

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9 mg/kg	20		
114MON24	114MON24 11.5-12.0	11.5 - 12.0	13.6	2.1	1.6	-8.1	02/28/2012	Yes	15.6	J	Removed	
114MON24	114MON24 13.5-14.0	13.5 - 14.0	13.6	0.1	-0.4	-8.1	02/28/2012	Yes	< 3.1	UJ	Removed	
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	5.0 - 5.5	12.6	7.6	7.1	3.5	11/20/2006	Yes	< 1.2	UJ	Removed	
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	9.5 - 10.0	12.6	3.1	2.6	3.5	11/20/2006	Yes	< 1.3	UJ	Remaining	
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	3.5	11/20/2006	Yes	< 1.3	UJ	Remaining	
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	3.5	11/20/2006	Yes	< 1.3	UJ	Remaining	
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	3.5	11/20/2006	Yes	26.0	J	Remaining	CrSCC Exceedance Below 96-inch Sewer Spring-Line and Not CCPW Source Material ³
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	3.5	11/20/2006	Yes	15.6	J	Remaining	
132-P3A-H15A	132-P3A-H15A-10.0-10.5	10.0 - 10.5	12.7	2.7	2.2	3.5	04/12/2013	Yes	1.0	J	Remaining	
132-P3A-H15A	132-P3A-H15A-12.0-12.5	12.0 - 12.5	12.7	0.7	0.2	3.5	04/12/2013	Yes	17.2	J	Remaining	
132-P3A-H15A	132-P3A-H15A-14.1-14.6	14.1 - 14.6	12.7	-1.4	-1.9	3.5	04/12/2013	Yes	1.1	J	Remaining	
132-P3A-H15A	132-P3A-H15A-14.6-15.1	14.6 - 15.1	12.7	-1.9	-2.4	3.5	04/12/2013	Yes	0.91	J	Remaining	
132-P3A-H15A	132-P3A-H15A-14.6-15.1X	14.6 - 15.1	12.7	-1.9	-2.4	3.5	04/12/2013	Yes	0.59	J	Remaining	
132-P3A-I15A	132-P3A-I15A-10.0-10.5	10.0 - 10.5	12.6	2.6	2.1	-1.5	04/04/2013	Yes	39.1		Removed	
132-P3A-I15A	132-P3A-I15A-12.0-12.5	12.0 - 12.5	12.6	0.6	0.1	-1.5	04/04/2013	Yes	< 0.22	U	Removed	
132-P3A-I15A	132-P3A-I15A-14.0-14.5	14.0 - 14.5	12.6	-1.4	-1.9	-1.5	04/04/2013	Yes	11.1		Remaining	
132-P3A-I15A	132-P3A-I15A-15.2-15.7	15.2 - 15.7	12.6	-2.6	-3.1	-1.5	04/04/2013	Yes	< 0.33	UJ	Remaining	
132-P3A-I15A	132-P3A-I15A-15.2-15.7X	15.2 - 15.7	12.6	-2.6	-3.1	-1.5	04/04/2013	Yes	< 0.23	U	Remaining	
132-P3A-I15A	132-P3A-I15A-15.7-16.2	15.7 - 16.2	12.6	-3.1	-3.6	-1.5	04/04/2013	Yes	0.98	J	Remaining	
132-P3A-J15A	132-P3A-J15A-12.2-12.7	12.2 - 12.7	12.5	0.3	-0.2	-7.6	04/04/2013	Yes	0.89		Removed	
132-P3A-J15A	132-P3A-J15A-14.0-14.5	14.0 - 14.5	12.5	-1.5	-2.0	-7.6	04/04/2013	Yes	0.37	J	Removed	
132-P3A-J15A	132-P3A-J15A-16.0-16.5	16.0 - 16.5	12.5	-3.5	-4.0	-7.6	04/04/2013	Yes	195		Removed	
132-P3A-J15A	132-P3A-J15A-18.2-18.7	18.2 - 18.7	12.5	-5.7	-6.2	-7.6	04/04/2013	Yes	0.27	J	Removed	
132-P3A-J15A	132-P3A-J15A-18.7-19.2	18.7 - 19.2	12.5	-6.2	-6.7	-7.6	04/04/2013	Yes	0.64	J	Removed	
132-P3A-K15A	132-P3A-K15A-14.7-15.2	14.7 - 15.2	13.0	-1.7	-2.2	-8.1	04/12/2013	Yes	< 0.33	RA	Removed	
132-P3A-K15A	132-P3A-K15A-16.5-17.0	16.5 - 17.0	13.0	-3.5	-4.0	-8.1	04/12/2013	Yes	1.6	RA	Removed	
132-P3A-K15A	132-P3A-K15A-16.5-17.0X	16.5 - 17.0	13.0	-3.5	-4.0	-8.1	04/12/2013	Yes	2.3	RA	Removed	
132-P3A-K15A	132-P3A-K15A-18.5-19.0	18.5 - 19.0	13.0	-5.5	-6.0	-8.1	04/12/2013	Yes	17.0	RA	Removed	
132-P3A-K15A	132-P3A-K15A-19.0-19.5	19.0 - 19.5	13.0	-6.0	-6.5	-8.1	04/12/2013	Yes	5.4	RA	Removed	
132-P3A-L15A	132-P3A-L15A-14.5-15.0	14.5 - 15.0	12.5	-2.0	-2.5	-8.1	04/15/2013	Yes	1.0	J	Removed	
132-P3A-L15A	132-P3A-L15A-16.5-17.0	16.5 - 17.0	12.5	-4.0	-4.5	-8.1	04/15/2013	Yes	0.89	J	Removed	
132-P3A-L15A	132-P3A-L15A-16.5-17.0X	16.5 - 17.0	12.5	-4.0	-4.5	-8.1	04/15/2013	Yes	1.4	J	Removed	
132-P3A-L15A	132-P3A-L15A-17.0-17.5	17.0 - 17.5	12.5	-4.5	-5.0	-8.1	04/15/2013	Yes	0.49	J	Removed	
133-P3C-Z20AR	133-P3C-Z20AR-4.5-5.0	4.5 - 5.0	11.0	6.5	6.0	2.5	11/25/2014	Yes	150	J	Removed	
133-P3C-Z20AR	133-P3C-Z20AR-6.5-7.0	6.5 - 7.0	11.0	4.5	4.0	2.5	11/25/2014	Yes	314	J	Removed	
133-P3C-Z20AR	133-P3C-Z20AR-8.5-9.0	8.5 - 9.0	11.0	2.5	2.0	2.5	11/25/2014	Yes	1.5	J	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-10.5-11.0	10.5 - 11.0	11.0	0.5	0.0	2.5	11/25/2014	Yes	1.4	J	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-12.5-13.0	12.5 - 13.0	11.0	-1.5	-2.0	2.5	11/25/2014	Yes	0.29	J	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-14.5-15.0	14.5 - 15.0	11.0	-3.5	-4.0	2.5	11/25/2014	Yes	0.67	J	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-16.3-16.8	16.3 - 16.8	11.0	-5.3	-5.8	2.5	11/25/2014	Yes	0.78	J	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-16.3-16.8X	16.3 - 16.8	11.0	-5.3	-5.8	2.5	11/25/2014	Yes	< 0.20	UJ	Remaining	
133-P3C-Z20AR	133-P3C-Z20AR-16.8-17.3	16.8 - 17.3	11.0	-5.8	-6.3	2.5	11/25/2014	Yes	1.8	J	Remaining	
135-B19	135-B19A (1.3-1.8)J49116-8	1.3 - 1.8	9.9	8.6	8.1	3.5	12/13/2006	Yes	< 1.2	UJ	Removed	
135-B19	135-B19B (3.3-3.8)J49116-9	2.1 - 2.6	9.9	7.8	7.3	3.5	12/13/2006	Yes	< 1.3	UJ	Removed	
135-B19	135-B19C(3.3-3.8)J49116-17	3.3 - 3.8	9.9	6.6	6.1	3.5	12/13/2006	Yes	< 1.3	UJ	Removed	
135-B19	PPG-135-B19D 5.1-5.6 796867	5.1 - 5.6	9.9	4.8	4.3	3.5	01/02/2007	Yes	< 3.48	UJ	Removed	
135-B19	PPG-135-B19E 9.4-9.9 796868	9.4 - 9.9	9.9	0.5	0.0	3.5	01/02/2007	Yes	< 3.18	UJ	Remaining	
135-B19	PPG-135-B19F 13.2-13.7 796869	13.2 - 13.7	9.9	-3.3	-3.8	3.5	01/02/2007	Yes	< 3.38	UJ	Remaining	
135-B19	PPG-135-B19G 17.2-18.2 796870	17.2 - 18.2	9.9	-7.3	-7.8	3.5	01/02/2007	Yes	< 3.82	UJ	Remaining	
135-B19	PPG-135-B19GD 17.2-18.2 796871	17.2 - 18.2	9.9	-7.3	-7.8	3.5	01/02/2007	Yes	< 3.85	UJ	Remaining	
135-B19	PPG-135-B19H 20.2-20.7 796872	20.2 - 20.7	9.9	-10.3	-10.8	3.5	01/02/2007	Yes	< 2.53	UJ	Remaining	

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										Result	Qualifier		
