2.8	460-25599-12	460255991	04/20/2011	Remaining	FD	Y		< 0.63	UJ	S37
NA	NA	EF-17	9.7	EF-B17-17.0	17.0 - 17.5	-7.3	-7.8	460-25599-13	460255991	04/20/2011	Remaining	N	Y		< 1.4	UJ	S37
NA	NA	EF-17	9.7	EF-B17-22.5	22.5 - 23.0	-12.8	-13.3	460-25599-14	460255991	04/20/2011	Remaining	N	Y		< 0.97	UJ	S37

Table 5-1
Cr^{+6} Analytical Results for In-Place Soil Compared to Chromium Soil Cleanup Criterion
Carteret Avenue, 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
Cr - chromium
Cr^{+6} - hexavalent chromium
CrSCC - Chromium Soil Cleanup Criteria
El. - elevation
FD - field duplicate sample type
ft - feet
HDPE - high-density polyethylene
JCMUA - Jersey City Municipal Utilities Authority
MDL- method detection limit
mg/kg - milligrams per kilogram
N - normal sample type
NA - not applicable
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
PDI - Pre-Design Investigation
SDG - sample delivery group
µg/L - micrograms per liter
U.S. - United States
USCS - Unified Soil Classification System

MATRICES
FILL - fill
MM - meadow mat
UNDno – undisturbed native deposits – non-organic

USCS CLASSIFICATIONS
CL - clayey silt
ML - silt
PT - peat
SC - some clay
SM - silty sand
SP - poorly-graded sand

QUALIFIERS:
B - Indicates that the analyte was detected at a concentration less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.
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.
JB - The analyte concentration is greater than three times, but less than 10 times, the concentration in the associated method blank. The presence of that analyte in the sample is considered "real". The concentration is quantitatively qualified (JB) due to method blank contamination.
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. “Station” refers to a sample’s location along the excavation’s centerline, which runs the length of the center of Carteret Avenue starting from the westernmost edge of Carteret Avenue, as presented on Figure 5-1. Station values are presented in hundreds of feet. For example, station 1+50 is 150 feet along the excavation’s centerline. An entry of “NA” in this column indicates the sample is located beyond the limits of the centerline established as part of the Carteret Avenue excavation.
G2. “Offset” refers to a sample’s distance in feet 90 degrees from the excavation’s centerline in the southeasterly direction, as presented on Figure 5-1. An addition of “L” in this column indicates the sample is located to the left of the excavation’s centerline and an addition of “R” in this column indicates the sample is located to the right of the excavation’s centerline. An entry of “NA” in this column indicates the sample is located beyond the limits of the centerline established as part of the Carteret Avenue excavation.
G3. “Location ID” refers to the location name where samples were collected.
G4. “Location Elevation” refers to the pre-remediation surface elevation for samples collected from the pit bottom or sidewall, and the surface elevation of the sample location when the sample was collected via boring or test pit.
G5. Elevation vertical datum is NAVD88, in U.S. survey ft.
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.
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. “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.
G10. “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.
G11. “Date Collected” refers to the date the soil sample was collected.
G12. “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;
- "Removed" indicates the sample was removed during excavation.

G13. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 5-1.
G14. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G15. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G16. 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 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.
G17. "Result" refers to the analytical result, which is reported in mg/kg.
G18. Bold text indicates that the result exceeds the CrSCC. Non-bold text indicates that the result does not exceed the CrSCC.
G19. "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.
G20. 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. At Station 0+07, Offset 18L, the Cr^{+6} results for PDI samples P4-A`14A-14.0-14.5, P4-A`14A-16.0-16.5, and P4-A`14A-18.0-18.5 are greater than the CrSCC but are in compliance with the Chromium Policy because 1) these samples were collected from UND, 2) the UND is not commingled with CCPW, 3) these samples were collected from fine to coarse grained (SP-SM) material, 4) the Cr^{+6} results are less than 1,000 mg/kg, 5) a clean sample was collected in UND above these samples from PDI sample P4-A`14A-12.0-12.5, and 6) these samples were collected in a non-chrome fill area from El. 11.1 ft NAVD88 to the bottom of excavation as presented in the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).* The higher concentrations at deeper elevations but not shallower elevations indicate that the samples with Cr^{+6} concentrations greater than the CrSCC result from contact with impacted groundwater.

S2. At Station 0+07, Offset 18L, the Cr^{+6} result for PDI sample P4-A`14A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine to coarse grained (SP-SM) material, and 5) the Cr^{+6} result is less than 1,000 mg/kg.

S3. This sample was collected by another party. A data validation memorandum has not been identified.