143-B5	PPG-143-B5A 1.0-1.5 798411	1.0 - 1.5	12.9	11.9	11.4	3.5	01/09/2007	Yes		25.2	J	Removed	
143-B5	PPG-143-B5B 2.0-2.5 798412	2.0 - 2.5	12.9	10.9	10.4	3.5	01/09/2007	Yes		< 2.37	UJ	Removed	
143-B5	PPG-143-B5C 2.9-3.4 798413	2.9 - 3.4	12.9	10.0	9.5	3.5	01/09/2007	Yes		< 2.71	UJ	Removed	
143-B5	PPG-143-B5D 3.5-4.1 798414	3.5 - 4.1	12.9	9.4	8.8	3.5	01/09/2007	Yes		< 2.31	UJ	Removed	
143-B5	PPG-143-B5E 6.5-7.0 799362	6.5 - 7.0	12.9	6.4	5.9	3.5	01/11/2007	Yes		< 2.32	UJ	Removed	
143-B5	PPG-143-B5F 8.8-9.5 799363	8.8 - 9.5	12.9	4.1	3.4	3.5	01/11/2007	Yes		< 2.61	UJ	Remaining	
143-B5	PPG-143-B5G 9.5-9.9 799364	9.5 - 9.9	12.9	3.4	3.0	3.5	01/11/2007	Yes		< 2.42	UJ	Remaining	
143-B5	PPG-143-B5H 9.9-10.6 799365	9.9 - 10.6	12.9	3.0	2.3	3.5	01/11/2007	Yes		< 2.53	UJ	Remaining	
143-B5	PPG-143-B5HDUP 9.9-10.6 799366	9.9 - 10.6	12.9	3.0	2.3	3.5	01/11/2007	Yes		< 2.48	UJ	Remaining	
143-B5	PPG-143-B5I 12.6-13.1 799367	12.6 - 13.1	12.9	0.3	-0.2	3.5	01/11/2007	Yes		< 3.14	UJ	Remaining	
143-B5	PPG-143-B5J 13.1-13.9 799368	13.1 - 13.9	12.9	-0.2	-1.0	3.5	01/11/2007	Yes		< 3.41	UJ	Remaining	
143-B5	PPG-143-B5K 17.1-17.6 799369	17.1 - 17.6	12.9	-4.2	-4.7	3.5	01/11/2007	Yes		< 2.39	UJ	Remaining	
143-DD1-B03	DD1-B03-0.5	0.5 - 1.0	12.6	12.1	11.6	3.5	12/05/2011	Yes		< 0.90	UJ	Removed	
143-DD1-B03	DD1-B03-1.5	1.5 - 2.0	12.6	11.1	10.6	3.5	12/05/2011	Yes		< 0.91	UJ	Removed	
143-P3A-A 15A	143-P3A-A 15A-17.5-18.0	17.5 - 18.0	12.4	-5.2	-5.7	11.6	04/08/2013	Yes		0.38	J	Remaining	
143-P3A-A 15A	143-P3A-A 15A-18.0-18.5	18.0 - 18.5	12.4	-5.7	-6.2	11.6	04/08/2013	Yes		0.67	J	Remaining	
143-P3A-A 15A	143-P3A-A 15A-18.0-18.5X	18.0 - 18.5	12.4	-5.7	-6.2	11.6	04/08/2013	Yes		0.80	J	Remaining	
143-P3A-A 15AR2	143-P3A-A 15A-R2-7.0-7.5	7.0 - 7.5	12.6	5.6	5.1	5.4	04/01/2014	Yes		0.29	J	Remaining	
143-P3A-A 15AR2	143-P3A-A 15A-R2-16.5-17.0	16.5 - 17.0	12.6	-3.9	-4.4	5.4	04/01/2014	Yes		0.90	J	Remaining	
143-P3A-A 15AR2	143-P3A-A 15A-R2-17.5-18.0	17.5 - 18.0	12.6	-4.9	-5.4	5.4	04/01/2014	Yes		14.6	J	Remaining	
143-P3A-A 15AR2	143-P3A-A 15A-R2-18.5-19.0	18.5 - 19.0	12.6	-5.9	-6.4	5.4	04/01/2014	Yes		2.2	J	Remaining	
143-P3A-A15A	143-P3A-A15A-0.5-1.0	0.5 - 1.0	12.8	12.3	11.8	3.5	02/24/2014	Yes		71.5	J	Removed	
143-P3A-A15A	143-P3A-A15A-2.5-3.0	2.5 - 3.0	12.8	10.3	9.8	3.5	02/24/2014	Yes		3.2	J	Removed	
143-P3A-A15A	143-P3A-A15A-2.5-3.0X	2.5 - 3.0	12.8	10.3	9.8	3.5	02/24/2014	Yes		2.5	J	Removed	
143-P3A-A15A	143-P3A-A15A-4.5-5.0	4.5 - 5.0	12.8	8.3	7.8	3.5	02/24/2014	Yes		23.6	J	Removed	
143-P3A-A15A	143-P3A-A15A-5.0-5.5	5.0 - 5.5	12.8	7.8	7.3	3.5	04/05/2013	Yes		1.5	J	Removed	
143-P3A-A15A	143-P3A-A15A-7.0-7.5	7.0 - 7.5	12.8	5.8	5.3	3.5	04/05/2013	Yes		0.23	J	Removed	
143-P3A-A15A	143-P3A-A15A-7.0-7.5X	7.0 - 7.5	12.8	5.8	5.3	3.5	04/05/2013	Yes		< 0.14	UJ	Removed	
143-P3A-A15A	143-P3A-A15A-9.0-9.5	9.0 - 9.5	12.8	3.8	3.3	3.5	04/05/2013	Yes		0.87	J	Remaining	
143-P3A-A15A	143-P3A-A15A-11.0-11.5	11.0 - 11.5	12.8	1.8	1.3	3.5	04/05/2013	Yes		0.54	J	Remaining	
143-P3A-A15A	143-P3A-A15A-13.0-13.5	13.0 - 13.5	12.8	-0.2	-0.7	3.5	04/05/2013	Yes		0.27	J	Remaining	
143-P3A-A15A	143-P3A-A15A-15.0-15.5	15.0 - 15.5	12.8	-2.2	-2.7	3.5	04/05/2013	Yes		0.79	J	Remaining	
143-P3A-A15A	143-P3A-A15A-17.0-17.5	17.0 - 17.5	12.8	-4.2	-4.7	3.5	04/05/2013	Yes		1.0	J	Remaining	
143-P3A-A15A	143-P3A-A15A-18.0-18.5	18.0 - 18.5	12.8	-5.2	-5.7	3.5	04/05/2013	Yes		0.30	J	Remaining	
143-P3A-A15A	143-P3A-A15A-18.5-19.0	18.5 - 19.0	12.8	-5.7	-6.2	3.5	04/05/2013	Yes		4.4	J	Remaining	
143-P3A-B15A	143-P3A-B15A-5.0-5.5	5.0 - 5.5	12.8	7.8	7.3	3.5	04/05/2013	Yes		1.9	J	Removed	
143-P3A-B15A	143-P3A-B15A-7.0-7.5	7.0 - 7.5	12.8	5.8	5.3	3.5	04/05/2013	Yes		< 0.14	UJ	Removed	
143-P3A-B15A	143-P3A-B15A-9.0-9.5	9.0 - 9.5	12.8	3.8	3.3	3.5	04/05/2013	Yes		< 0.15	UJ	Remaining	
143-P3A-B15A	143-P3A-B15A-11.0-11.5	11.0 - 11.5	12.8	1.8	1.3	3.5	04/05/2013	Yes		< 0.15	UJ	Remaining	
143-P3A-B15A	143-P3A-B15A-13.0-13.5	13.0 - 13.5	12.8	-0.2	-0.7	3.5	04/05/2013	Yes		0.18	J	Remaining	
143-P3A-B15A	143-P3A-B15A-13.5-14.0	13.5 - 14.0	12.8	-0.7	-1.2	3.5	04/05/2013	Yes		0.56	J	Remaining	
143-P3A-C15A	143-P3A-C15A-5.0-5.5	5.0 - 5.5	12.7	7.7	7.2	3.5	04/10/2013	Yes		2.2	RA	Removed	
143-P3A-C15A	143-P3A-C15A-7.0-7.5	7.0 - 7.5	12.7	5.7	5.2	3.5	04/10/2013	Yes		1.1	RA	Removed	
143-P3A-C15A	143-P3A-C15A-9.0-9.5	9.0 - 9.5	12.7	3.7	3.2	3.5	04/10/2013	Yes		< 0.26	RA	Remaining	
143-P3A-C15A	143-P3A-C15A-11.0-11.5	11.0 - 11.5	12.7	1.7	1.2	3.5	04/10/2013	Yes		< 0.27	RA	Remaining	
143-P3A-C15A	143-P3A-C15A-12.3-12.8	12.3 - 12.8	12.7	0.4	-0.1	3.5	04/10/2013	Yes		< 0.26	RA	Remaining	
143-P3A-C15A	143-P3A-C15A-12.8-13.3	12.8 - 13.3	12.7	-0.1	-0.6	3.5	04/10/2013	Yes		< 0.32	RA	Remaining	
143-P3A-E15A	143-P3A-E15A-2.0-2.5	2.0 - 2.5	12.6	10.6	10.1	3.5	05/30/2013	Yes		1.2	RA	Removed	
143-P3A-E15A	143-P3A-E15A-4.0-4.5	4.0 - 4.5	12.6	8.6	8.1	3.5	05/30/2013	Yes		2.3	RA	Removed	
143-P3A-E15A	143-P3A-E15A-4.0-4.5X	4.0 - 4.5	12.6	8.6	8.1	3.5	05/30/2013	Yes		0.70	RA	Removed	
143-P3A-E15A	143-P3A-E15A-5.0-5.5	5.0 - 5.5	12.6	7.6	7.1	3.5	04/09/2013	Yes		< 0.14	UJ	Removed	
143-P3A-E15A	143-P3A-E15A-7.0-7.5	7.0 - 7.5	12.6	5.6	5.1	3.5	04/09/2013	Yes		< 0.15	UJ	Removed	
143-P3A-E15A	143-P3A-E15A-9.0-9.5	9.0 - 9.5	12.6	3.6	3.1	3.5	04/09/2013	Yes		< 0.16	UJ	Remaining	
143-P3A-E15A	143-P3A-E15A-9.0-9.5X	9.0 - 9.5	12.6	3.6	3.1	3.5	04/09/2013	Yes		< 0.16	UJ	Remaining	
143-P3A-E15A	143-P3A-E15A-11.0-11.5	11.0 - 11.5	12.6	1.6	1.1	3.5	04/09/2013	Yes		< 0.15	UJ	Remaining	
143-P3A-E15A	143-P3A-E15A-13.0-13.5	13.0 - 13.5	12.6	-0.4	-0.9	3.5	04/09/2013	Yes		< 0.15	UJ	Remaining	
143-P3A-E15A	143-P3A-E15A-14.1-14.6	14.1 - 14.6	12.6	-1.5	-2.0	3.5	04/09/2013	Yes		< 0.18	UJ	Remaining	
143-P3A-E15A	143-P3A-E15A-14.6-15.1	14.6 - 15.1	12.6	-2.0	-2.5	3.5	04/09/2013	Yes		1.1	J	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9 mg/kg	20		
									Result	Qualifier		
143-P3A-F15A	143-P3A-F15A-4.0-4.5	4.0 - 4.5	12.8	8.8	8.3	3.5	05/30/2013	Yes	1.1	RA	Removed	
143-P3A-F15A	143-P3A-F15A-5.0-5.5	5.0 - 5.5	12.8	7.8	7.3	3.5	04/11/2013	Yes	< 0.14	UJ	Removed	
143-P3A-F15A	143-P3A-F15A-7.0-7.5	7.0 - 7.5	12.8	5.8	5.3	3.5	04/11/2013	Yes	< 0.18	UJ	Removed	
143-P3A-F15A	143-P3A-F15A-7.0-7.5X	7.0 - 7.5	12.8	5.8	5.3	3.5	04/11/2013	Yes	< 0.16	UJ	Removed	
143-P3A-F15A	143-P3A-F15A-9.0-9.5	9.0 - 9.5	12.8	3.8	3.3	3.5	04/11/2013	Yes	0.47	J	Remaining	
143-P3A-F15A	143-P3A-F15A-11.0-11.5	11.0 - 11.5	12.8	1.8	1.3	3.5	04/11/2013	Yes	< 0.34	UJ	Remaining	
143-P3A-F15A	143-P3A-F15A-11.5-12.0	11.5 - 12.0	12.8	1.3	0.8	3.5	04/11/2013	Yes	0.24	J	Remaining	
143-P3A-G15A	143-P3A-G15A-5.0-5.5	5.0 - 5.5	11.8	6.8	6.3	3.5	04/09/2013	Yes	10.4	J	Removed	
143-P3A-G15A	143-P3A-G15A-7.0-7.5	7.0 - 7.5	11.8	4.8	4.3	3.5	04/09/2013	Yes	47.3	J	Removed	
143-P3A-G15A	143-P3A-G15A-9.0-9.5	9.0 - 9.5	11.8	2.8	2.3	3.5	04/10/2013	Yes	< 0.30	RA	Remaining	
143-P3A-G15A	143-P3A-G15A-11.0-11.5	11.0 - 11.5	11.8	0.8	0.3	3.5	04/10/2013	Yes	< 0.27	RA	Remaining	
143-P3A-G15A	143-P3A-G15A-12.0-12.5	12.0 - 12.5	11.8	-0.2	-0.7	3.5	04/10/2013	Yes	< 0.29	RA	Remaining	
143-P3A-G15A	143-P3A-G15A-12.0-12.5X	12.0 - 12.5	11.8	-0.2	-0.7	3.5	04/10/2013	Yes	< 0.28	RA	Remaining	
143-P3A-G15A	143-P3A-G15A-12.5-13.0	12.5 - 13.0	11.8	-0.7	-1.2	3.5	04/10/2013	Yes	0.66	RA	Remaining	
A4MW4V	114-A4MW4VB10-10.5	10.0 - 10.5	12.5	2.5	2.0	3.5	10/03/2005	Yes	< 1.2	UJ	Remaining	
A4MW4V	114-A4MW4VG-36-36.5	36.0 - 36.5	12.5	-23.5	-24.0	3.5	10/03/2005	Yes	34.0	J	Remaining	CrSCC Exceedance In Compliance ⁴
A4MW4V	114-A4MW4VD-36-36	36.0 - 36.5	12.5	-23.5	-24.0	3.5	10/03/2005	Yes	30.2	J	Remaining	CrSCC Exceedance In Compliance ⁴
A4MW4V	114-A4MW4-VH-37.4-37	37.4 - 37.9	12.5	-24.9	-25.4	3.5	10/03/2005	Yes	< 1.2	UJ	Remaining	
B4S	B4S(0.5-1)	0.5 - 1.0	12.4	11.9	11.4	2.7	12/02/2003	Yes	77.9		Removed	
B4S	B4S(5.5-6)	5.5 - 6.0	12.4	6.9	6.4	2.7	12/02/2003	Yes	248		Removed	
B4S	B4S(9.5-10)	9.5 - 10.0	12.4	2.9	2.4	2.7	12/02/2003	Yes	< 4.85	U	Remaining	
B4S	B4S(13.5-14)	13.5 - 14.0	12.4	-1.1	-1.6	2.7	12/02/2003	Yes	< 4.88	U	Remaining	
B4S	B4S(15.5-16)	15.5 - 16.0	12.4	-3.1	-3.6	2.7	12/02/2003	Yes	< 7.49	U	Remaining	
C3	C3S0.5-1	0.5 - 1.0	12.5	12.0	11.5	-8.1	08/27/2003	Yes	112		Removed	
C3	C3S1.5-2	1.5 - 2.0	12.5	11.0	10.5	-8.1	08/27/2003	Yes	67.2		Removed	
C3	C3S11-11.5	11.0 - 11.5	12.5	1.5	1.0	-8.1	08/27/2003	Yes	13900		Removed	
C3	C3S15-15.5	15.0 - 15.5	12.5	-2.5	-3.0	-8.1	08/27/2003	Yes	< 10.6	U	Removed	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	0.5 - 1.0	10.9	10.4	9.9	3.5	06/13/2016	Yes	29.8		Removed	
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	2.0 - 2.5	10.9	8.9	8.4	3.5	06/13/2016	Yes	65.2		Removed	
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	4.0 - 4.5	10.9	6.9	6.4	3.5	06/13/2016	Yes	0.76		Removed	
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	6.0 - 6.5	10.9	4.9	4.4	3.5	06/13/2016	Yes	0.58		Removed	
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	8.0 - 8.5	10.9	2.9	2.4	3.5	06/13/2016	Yes	< 0.33	U	Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	10.0 - 10.5	10.9	0.9	0.4	3.5	06/13/2016	Yes	0.77		Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	10.0 - 10.5	10.9	0.9	0.4	3.5	06/13/2016	Yes	< 0.49	U	Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	12.0 - 12.5	10.9	-1.1	-1.6	3.5	06/13/2016	Yes	< 0.33	U	Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	14.0 - 14.5	10.9	-3.1	-3.6	3.5	06/13/2016	Yes	< 0.32	U	Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	14.7 - 15.2	10.9	-3.8	-4.3	3.5	06/13/2016	Yes	< 0.33	U	Remaining	
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	15.2 - 15.7	10.9	-4.3	-4.8	3.5	06/13/2016	Yes	< 0.60	UJ	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-1.0-1.5	1.0 - 1.5	10.7	9.7	9.2	3.5	06/09/2016	Yes	5.1	J	Removed	
CAR-PDI-AA20A	CAR-PDI-AA20A-2.0-2.5	2.0 - 2.5	10.7	8.7	8.2	3.5	06/09/2016	Yes	1.3	J	Removed	
CAR-PDI-AA20A	CAR-PDI-AA20A-4.0-4.5	4.0 - 4.5	10.7	6.7	6.2	3.5	06/09/2016	Yes	< 0.68	UJ	Removed	
CAR-PDI-AA20A	CAR-PDI-AA20A-4.0-4.5X	4.0 - 4.5	10.7	6.7	6.2	3.5	06/09/2016	Yes	10.6	J	Removed	
CAR-PDI-AA20A	CAR-PDI-AA20A-6.0-6.5	6.0 - 6.5	10.7	4.7	4.2	3.5	06/09/2016	Yes	47.3	J	Removed	
CAR-PDI-AA20A	CAR-PDI-AA20A-8.0-8.5	8.0 - 8.5	10.7	2.7	2.2	3.5	06/09/2016	Yes	1.1	J	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-10.0-10.5	10.0 - 10.5	10.7	0.7	0.2	3.5	06/09/2016	Yes	0.68	J	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-12.0-12.5	12.0 - 12.5	10.7	-1.3	-1.8	3.5	06/09/2016	Yes	0.52	J	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-14.0-14.5	14.0 - 14.5	10.7	-3.3	-3.8	3.5	06/09/2016	Yes	0.83	J	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-15.0-15.5	15.0 - 15.5	10.7	-4.3	-4.8	3.5	06/09/2016	Yes	< 0.32	UJ	Remaining	
CAR-PDI-AA20A	CAR-PDI-AA20A-15.5-16.0	15.5 - 16.0	10.7	-4.8	-5.3	3.5	06/09/2016	Yes	2.3	J	Remaining	
CAR-PDI-BB20A	CAR-PDI-BB20A-10.0-10.5	10.0 - 10.5	10.7	0.7	0.2	3.5	06/10/2016	Yes	0.41	J	Remaining	
CAR-PDI-CC20A	CAR-PDI-CC20A-10.0-10.5	10.0 - 10.5	10.1	0.1	-0.4	3.5	06/10/2016	Yes	0.56	J	Remaining	