S4. At Station 0+19, Offset 22R, the Cr^{+6} result for sample PPG-114-MW22BD(17.5-18.0)J46994-5 is greater than the CrSCC but is in compliance with the Chromium Policy because 1) this sample was collected from UND, 2) the UND is not commingled with CCPW, 3) the sample was collected from fine to coarse grained (SP-SM) material, 4) the Cr^{+6} result is less than 1,000 mg/kg, 5) clean samples were collected above these samples in UND from samples PPG-114-MW22BC(13.0-14.0)J46994-3 and PPG-114-MW22BCD(13.0-14.0)J46994-4, and 6) this sample was collected in a non-chrome fill area from El. 7.0 ft NAVD88 to the bottom of excavation as presented in the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).* The higher concentrations at deeper elevations but not shallower elevations indicated that the sample with a Cr^{+6} concentration greater than the CrSCC results from contact with impacted groundwater.

S5. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation of non-chrome fill from El. 11.1 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S6. At Station 0+36, Offset 17L, the Cr^{+6} result for sample P4-A14A-18.0-18.5 is greater than the CrSCC but is in compliance with the Chromium Policy because 1) this sample was collected from UND, 2) the UND is not commingled with CCPW, 3) the sample was collected from fine to coarse grained (SP-SM) material, 4) the Cr^{+6} result is less than 1,000 mg/kg, 5) clean samples were collected above these samples in UND from PDI samples P4-A14A-11.5-12.0, P4-A14A-12.0-12.5, P4-A14A-14.0-14.5, and P4-A14A-16.0-16.5, and 6) this sample was collected in a non-chrome fill area from El. 11.1 ft NAVD88 to the bottom of excavation as presented in the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*The higher concentrations at deeper elevations but not shallower elevations indicated that the sample with a Cr^{+6} concentration greater than the CrSCC results from contact with impacted groundwater.

S7. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation of non-chrome fill from El. 7.0 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S8. At Station 0+62, Offset 33R, the Cr^{+6} results for excavation sidewall samples CAR-0+60-SW-N-1-8.3-8.8 and CAR-0+60-SW-N-2-6.3-6.8, which remain in place in Site 143, are greater than the CrSCC. These samples were collected from fill material in the Carteret Avenue excavation sidewall, which sloped into Site 143. The concentrations of Cr^{+6} greater than the CrSCC at these locations result from contact with impacted groundwater because 1) this sample was collected from the saturated zone (i.e., below the groundwater elevation of 7.2 ft NAVD88 in Carteret Avenue, which was estimated as the 50th percentile groundwater elevation from 11 monitoring wells located in Carteret Avenue gauged between February 2007 and May 2018 (see Appendix A for monitoring well locations and associated data), 2) total Cr concentrations in shallow groundwater within Carteret Avenue prior to soil remediation ranged from less than detection limits to 1,460 µg/L as reported in the *Capillary Break Design Final Report (Revision 2)* (Capillary Break Report), 3) total Cr concentrations in intermediate groundwater within Carteret Avenue prior to soil remediation ranged from 140 to 1,140,000 µg/L as reported in the Capillary Break Report, 4) MM is not present within this area, 5) the Cr^{+6} concentration in post-excavation sample 143-B15A-PB2-6.7-7.2 collected in Site 143 as part of the remediation at Site 143 and removed during the Carteret Avenue excavation was below the MDL, 6) removed PDI samples 143-P3A-B15A-5.0-5.5, 143-P3A-B15A-7.0-7.5, and 143-P3A-B15A-9.0-9.5 and remaining PDI samples 143-P3A-B15A-11.0-11.5, 143-P3A-B15A-13.0-13.5, and 143-P3A-B15A-13.5-14.0 collected in Carteret Avenue had concentrations of Cr^{+6} that were less than the CrSCC, and 7) no visible CCPW was observed in the Carteret Avenue excavation sidewall along Site 143.

S9. At Station 0+96, Offset 17L, the Cr^{+6} result for PDI sample P4-C14A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine to coarse grained (SP) material, and 5) the Cr^{+6} result is less than 1,000 mg/kg.

S10. At Station 1+13, Offset 30L, the Cr^{+6} results for PDI samples 114-A4MW4VG-36-36.5 and 114-A4MW4VGD-36-36.5 are greater than the CrSCC but are in compliance with the Chromium Policy per the Method to Determine Compliance because 1) these samples were collected below MM from UND, 2) UND is not commingled with CCPW, 3) these samples were collected from greater than 20 ft bgs, 4) these samples were collected from fine grained (CL) material, 5) the Cr^{+6} results are less than 1,000 mg/kg, and 6) excavation of this sample would compromise the existing MM layer, which is less than 1-ft thick, present from El. -3.5 to -4.3 ft NAVD88.