CAR-PDI-CC20A	CAR-PDI-CC20A-10.0-10.5X	10.0 - 10.5	10.1	0.1	-0.4	3.5	06/10/2016	Yes	0.38	J	Remaining	
CAR-PDI-CC20A	CAR-PDI-CC20A-12.0-12.5	12.0 - 12.5	10.1	-1.9	-2.4	3.5	06/10/2016	Yes	0.54	J	Remaining	
CAR-PDI-CC20A	CAR-PDI-CC20A-12.5-13.0	12.5 - 13.0	10.1	-2.4	-2.9	3.5	06/10/2016	Yes	1.5	J	Remaining	
CAR-PDI-CC20A	CAR-PDI-CC20A-13.0-13.5	13.0 - 13.5	10.1	-2.9	-3.4	3.5	06/10/2016	Yes	1.1	J	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg	20		
									Result	Qualifier		
CAR-PDI-CC21A	CAR-PDI-CC21A-2.0-2.5	2.0 - 2.5	10.7	8.7	8.2	3.5	06/09/2016	Yes	0.50	J	Removed	
CAR-PDI-CC21A	CAR-PDI-CC21A-4.0-4.5	4.0 - 4.5	10.7	6.7	6.2	3.5	06/09/2016	Yes	0.53	J	Removed	
CAR-PDI-CC21A	CAR-PDI-CC21A-8.0-8.5	8.0 - 8.5	10.7	2.7	2.2	3.5	06/09/2016	Yes	0.51	J	Remaining	
CAR-PDI-CC21A	CAR-PDI-CC21A-11.0-11.5	11.0 - 11.5	10.7	-0.3	-0.8	3.5	06/09/2016	Yes	0.48	J	Remaining	
CAR-PDI-CC21A	CAR-PDI-CC21A-11.5-12.0	11.5 - 12.0	10.7	-0.8	-1.3	3.5	06/09/2016	Yes	1.8	J	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-4.0-4.5	4.0 - 4.5	10.7	6.7	6.2	10.7	06/13/2016	Yes	1.3	J	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-6.0-6.5	6.0 - 6.5	10.7	4.7	4.2	10.7	06/13/2016	Yes	3.1	J	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-8.0-8.5	8.0 - 8.5	10.7	2.7	2.2	10.7	06/13/2016	Yes	0.62	J	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-10.0-10.5	10.0 - 10.5	10.7	0.7	0.2	10.7	06/13/2016	Yes	< 0.33	U	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-12.0-12.5	12.0 - 12.5	10.7	-1.3	-1.8	10.7	06/13/2016	Yes	< 0.32	U	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-12.5-13.0	12.5 - 13.0	10.7	-1.8	-2.3	10.7	06/13/2016	Yes	0.45	J	Remaining	
CAR-PDI-DD20A	CAR-PDI-DD20A-13.0-13.5	13.0 - 13.5	10.7	-2.3	-2.8	10.7	06/13/2016	Yes	3.4	J	Remaining	
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	1.5 - 2.0	10.7	9.2	8.7	3.5	06/13/2016	Yes	1.0	J	Removed	
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	3.5 - 4.0	10.7	7.2	6.7	3.5	06/13/2016	Yes	1.2	J	Removed	
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	5.5 - 6.0	10.7	5.2	4.7	3.5	06/13/2016	Yes	16.4	J	Removed	
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	7.5 - 8.0	10.7	3.2	2.7	3.5	06/13/2016	Yes	< 0.61	UJ	Remaining	
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	9.5 - 10.0	10.7	1.2	0.7	3.5	06/13/2016	Yes	0.54	J	Remaining	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	11.5 - 12.0	10.7	-0.8	-1.3	3.5	06/13/2016	Yes	1.5	J	Remaining	
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	13.5 - 14.0	10.7	-2.8	-3.3	3.5	06/13/2016	Yes	0.58	J	Remaining	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	14.0 - 14.5	10.7	-3.3	-3.8	3.5	06/13/2016	Yes	1.4	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-0.3-0.8	0.3 - 0.8	10.7	10.3	9.8	10.7	06/14/2016	Yes	5.2	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-2.0-2.5	2.0 - 2.5	10.7	8.7	8.2	10.7	06/14/2016	Yes	7.6	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-4.0-4.5	4.0 - 4.5	10.7	6.7	6.2	10.7	06/14/2016	Yes	0.49	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-6.0-6.5	6.0 - 6.5	10.7	4.7	4.2	10.7	06/14/2016	Yes	0.47	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-8.0-8.5	8.0 - 8.5	10.7	2.7	2.2	10.7	06/14/2016	Yes	< 0.54	UJ	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-10.0-10.5	10.0 - 10.5	10.7	0.7	0.2	10.7	06/14/2016	Yes	< 0.34	UJ	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-12.0-12.5	12.0 - 12.5	10.7	-1.3	-1.8	10.7	06/14/2016	Yes	0.39	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-14.0-14.5	14.0 - 14.5	10.7	-3.3	-3.8	10.7	06/14/2016	Yes	< 0.34	UJ	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-15.0-15.5	15.0 - 15.5	10.7	-4.3	-4.8	10.7	06/14/2016	Yes	0.88	J	Remaining	
CAR-PDI-EE20A	CAR-PDI-EE20A-15.5-16.0	15.5 - 16.0	10.7	-4.8	-5.3	10.7	06/14/2016	Yes	5.3	J	Remaining	
CAR-PDI-EE21A	CAR-PDI-EE21A-10.5-11.0	10.5 - 11.0	10.4	-0.1	-0.6	4.9	06/07/2016	Yes	1.9	J	Remaining	
CAR-PDI-EE21A	CAR-PDI-EE21A-11.0-11.5	11.0 - 11.5	10.4	-0.6	-1.1	4.9	06/07/2016	Yes	2.2	J	Remaining	
CAR-PDI-EE22A	CAR-PDI-EE22A-7.0-7.5	7.0 - 7.5	9.8	2.8	2.3	3.5	06/10/2016	Yes	< 0.41	UJ	Remaining	
CAR-PDI-EE22A	CAR-PDI-EE22A-11.0-11.5	11.0 - 11.5	9.8	-1.2	-1.7	3.5	06/10/2016	Yes	1.0	J	Remaining	
CAR-PDI-EE22A	CAR-PDI-EE22A-12.7-13.2	12.7 - 13.2	9.8	-2.9	-3.4	3.5	06/10/2016	Yes	< 0.32	UJ	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-0.7-1.2	0.7 - 1.2	9.8	9.1	8.6	9.8	06/07/2016	Yes	8.7	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-2.0-2.5	2.0 - 2.5	9.8	7.8	7.3	9.8	06/07/2016	Yes	0.78	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-4.0-4.5	4.0 - 4.5	9.8	5.8	5.3	9.8	06/07/2016	Yes	0.92	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-6.0-6.5	6.0 - 6.5	9.8	3.8	3.3	9.8	06/07/2016	Yes	< 0.36	UJ	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-8.0-8.5	8.0 - 8.5	9.8	1.8	1.3	9.8	06/07/2016	Yes	0.75	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-10.0-10.5	10.0 - 10.5	9.8	-0.2	-0.7	9.8	06/07/2016	Yes	1.6	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-12.0-12.5	12.0 - 12.5	9.8	-2.2	-2.7	9.8	06/07/2016	Yes	2.0	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-13.0-13.5	13.0 - 13.5	9.8	-3.2	-3.7	9.8	06/07/2016	Yes	0.82	J	Remaining	
CAR-PDI-FF21A	CAR-PDI-FF21A-13.5-14.0	13.5 - 14.0	9.8	-3.7	-4.2	9.8	06/07/2016	Yes	< 0.62	UJ	Remaining	
CAR-PDI-X18A	CAR-PDI-X18A-10.0-10.5	10.0 - 10.5	11.8	1.8	1.3	-6.0	06/15/2016	Yes	3430	J	Removed	
CAR-PDI-X18A	CAR-PDI-X18A-12.0-12.5	12.0 - 12.5	11.8	-0.2	-0.7	-6.0	06/15/2016	Yes	166	J	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-10.0-10.5	10.0 - 10.5	11.8	1.8	1.3	-4.8	06/15/2016	Yes	535	J	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-12.0-12.5	12.0 - 12.5	11.8	-0.2	-0.7	-4.8	06/15/2016	Yes	0.67	J	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-14.0-14.5	14.0 - 14.5	11.8	-2.2	-2.7	-4.8	06/15/2016	Yes	1.1	J	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-16.0-16.5	16.0 - 16.5	11.8	-4.2	-4.7	-4.8	06/15/2016	Yes	< 0.34	UJ	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-16.0-16.5X	16.0 - 16.5	11.8	-4.2	-4.7	-4.8	06/15/2016	Yes	0.97	J	Removed	
CAR-PDI-X19A	CAR-PDI-X19A-17.5-18.0	17.5 - 18.0	11.8	-5.7	-6.2	-4.8	06/15/2016	Yes	< 0.32	UJ	Remaining	
CAR-PDI-X19A	CAR-PDI-X19A-18.0-18.5	18.0 - 18.5	11.8	-6.2	-6.7	-4.8	06/15/2016	Yes	1.3	J	Remaining	
CAR-PDI-Y19A	CAR-PDI-Y19A-17.5-18.0	17.5 - 18.0	11.6	-5.9	-6.4	-1.0	06/15/2016	Yes	0.55	J	Remaining	
CAR-PDI-Y19A	CAR-PDI-Y19A-18.0-18.5	18.0 - 18.5	11.6	-6.4	-6.9	-1.0	06/15/2016	Yes	2.2	J	Remaining	
EF-100	EF-B100-0.5-1.0	0.5 - 1.0	10.6	10.1	9.6	10.6	09/04/2012	Yes	21.8	J	Remaining	CrSCC Exceedance Inaccessible ³
EF-100	EF-B100-2.5-3.0	2.5 - 3.0	10.6	8.1	7.6	10.6	09/04/2012	Yes	0.54	J	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Excavation of at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Result	Qualifier	Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9	mg/kg 20				
EF-49	EF-B49-0.5	0.5 - 1.0	10.2	9.7	9.2	3.5	05/24/2011	Yes		13.6			Removed	
EF-49	EF-B49-11.0	11.0 - 11.5	10.2	-0.8	-1.3	3.5	05/25/2011	Yes		< 0.84	UJ		Remaining	
EF-93	EF-B093-1.0-1.5	1.0 - 1.5	11.8	10.8	10.3	-2.0	09/04/2012	Yes		5730	J		Removed	
EF-93	EF-B093-4.0-4.5	4.0 - 4.5	11.8	7.8	7.3	-2.0	09/04/2012	Yes		5760	J		Removed	
EF-93	EF-B093-6.0-6.5	6.0 - 6.5	11.8	5.8	5.3	-2.0	09/05/2012	Yes		13300	J		Removed	
EF-93	EF-B093-9.0-9.5	9.0 - 9.5	11.8	2.8	2.3	-2.0	09/05/2012	Yes		109	J		Removed	
EF-93	EF-B093-13.0-13.5	13.0 - 13.5	11.8	-1.2	-1.7	-2.0	09/05/2012	Yes		8440	J		Removed	
EF-99	EF-B099-0.5-1.0	0.5 - 1.0	10.8	10.3	9.8	10.8	09/04/2012	Yes		19.6	J		Remaining	
EF-99	EF-B099-2.5-3.0	2.5 - 3.0	10.8	8.3	7.8	10.8	09/04/2012	Yes		7.2	J		Remaining	
HSD-PDI-BB19A	HSD-PDI-BB19A-0.2-0.7	0.2 - 0.7	10.4	10.2	9.7	3.5	06/03/2016	Yes		52.5	J		Removed	
HSD-PDI-BB19A	HSD-PDI-BB19A-2.0-2.5	2.0 - 2.5	10.4	8.4	7.9	3.5	06/03/2016	Yes		46.9	J		Removed	
HSD-PDI-BB19A	HSD-PDI-BB19A-4.0-4.5	4.0 - 4.5	10.4	6.4	5.9	3.5	06/03/2016	Yes		< 0.13	U		Removed	
HSD-PDI-BB19A	HSD-PDI-BB19A-6.0-6.5	6.0 - 6.5	10.4	4.4	3.9	3.5	06/03/2016	Yes		0.58	J		Removed	
HSD-PDI-BB19A	HSD-PDI-BB19A-8.0-8.5	8.0 - 8.5	10.4	2.4	1.9	3.5	06/03/2016	Yes		0.67	J		Remaining	
HSD-PDI-BB19A	HSD-PDI-BB19A-10.0-10.5	10.0 - 10.5	10.4	0.4	-0.1	3.5	06/03/2016	Yes		< 0.14	U		Remaining	
HSD-PDI-BB19A	HSD-PDI-BB19A-12.0-12.5	12.0 - 12.5	10.4	-1.6	-2.1	3.5	06/03/2016	Yes		0.56			Remaining	
HSD-PDI-BB19A	HSD-PDI-BB19A-13.5-14.0	13.5 - 14.0	10.4	-3.1	-3.6	3.5	06/03/2016	Yes		0.51			Remaining	
HSD-PDI-BB19A	HSD-PDI-BB19A-14.0-14.5	14.0 - 14.5	10.4	-3.6	-4.1	3.5	06/03/2016	Yes		< 0.69	UJ		Remaining	
MW4A	MW4A(2-4)	2.0 - 4.0	12.8	10.8	8.8	2.7	11/18/2003	Yes		< 4.71	UJ		Removed	
MW4A	MW4A(12-14)	12.0 - 14.0	12.8	0.8	2.7	2.7	11/18/2003	Yes		< 4.94	UJ		Remaining	
MW4B	MW4B (30-32)-693428	30.0 - 32.0	12.7	-17.3	-19.3	2.7	12/03/2003	Yes		360			Remaining	CrSCC Exceedance In Compliance ⁴
OSB-10	OSB-10A(1-1.5)20060720	1.0 - 1.5	12.5	11.5	11.0	3.5	07/20/2006	Yes		14.5			Removed	
OSB-10	OSB-10B(3.1-3.6)20060720	3.1 - 3.6	12.5	9.4	8.9	3.5	07/20/2006	Yes		< 1.8	U		Removed	
OSB-10	OSB-10C(4.6-5.1)20060720	4.6 - 5.1	12.5	7.9	7.4	3.5	07/20/2006	Yes		< 1.3	U		Removed	
OSB-12	OSB-12A(1-1.5)20060719	1.0 - 1.5	12.8	11.8	11.3	-8.1	07/19/2006	Yes		2780			Removed	
OSB-12	OSB-12B(4.2-4.7)20060719	4.2 - 4.7	12.8	8.6	8.1	-8.1	07/19/2006	Yes		1420			Removed	
OSB-13	OSB-13A(1-1.5)20060720	1.0 - 1.5	12.6	11.6	11.1	-2.2	07/20/2006	Yes		35.9			Removed	
OSB-13	OSB-13B(2-2.5)20060720	2.0 - 2.5	12.6	10.6	10.1	-2.2	07/20/2006	Yes		54.6			Removed	
OSB-15	OSB-15A(1.1-1.6)20060719	1.1 - 1.6	12.1	11.0	10.5	-1.5	07/19/2006	Yes		1.4			Removed	
OSB-15	OSB-15B(4.3-4.8)20060719	4.3 - 4.8	12.1	7.8	7.3	-1.5	07/19/2006	Yes		< 1.2	U		Removed	
OSB-17	OSB-17A(0.9-1.4)20060719	0.9 - 1.4	12.1	11.2	10.7	-2.6	07/19/2006	Yes		2.6			Removed	
OSB-17	OSB-17B(4.2-4.7)20060719	4.2 - 4.7	12.1	7.9	7.4	-2.6	07/19/2006	Yes		2.7			Removed	
OSB-19	OSB-19A(0.9-1.4)20060718	0.9 - 1.4	11.7	10.8	10.3	-2.0	07/18/2006	Yes		1920	J		Removed	
OSB-19	OSB-19D(9.2-9.7)20060807	9.2 - 9.7	11.7	2.5	2.0	-2.0	08/07/2006	Yes		2.2	J		Removed	
OSB-19	OSB-19E(10.8-11.3)20060807	10.8 - 11.3	11.7	0.9	0.4	-2.0	08/07/2006	Yes		< 1.8	UJ		Removed	
OSB-19	OSB-19F(13.5-14.0)20060807	13.5 - 14.0	11.7	-1.8	-2.3	-2.0	08/07/2006	Yes		< 2.6	UJ		Remaining	
OSB-19	OSB-19FD(13.5-14.0)20060807	13.5 - 14.0	11.7	-1.8	-2.3	-2.0	08/07/2006	Yes		< 2.4	UJ		Remaining	
OSB-21	OSB-21A(1.15-1.65)20060718	1.1 - 1.6	11.5	10.4	9.9	-3.0	07/18/2006	Yes		23.0	J		Removed	
OSB-21	OSB-21B(2.7-3.2)20060718	2.7 - 3.2	11.5	8.8	8.3	-3.0	07/18/2006	Yes		18.4	J		Removed	
OSB-21	OSB-21C(13.3-13.8)20060807	13.3 - 13.8	11.5	-1.8	-2.3	-3.0	08/07/2006	Yes		< 1.3	UJ		Removed	
OSB-22	OSB-22A(1.05-1.55)20060718	1.0 - 1.5	10.9	9.8	9.3	2.5	07/18/2006	Yes		12.6	J		Removed	