S11. There is a 2.1 ft difference between confirmation sidewall samples CAR-EX-1+20-SW-N-1-8.5-9.0 (El. 4.4 to 3.9 ft NAVD88) and CAR-EX-1+20-SW-N-2-6.4-6.9 (El. 6.5 to 6.0 ft NAVD88) because safety and structural concerns during excavation precluded taking a sample at the designated 2.0 ft interval.

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

S12. At Station 1+27, Offset 17L, the Cr^{+6} result for PDI sample P4-D14A-16.0-16.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from MM, 2) MM is not commingled with CCPW, 3) the Cr^{+6} result is less than 1,000 mg/kg, and 4) excavation of this sample would compromise the existing 1.5-ft thick MM layer present from El. -2.9 to -4.4 ft NAVD88.

S13. At Station 1+33, Offset 27L, the Cr^{+6} result for sample MW4B (30-32)-693428 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected below MM from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine grained (SM) material, 5) the Cr^{+6} result is less than 1,000 mg/kg, and 6) excavation of this sample would compromise the existing 3-ft thick MM layer present from El. -1.3 to -4.3 ft NAVD88.

S14. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation of non-chrome fill from El. 9.8 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S15. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S16. At Station 1+58, Offset 18L, the Cr^{+6} result for PDI sample P4-E14A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected below MM from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine to coarse grained (SP-SM) material, 5) the Cr^{+6} result is less than 1,000 mg/kg, and 6) excavation of this sample would compromise the existing 2-ft thick MM layer present from El. -2.8 to -4.8 ft NAVD88.

S17. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation of non-chrome fill from El. 8.0 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S18. At Station 2+16, Offset 17L, the Cr^{+6} result for PDI sample P4-G14A-16.0-16.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from MM, 2) MM is not commingled with CCPW, 3) the Cr^{+6} result is less than 1,000 mg/kg, and 4) excavation of this sample would compromise the existing 3-ft thick MM layer present from El. -2.1 to -5.1 ft NAVD88.

S19. This sample is remaining in place in Carteret Avenue and the Cr^{+6} result is greater than the CrSCC. Compliance with the CrSCC is demonstrated through spatial averaging. The spatially weighted average Cr^{+6} concentration calculated as part of the compliance averaging evaluation is 5 mg/kg, which is compliant with the CrSCC. The calculations of the compliance averaging evaluation are included in the Technical Memorandum *Carteret Avenue Compliance Averaging for Hexavalent Chromium in Soil* (Appendix K). Additionally, institutional controls (Notice in Lieu of Deed Notice), which establish restricted use within areas of Carteret Avenue where compliance with the CrSCC is demonstrated through spatial averaging, have been implemented to provide further protectiveness.

S20. At Station 2+76, Offset 18L, the Cr^{+6} result for PDI sample P4-I14A-14.5-15.0 is greater than the CrSCC but is in compliance with the Chromium Policy because it was actually removed. Based on the sample elevation (El. -2.4 to -2.9 ft NAVD88), 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 directly above MM. The excavation field notes indicate that the fill material was removed, and this area was excavated to visually clean MM. This sample was superseded by the confirmation pit bottom sample CAR-EX-2+70-15L-15.4-15.9 (El. -2.6 to -3.1 ft NAVD88), which has a Cr^{+6} result less than the CrSCC. Also, at station 2+76, Offset 18L, PDI sample P4-I14A-14.0-14.5, which was collected just above removed PDI sample P4-I14A-14.5-15.0 from El. -1.9 to -2.5 ft NAVD88, was also removed based on the same rationale (though it did not have a Cr^{+6} result greater than the CrSCC).

S21. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation to MM, which was encountered shallower than anticipated based on observations made during the PDI field program and noted in the boring log.

S22. At Station 3+08, Offset 18L, the Cr^{+6} result for PDI sample P4-J14A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected below MM from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from medium to coarse grained (SP) material, 5) the Cr^{+6} result is less than 1,000 mg/kg, and 6) excavation of this sample would compromise the existing 3.5-ft thick MM layer present from El. -4.4 to -7.9 ft NAVD88.

S23. At Station 3+87, Offset 30L, the Cr^{+6} result for PDI sample P4-M14A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected below MM from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 3) this sample was collected from fine grained (SM) material, 4) the Cr^{+6} result is less than 1,000 mg/kg, and 5) excavation of this sample would compromise the existing 6.8-ft thick MM layer present from El. 0.1 to -6.7 ft NAVD88.