OSB-22	OSB-22B(4.0-4.5)20060718	4.0 - 4.5	10.9	6.9	6.4	2.5	07/18/2006	Yes		17.2	J		Removed	
OSB-22	OSB-22BD(4.0-4.5)20060718	4.0 - 4.5	10.9	6.9	6.4	2.5	07/18/2006	Yes		12.5	J		Removed	
OSB-22	OSB-22C(11-12)20060725	11.0 - 12.0	10.9	-0.1	-1.1	2.5	07/25/2006	Yes		< 1.3	UJ		Remaining	
OSB-22	OSB-22D(16.8-17.3)20060725	16.8 - 17.3	10.9	-5.9	-6.4	2.5	07/25/2006	Yes			R		Remaining	
OSB-9	OSB-9A(1-1.5)20060721	1.0 - 1.5	12.9	11.9	11.4	2.7	07/21/2006	Yes		2.9			Removed	
OSB-9	OSB-9B(2.3-2.8)20060721	2.3 - 2.8	12.9	10.6	10.1	2.7	07/21/2006	Yes		< 1.1	U		Removed	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg	20		
									Result	Qualifier		
P4-A-14A	P4-A-14A-9.5-10.0	9.5 - 10.0	11.3	1.8	1.3	11.6	03/18/2014	Yes	0.15	J	Remaining	
P4-A-14A	P4-A-14A-10.0-10.5	10.0 - 10.5	11.3	1.3	0.8	11.6	03/18/2014	Yes	0.37	J	Remaining	
P4-A-14A	P4-A-14A-12.0-12.5	12.0 - 12.5	11.3	-0.7	-1.2	11.6	03/10/2014	Yes	5.1	J	Remaining	
P4-A-14A	P4-A-14A-14.0-14.5	14.0 - 14.5	11.3	-2.7	-3.2	11.6	03/10/2014	Yes	31.4	J	Remaining	CrSCC Exceedance Inaccessible ⁶
P4-A-14A	P4-A-14A-16.0-16.5	16.0 - 16.5	11.3	-4.7	-5.2	11.6	03/10/2014	Yes	39.6	J	Remaining	CrSCC Exceedance Inaccessible ⁶
P4-A-14A	P4-A-14A-18.0-18.5	18.0 - 18.5	11.3	-6.7	-7.2	11.6	03/10/2014	Yes	27.9	J	Remaining	CrSCC Exceedance Inaccessible ⁶
P4-A-14A	P4-A-14A-20.0-20.5	20.0 - 20.5	11.3	-8.7	-9.2	11.6	03/10/2014	Yes	25.9	J	Remaining	CrSCC Exceedance In Compliance ⁴
P4-A14A	P4-A14A-6.0-6.5	6.0 - 6.5	11.9	5.9	5.4	3.5	03/10/2014	Yes	0.61	J	Removed	
P4-A14A	P4-A14A-8.0-8.5	8.0 - 8.5	11.9	3.9	3.4	3.5	03/10/2014	Yes	0.35	J	Remaining	
P4-A14A	P4-A14A-10.0-10.5	10.0 - 10.5	11.9	1.9	1.4	3.5	03/10/2014	Yes	0.37	J	Remaining	
P4-A14A	P4-A14A-11.0-11.5	11.0 - 11.5	11.9	0.9	0.4	3.5	03/18/2014	Yes	0.76	J	Remaining	
P4-A14A	P4-A14A-11.5-12.0	11.5 - 12.0	11.9	0.4	-0.1	3.5	03/18/2014	Yes	2.7	J	Remaining	
P4-A14A	P4-A14A-12.0-12.5	12.0 - 12.5	11.9	-0.1	-0.6	3.5	03/10/2014	Yes	0.76	J	Remaining	
P4-A14A	P4-A14A-14.0-14.5	14.0 - 14.5	11.9	-2.1	-2.6	3.5	03/10/2014	Yes	1.1	J	Remaining	
P4-A14A	P4-A14A-16.0-16.5	16.0 - 16.5	11.9	-4.1	-4.6	3.5	03/10/2014	Yes	2.8	J	Remaining	
P4-A14A	P4-A14A-18.0-18.5	18.0 - 18.5	11.9	-6.1	-6.6	3.5	03/10/2014	Yes	64.1	J	Remaining	CrSCC Exceedance Below 96-inch Sewer Spring-Line and Not CCPW Source Material ³
P4-A14A	P4-A14A-20.0-20.5	20.0 - 20.5	11.9	-8.1	-8.6	3.5	03/10/2014	Yes	12.5	J	Remaining	
P4-B14A	P4-B14A-6.0-6.5	6.0 - 6.5	12.4	6.4	5.9	3.5	03/11/2014	Yes	0.45	JB	Removed	
P4-B14A	P4-B14A-8.0-8.5	8.0 - 8.5	12.4	4.4	3.9	3.5	03/11/2014	Yes	< 0.079	UJ	Removed	
P4-B14A	P4-B14A-10.0-10.5	10.0 - 10.5	12.4	2.4	1.9	3.5	03/11/2014	Yes	< 0.079	U	Remaining	
P4-B14A	P4-B14A-12.0-12.5	12.0 - 12.5	12.4	0.4	-0.1	3.5	03/11/2014	Yes	< 0.097	U	Remaining	
P4-B14A	P4-B14A-12.0-12.5X	12.0 - 12.5	12.4	0.4	-0.1	3.5	03/11/2014	Yes	0.53	JB	Remaining	
P4-B14A	P4-B14A-12.5-13.0	12.5 - 13.0	12.4	-0.1	-0.6	3.5	03/18/2014	Yes	0.21	J	Remaining	
P4-B14A	P4-B14A-12.5-13.0X	12.5 - 13.0	12.4	-0.1	-0.6	3.5	03/18/2014	Yes	2.6	J	Remaining	
P4-B14A	P4-B14A-13.0-13.5	13.0 - 13.5	12.4	-0.6	-1.1	3.5	03/18/2014	Yes	1.1	J	Remaining	
P4-B14A	P4-B14A-14.0-14.5	14.0 - 14.5	12.4	-1.6	-2.1	3.5	03/11/2014	Yes	1.2	J	Remaining	
P4-B14A	P4-B14A-16.0-16.5	16.0 - 16.5	12.4	-3.6	-4.1	3.5	03/11/2014	Yes	1.3	J	Remaining	
P4-B14A	P4-B14A-18.0-18.5	18.0 - 18.5	12.4	-5.6	-6.1	3.5	03/11/2014	Yes	0.99	JB	Remaining	
P4-B14A	P4-B14A-20.0-20.5	20.0 - 20.5	12.4	-7.6	-8.1	3.5	03/11/2014	Yes	16.1	J	Remaining	
P4-BB20A	P4-BB20A-1.5-2.0	1.5 - 2.0	10.5	9.0	8.5	3.5	12/09/2014	Yes	2.0	J	Removed	
P4-BB20A	P4-BB20A-2.0-2.5	2.0 - 2.5	10.5	8.5	8.0	3.5	12/09/2014	Yes	5.8	J	Removed	
P4-BB20A	P4-BB20A-4.0-4.5	4.0 - 4.5	10.5	6.5	6.0	3.5	12/09/2014	Yes	17.8	J	Removed	
P4-BB20A	P4-BB20A-6.0-6.5	6.0 - 6.5	10.5	4.5	4.0	3.5	12/09/2014	Yes	3.4	J	Removed	
P4-BB20A	P4-BB20A-8.0-8.5	8.0 - 8.5	10.5	2.5	2.0	3.5	12/09/2014	Yes	< 0.33	UJ	Remaining	
P4-BB20A	P4-BB20A-12.0-12.5	12.0 - 12.5	10.5	-1.5	-2.0	3.5	12/09/2014	Yes	11.6	J	Remaining	
P4-BB20A	P4-BB20A-14.0-14.5	14.0 - 14.5	10.5	-3.5	-4.0	3.5	12/09/2014	Yes	< 0.32	UJ	Remaining	
P4-BB20A	P4-BB20A-15.0-15.5	15.0 - 15.5	10.5	-4.5	-5.0	3.5	12/09/2014	Yes	0.81	J	Remaining	
P4-BB20A	P4-BB20A-15.5-16.0	15.5 - 16.0	10.5	-5.0	-5.5	3.5	12/09/2014	Yes	3.2	J	Remaining	
P4-C14A	P4-C14A-6.0-6.5	6.0 - 6.5	12.6	6.6	6.1	3.5	03/11/2014	Yes	< 0.082	UJ	Removed	
P4-C14A	P4-C14A-8.0-8.5	8.0 - 8.5	12.6	4.6	4.1	3.5	03/11/2014	Yes	< 0.078	UJ	Removed	
P4-C14A	P4-C14A-10.0-10.5	10.0 - 10.5	12.6	2.6	2.1	3.5	03/11/2014	Yes	1.4	J	Remaining	
P4-C14A	P4-C14A-12.0-12.5	12.0 - 12.5	12.6	0.6	0.1	3.5	03/11/2014	Yes	0.37	JB	Remaining	
P4-C14A	P4-C14A-13.5-14.0	13.5 - 14.0	12.6	-0.9	-1.4	3.5	03/18/2014	Yes	3.9	J	Remaining	
P4-C14A	P4-C14A-14.0-14.5	14.0 - 14.5	12.6	-1.4	-1.9	3.5	03/11/2014	Yes	1.2	J	Remaining	
P4-C14A	P4-C14A-16.0-16.5	16.0 - 16.5	12.6	-3.4	-3.9	3.5	03/11/2014	Yes	0.76	JB	Remaining	
P4-C14A	P4-C14A-16.0-16.5X	16.0 - 16.5	12.6	-3.4	-3.9	3.5	03/11/2014	Yes	0.51	JB	Remaining	
P4-C14A	P4-C14A-18.0-18.5	18.0 - 18.5	12.6	-5.4	-5.9	3.5	03/11/2014	Yes	6.1	J	Remaining	
P4-C14A	P4-C14A-20.0-20.5	20.0 - 20.5	12.6	-7.4	-7.9	3.5	03/11/2014	Yes	21.5	J	Remaining	CrSCC Exceedance In Compliance ⁴
P4-CC20A	P4-CC20A-0.5-1.0	0.5 - 1.0	10.1	9.6	9.1	3.5	12/11/2014	Yes	0.45	J	Removed	
P4-CC20A	P4-CC20A-2.0-2.5	2.0 - 2.5	10.1	8.1	7.6	3.5	12/11/2014	Yes	0.28	J	Removed	
P4-CC20A	P4-CC20A-4.0-4.5	4.0 - 4.5	10.1	6.1	5.6	3.5	12/11/2014	Yes	0.48	J	Removed	