S24. At Station 4+28, Offset 16L, the Cr^{+6} result for PDI sample P4-N15A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine grained (SM) material, and 5) the Cr^{+6} result is less than 1,000 mg/kg.

S25. At Station 4+63, Offset 27R, the Cr^{+6} results for PDI samples P4-O16A-20.0-20.5 and P4-O16A-20.0-20.5X are greater than the CrSCC but are in compliance with the Chromium Policy per the Method to Determine Compliance because 1) these samples were collected below MM from UND, 2) UND is not commingled with CCPW, 3) these samples were collected from greater than 20 ft bgs, 4) these samples were collected from fine grained (ML) material, 5) the Cr^{+6} results are less than 1,000 mg/kg, and 6) excavation of these samples would compromise the existing 1-ft thick MM layer present from El. -1.9 to -2.9 ft NAVD88.

S26. At Station 7+23, Offset 30R, the Cr^{+6} result for PDI sample P4-W19A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected from MM, 2) MM is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) the Cr^{+6} result is less than 1,000 mg/kg, and 5) excavation of this sample would compromise the existing 4.5-ft thick MM layer present from El. -4.0 to -8.5 ft NAVD88.

S27. At Station 7+45, Offset 23R, the Cr^{+6} result for PDI sample P4-X19A-20.0-20.5 is greater than the CrSCC but is in compliance with the Chromium Policy per the Method to Determine Compliance because 1) this sample was collected below MM from UND, 2) UND is not commingled with CCPW, 3) this sample was collected from greater than 20 ft bgs, 4) this sample was collected from fine grained (SM-SC) material, 5) the Cr^{+6} result is less than 1,000 mg/kg, and 6) excavation of this sample would compromise the existing 2.1-ft thick MM layer present from El. -6.0 to -8.1 ft NAVD88.

S28. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation to the spring-line of the 96-inch sewer in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

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

S29. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation below the 48-inch sewer for purposes of decommissioning the sewer at the direction of JCMUA.

S30. This sample is remaining in place in Carteret Avenue and the Cr^{+6} result is greater than the CrSCC. Compliance with the CrSCC is demonstrated through spatial averaging. The spatially weighted average Cr^{+6} concentration calculated as part of the compliance averaging evaluation is 12 mg/kg, which is compliant with the CrSCC. The calculations of the compliance averaging evaluation are included in the Technical Memorandum *Carteret Avenue Compliance Averaging for Hexavalent Chromium in Soil* (Appendix K). Additionally, institutional controls (Notice in Lieu of Deed Notice), which establish restricted use within areas of Carteret Avenue where compliance with the CrSCC is demonstrated through spatial averaging, have been implemented to provide further protectiveness.

S31. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed due to excavation of non-chrome fill from El. 6.4 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S32. This sample serves as a Cr^{+6} confirmation sidewall sample and was removed due to excavation of non-chrome fill from El. 6.4 ft NAVD88 to the bottom of excavation required to create a clean corridor for utility workers in accordance with the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).*

S33. There is a 3.0 ft difference between confirmation sidewall samples CAR-9+30-SW-N-3-2.2-2.7 (El. 8.5 to 8.0 ft NAVD88) and CAR-9+30-SW-N-2-5.2-5.7 (El. 5.5 to 5.0 ft NAVD88) because safety and structural concerns during excavation precluded taking a sample at the designated 2.0 ft interval.

S34. This sample is remaining in place in the support-of-excavation offset for the Pacific Avenue buildings and the Cr^{+6} result is greater than the CrSCC. Compliance with the CrSCC is demonstrated through spatial averaging. The spatially weighted average Cr^{+6} concentration calculated as part of the compliance averaging evaluation is 12 mg/kg, which is compliant with the CrSCC. The calculations of the compliance averaging evaluation are included in the Technical Memorandum *Carteret Avenue Compliance Averaging for Hexavalent Chromium in Soil* (Appendix K). Additionally, institutional controls (Notice in Lieu of Deed Notice), which establish restricted use within areas of Carteret Avenue where compliance with the CrSCC is demonstrated through spatial averaging, have been implemented to provide further protectiveness.

S35. This sample serves as a Cr^{+6} confirmation pit bottom sample and was removed during excavation of soil required to accommodate placement of an HDPE liner beneath the sidewalk adjacent to the building in Block 21502, Lot 11. Refer to Figure 5-1B for details regarding the HDPE liner.

S36. This sample serves as a Cr^{+6} confirmation sidewall sample and was removed due to excavation sloping in the support-of-excavation offset for the Pacific Avenue buildings.

S37. Samples were collected at this location in Pacific Avenue and are being used in the evaluation of delineation of CCPW-related impacts.