P4-CC20A	P4-CC20A-6.0-6.5	6.0 - 6.5	10.1	4.1	3.6	3.5	12/11/2014	Yes	0.23	J	Removed	
P4-CC20A	P4-CC20A-8.0-8.5	8.0 - 8.5	10.1	2.1	1.6	3.5	12/11/2014	Yes	0.37	J	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
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PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte	CHROMIUM (HEXAVALENT)		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									CAS RN	Units	18540-29-9		
									MSSRS	20			
									Result	Qualifier			
P4-D14A	P4-D14A-6.0-6.5	6.0 - 6.5	12.6	6.6	6.1	2.7	03/11/2014	Yes	< 0.076	UJ	Removed		
P4-D14A	P4-D14A-8.0-8.5	8.0 - 8.5	12.6	4.6	4.1	2.7	03/11/2014	Yes	9.7		Removed		
P4-D14A	P4-D14A-10.0-10.5	10.0 - 10.5	12.6	2.6	2.1	2.7	03/11/2014	Yes	2.3		Remaining		
P4-D14A	P4-D14A-12.0-12.5	12.0 - 12.5	12.6	0.6	0.1	2.7	03/11/2014	Yes	1.1	JB	Remaining		
P4-D14A	P4-D14A-14.0-14.5	14.0 - 14.5	12.6	-1.4	-1.9	2.7	03/11/2014	Yes	0.63	JB	Remaining		
P4-D14A	P4-D14A-14.5-15.0	14.5 - 15.0	12.6	-1.9	-2.4	2.7	03/18/2014	Yes	0.36	J	Remaining		
P4-D14A	P4-D14A-15.0-15.5	15.0 - 15.5	12.6	-2.4	-2.9	2.7	03/18/2014	Yes	1.0	J	Remaining		
P4-D14A	P4-D14A-16.0-16.5	16.0 - 16.6	12.6	-3.4	-4.0	2.7	03/11/2014	Yes	106	J	Remaining	CrSCC Exceedance Below 96-inch Sewer Spring-Line and Not CCPW Source Material ³	
P4-D14A	P4-D14A-18.0-18.5	18.0 - 18.5	12.6	-5.4	-5.9	2.7	03/11/2014	Yes	3.4		Remaining		
P4-D14A	P4-D14A-20.0-20.5	20.0 - 20.5	12.6	-7.4	-7.9	2.7	03/11/2014	Yes	1.1	JB	Remaining		
P4-E14A	P4-E14A-6.0-6.5	6.0 - 6.5	12.5	6.5	6.0	3.5	03/13/2014	Yes	0.35	J	Removed		
P4-E14A	P4-E14A-8.0-8.5	8.0 - 8.5	12.5	4.5	4.0	3.5	03/13/2014	Yes	0.65	J	Removed		
P4-E14A	P4-E14A-10.0-10.5	10.0 - 10.5	12.5	2.5	2.0	3.5	03/13/2014	Yes	0.25	J	Remaining		
P4-E14A	P4-E14A-12.0-12.5	12.0 - 12.5	12.5	0.5	0.0	3.5	03/13/2014	Yes	0.38	J	Remaining		
P4-E14A	P4-E14A-14.0-14.5	14.0 - 14.5	12.5	-1.5	-2.0	3.5	03/13/2014	Yes	1.1	J	Remaining		
P4-E14A	P4-E14A-14.0-14.5X	14.0 - 14.5	12.5	-1.5	-2.0	3.5	03/13/2014	Yes	0.72	J	Remaining		
P4-E14A	P4-E14A-14.5-15.0	14.5 - 15.0	12.5	-2.0	-2.5	3.5	03/18/2014	Yes	0.41	J	Remaining		
P4-E14A	P4-E14A-15.0-15.5	15.0 - 15.5	12.5	-2.5	-3.0	3.5	03/18/2014	Yes	2.2	J	Remaining		
P4-E14A	P4-E14A-16.0-16.5	16.0 - 16.5	12.5	-3.5	-4.0	3.5	03/13/2014	Yes	3.4	J	Remaining		
P4-E14A	P4-E14A-18.0-18.5	18.0 - 18.5	12.5	-5.5	-6.0	3.5	03/13/2014	Yes	0.61	J	Remaining		
P4-E14A	P4-E14A-20.0-20.5	20.0 - 20.5	12.5	-7.5	-8.0	3.5	03/13/2014	Yes	288	J	Remaining	CrSCC Exceedance In Compliance ⁴	
P4-EE21A	P4-EE21A-1.0-1.5	1.0 - 1.5	10.4	9.4	8.9	6.7	12/10/2014	Yes	15.0	J	Removed		
P4-EE21A	P4-EE21A-2.0-2.5	2.0 - 2.5	10.4	8.4	7.9	6.7	12/10/2014	Yes	8.0	J	Removed		
P4-EE21A	P4-EE21A-4.0-4.5	4.0 - 4.5	10.4	6.4	5.9	6.7	12/10/2014	Yes	14.5	J	Remaining		
P4-EE21A	P4-EE21A-6.0-6.5	6.0 - 6.5	10.4	4.4	3.9	6.7	12/10/2014	Yes	23.0	J	Remaining	CrSCC Exceedance Inaccessible ⁵	
P4-EE21A	P4-EE21A-8.0-8.5	8.0 - 8.5	10.4	2.4	1.9	6.7	12/10/2014	Yes	< 0.23	UJ	Remaining		
P4-EE21A	P4-EE21A-11.0-11.5	11.0 - 11.5	10.4	-0.6	-1.1	6.7	12/10/2014	Yes	0.96	J	Remaining		
P4-EE21A	P4-EE21A-12.0-12.5	12.0 - 12.5	10.4	-1.6	-2.1	6.7	12/10/2014	Yes	0.50	J	Remaining		
P4-EE21A	P4-EE21A-14.0-14.5	14.0 - 14.5	10.4	-3.6	-4.1	6.7	12/10/2014	Yes	< 0.19	UJ	Remaining		
P4-EE21A	P4-EE21A-14.5-15.0	14.5 - 15.0	10.4	-4.1	-4.6	6.7	12/10/2014	Yes	0.66	J	Remaining		
P4-EE21A	P4-EE21A-15.0-15.5	15.0 - 15.5	10.4	-4.6	-5.1	6.7	12/10/2014	Yes	2.1	J	Remaining		
P4-F14A	P4-F14A-6.0-6.5	6.0 - 6.5	12.4	6.4	5.9	3.5	03/13/2014	Yes	32.1	J	Removed		
P4-F14A	P4-F14A-8.0-8.5	8.0 - 8.5	12.4	4.4	3.9	3.5	03/13/2014	Yes	0.22	J	Removed		
P4-F14A	P4-F14A-10.0-10.5	10.0 - 10.5	12.4	2.4	1.9	3.5	03/13/2014	Yes	6.3	J	Remaining		
P4-F14A	P4-F14A-12.0-12.5	12.0 - 12.5	12.4	0.4	-0.1	3.5	03/13/2014	Yes	1.2	J	Remaining		
P4-F14A	P4-F14A-14.0-14.5	14.0 - 14.5	12.4	-1.6	-2.1	3.5	03/13/2014	Yes	0.64	J	Remaining		
P4-F14A	P4-F14A-14.5-15.0	14.5 - 15.0	12.4	-2.1	-2.6	3.5	03/18/2014	Yes	0.55	J	Remaining		
P4-F14A	P4-F14A-15.0-15.5	15.0 - 15.5	12.4	-2.6	-3.1	3.5	03/18/2014	Yes	4.8	J	Remaining		
P4-F14A	P4-F14A-16.0-16.5	16.0 - 16.5	12.4	-3.6	-4.1	3.5	03/13/2014	Yes	2.3	J	Remaining		
P4-F14A	P4-F14A-18.0-18.5	18.0 - 18.5	12.4	-5.6	-6.1	3.5	03/13/2014	Yes	1.1	J	Remaining		
P4-F14A	P4-F14A-20.0-20.5	20.0 - 20.5	12.4	-7.6	-8.1	3.5	03/13/2014	Yes	1.4	J	Remaining		
P4-FF22A	P4-FF22A-1.5-2.0	1.5 - 2.0	9.5	8.0	7.5	8.2	12/10/2014	Yes	0.21	J	Remaining		
P4-FF22A	P4-FF22A-2.0-2.5	2.0 - 2.5	9.5	7.5	7.0	8.2	12/10/2014	Yes	0.72	J	Remaining		
P4-FF22A	P4-FF22A-4.0-4.5	4.0 - 4.5	9.5	5.5	5.0	8.2	12/10/2014	Yes	0.92	J	Remaining		
P4-FF22A	P4-FF22A-4.0-4.5X	4.0 - 4.5	9.5	5.5	5.0	8.2	12/10/2014	Yes	0.89	J	Remaining		
P4-FF22A	P4-FF22A-6.0-6.5	6.0 - 6.5	9.5	3.5	3.0	8.2	12/10/2014	Yes	< 0.25	UJ	Remaining		
P4-FF22A	P4-FF22A-8.0-8.5	8.0 - 8.5	9.5	1.5	1.0	8.2	12/10/2014	Yes	0.27	J	Remaining		
P4-FF22A	P4-FF22A-10.0-10.5	10.0 - 10.5	9.5	-0.5	-1.0	8.2	12/10/2014	Yes	< 0.21	UJ	Remaining		
P4-FF22A	P4-FF22A-12.0-12.5	12.0 - 12.5	9.5	-2.5	-3.0	8.2	12/10/2014	Yes	0.47	J	Remaining		
P4-FF22A	P4-FF22A-13.5-14.0	13.5 - 14.0	9.5	-4.0	-4.5	8.2	12/10/2014	Yes	< 0.19	UJ	Remaining		
P4-FF22A	P4-FF22A-14.0-14.5	14.0 - 14.5	9.5	-4.5	-5.0	8.2	12/10/2014	Yes	3.1	J	Remaining		
P4-G14A	P4-G14A-6.0-6.5	6.0 - 6.5	12.4	6.4	5.9	3.5	03/11/2014	Yes	0.48	JB	Removed		
P4-G14A	P4-G14A-8.0-8.5	8.0 - 8.5	12.4	4.4	3.9	3.5	03/11/2014	Yes	1.4	J	Removed		
P4-G14A	P4-G14A-10.0-10.5	10.0 - 10.5	12.4	2.4	1.9	3.5	03/11/2014	Yes	1.7	J	Remaining		
P4-G14A	P4-G14A-12.0-12.5	12.0 - 12.5	12.4	0.4	-0.1	3.5	03/11/2014	Yes	1.7	J	Remaining		
P4-G14A	P4-G14A-14.0-14.5	14.0 - 14.5	12.4	-1.6	-2.1	3.5	03/11/2014	Yes	1.8	J	Remaining		
P4-G14A	P4-G14A-14.5-15.0	14.5 - 15.0	12.4	-2.1	-2.6	3.5	03/18/2014	Yes	2.7	J	Remaining		
P4-G14A	P4-G14A-16.0-16.5	16.0 - 16.5	12.4	-3.6	-4.1	3.5	03/11/2014	Yes	53.9	J	Remaining	CrSCC Exceedance Below 96-inch Sewer Spring-Line and Not CCPW Source Material ³	
P4-G14A	P4-G14A-18.0-18.5	18.0 - 18.5	12.4	-5.6	-6.1	3.5	03/11/2014	Yes	2.7	J	Remaining		
P4-G14A	P4-G14A-20.0-20.5	20.0 - 20.5	12.4	-7.6	-8.1	3.5	03/11/2014	Yes	0.95	JB	Remaining		

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9 mg/kg	20		
									Result	Qualifier		
P4-HAL-Y20A	P4-HAL-Y20A-2.0-2.5	2.0 - 2.5	11.3	9.3	8.8	-1.0	09/25/2014	Yes	114		Removed	
P4-HAL-Y20A	P4-HAL-Y20A-4.0-4.5	4.0 - 4.5	11.3	7.3	6.8	-1.0	09/25/2014	Yes	105		Removed	
P4-HAL-Y20A	P4-HAL-Y20A-6.0-6.5	6.0 - 6.5	11.3	5.3	4.8	-1.0	09/25/2014	Yes	259		Removed	
P4-HAL-Y20A	P4-HAL-Y20A-8.0-8.5	8.0 - 8.5	11.3	3.3	2.8	-1.0	09/25/2014	Yes	851		Removed	
P4-HAL-Y20A	P4-HAL-Y20A-10.0-10.5	10.0 - 10.5	11.3	1.3	0.8	-1.0	09/25/2014	Yes	< 0.24	U	Removed	
P4-HAL-Y20A	P4-HAL-Y20A-12.0-12.5	12.0 - 12.5	11.3	-0.7	-1.2	-1.0	09/25/2014	Yes	< 0.20	U	Remaining	
P4-HAL-Y20A	P4-HAL-Y20A-14.0-14.5	14.0 - 14.5	11.3	-2.7	-3.2	-1.0	09/25/2014	Yes	< 0.19	U	Remaining	
P4-HAL-Y20A	P4-HAL-Y20A-16.0-16.5	16.0 - 16.5	11.3	-4.7	-5.2	-1.0	09/25/2014	Yes	< 0.22	U	Remaining	
P4-HAL-Y20A	P4-HAL-Y20A-17.0-17.5	17.0 - 17.5	11.3	-6.7	-6.2	-1.0	09/25/2014	Yes	< 0.19	U	Remaining	
P4-HAL-Y20A	P4-HAL-Y20A-17.5-18.0	17.5 - 18.0	11.3	-6.2	-6.7	-1.0	09/25/2014	Yes	< 0.50	UU	Remaining	
P4-I14A	P4-I14A-10.0-10.5	10.0 - 10.5	12.1	2.1	1.6	-1.5	03/14/2014	Yes	16.4	J	Removed	
P4-I14A	P4-I14A-12.0-12.5	12.0 - 12.5	12.1	0.1	-0.4	-1.5	03/14/2014	Yes	11.9	J	Removed	
P4-I14A	P4-I14A-14.0-14.5	14.0 - 14.5	12.1	-1.9	-2.4	-1.5	03/14/2014	Yes	7.9	J	Remaining	
P4-I14A	P4-I14A-14.5-15.0	14.5 - 15.0	12.1	-2.4	-2.9	-1.5	03/18/2014	Yes	35.2	J	Remaining	CrSCC Exceedance Below 96-inch Sewer Spring-Line and Not CCPW Source Material ³
P4-I14A	P4-I14A-15.0-15.5	15.0 - 15.5	12.1	-2.9	-3.4	-1.5	03/18/2014	Yes	2.8	J	Remaining	
P4-I14A	P4-I14A-16.0-16.5	16.0 - 16.5	12.1	-3.9	-4.4	-1.5	03/14/2014	Yes	1.3	J	Remaining	
P4-I14A	P4-I14A-18.0-18.5	18.0 - 18.5	12.1	-5.9	-6.4	-1.5	03/14/2014	Yes	2.8	J	Remaining	
P4-I14A	P4-I14A-20.0-20.5	20.0 - 20.5	12.1	-7.9	-8.4	-1.5	03/14/2014	Yes	0.24	J	Remaining	
P4-J14A	P4-J14A-18.0-18.5	18.0 - 18.5	12.1	-5.9	-6.4	-6.0	03/14/2014	Yes	4.3	J	Remaining	
P4-J14A	P4-J14A-20.0-20.5	20.0 - 20.5	12.1	-7.9	-8.4	-6.0	03/14/2014	Yes	674	J	Remaining	CrSCC Exceedance In Compliance ⁴
P4-K14A	P4-K14A-15.5-16.0	15.5 - 16.0	12.2	-3.3	-3.8	-8.1	03/18/2014	Yes	0.67	J	Removed	
P4-K14A	P4-K14A-16.0-16.5	16.0 - 16.5	12.2	-3.8	-4.3	-8.1	03/14/2014	Yes	0.90	J	Removed	
P4-K14A	P4-K14A-16.0-16.5X	16.0 - 16.5	12.2	-3.8	-4.3	-8.1	03/14/2014	Yes	1.2	J	Removed	
P4-K14A	P4-K14A-18.0-18.5	18.0 - 18.5	12.2	-5.8	-6.3	-8.1	03/14/2014	Yes	2.7	J	Removed	
P4-K14A	P4-K14A-20.0-20.5	20.0 - 20.5	12.2	-7.8	-8.3	-8.1	03/14/2014	Yes	0.11	J	Remaining	
P4-M14A	P4-M14A-11.7-12.2	11.7 - 12.2	12.3	0.6	0.1	-8.1	03/06/2014	Yes	1.5	J	Removed	
P4-M14A	P4-M14A-11.7-12.2X	11.7 - 12.2	12.3	0.6	0.1	-8.1	03/06/2014	Yes	2.5	J	Removed	
P4-M14A	P4-M14A-12.2-12.7	12.2 - 12.7	12.3	0.1	-0.4	-8.1	03/06/2014	Yes	5.2	J	Removed	
P4-M14A	P4-M14A-14.0-14.5	14.0 - 14.5	12.3	-1.7	-2.2	-8.1	03/06/2014	Yes	1.9	J	Removed	
P4-M14A	P4-M14A-16.0-16.5	16.0 - 16.5	12.3	-3.7	-4.2	-8.1	03/06/2014	Yes	5.4	J	Removed	
P4-M14A	P4-M14A-18.0-18.5	18.0 - 18.5	12.3	-5.7	-6.2	-8.1	03/06/2014	Yes	1.6	J	Removed	
P4-M14A	P4-M14A-20.0-20.5	20.0 - 20.5	12.3	-7.7	-8.2	-8.1	03/06/2014	Yes	119	J	Removed	
P4-M15A	P4-M15A-12.0-12.5	12.0 - 12.5	12.7	0.7	0.2	-8.1	03/07/2014	Yes	0.36	RA	Removed	
P4-M15A	P4-M15A-14.0-14.5	14.0 - 14.5	12.7	-1.3	-1.8	-8.1	03/07/2014	Yes	5.1	RA	Removed	
P4-M15A	P4-M15A-14.5-15.0	14.5 - 15.0	12.7	-1.8	-2.3	-8.1	03/07/2014	Yes	897	RA	Removed	
P4-M15A	P4-M15A-16.0-16.5	16.0 - 16.5	12.7	-3.3	-3.8	-8.1	03/07/2014	Yes	16.7	RA	Removed	
P4-M15A	P4-M15A-16.0-16.5X	16.0 - 16.5	12.7	-3.3	-3.8	-8.1	03/07/2014	Yes	1.7	RA	Removed	
P4-M15A	P4-M15A-18.0-18.5	18.0 - 18.5	12.7	-5.3	-5.8	-8.1	03/07/2014	Yes	1.9	RA	Removed	
P4-M15A	P4-M15A-20.0-20.5	20.0 - 20.5	12.7	-7.3	-7.8	-8.1	03/07/2014	Yes	18.3	RA	Removed	
P4-N15A	P4-N15A-16.0-16.5	16.0 - 16.5	12.5	-3.5	-4.0	-1.5	03/13/2014	Yes	4.5	RA	Remaining	
P4-N15A	P4-N15A-18.0-18.5	18.0 - 18.5	12.5	-5.5	-6.0	-1.5	03/13/2014	Yes	0.84	RA	Remaining	
P4-N15A	P4-N15A-20.0-20.5	20.0 - 20.5	12.5	-7.5	-8.0	-1.5	03/13/2014	Yes	189	RA	Remaining	CrSCC Exceedance In Compliance ⁴
P4-O16A	P4-O16A-13.3-13.8	13.3 - 13.8	13.1	-0.2	-0.7	-1.5	03/10/2014	Yes	0.36	J	Removed	
P4-O16A	P4-O16A-13.8-14.3	13.8 - 14.3	13.1	-0.7	-1.2	-1.5	03/10/2014	Yes	0.50	J	Removed	
P4-O16A	P4-O16A-16.0-16.5	16.0 - 16.5	13.1	-2.9	-3.4	-1.5	03/10/2014	Yes	3.9	J	Remaining	
P4-O16A	P4-O16A-18.0-18.5	18.0 - 18.5	13.1	-4.9	-5.4	-1.5	03/10/2014	Yes	0.93	J	Remaining	
P4-O16A	P4-O16A-20.0-20.5	20.0 - 20.5	13.1	-6.9	-7.4	-1.5	03/10/2014	Yes	34.9	J	Remaining	CrSCC Exceedance In Compliance ⁴
P4-O16A	P4-O16A-20.0-20.5X	20.0 - 20.5	13.1	-6.9	-7.4	-1.5	03/10/2014	Yes	174	J	Remaining	CrSCC Exceedance In Compliance ⁴
P4-P15A	P4-P15A-13.5-14.0	13.5 - 14.0	11.9	-1.6	-2.1	-1.5	03/07/2014	Yes	1.2	J	Remaining	
P4-P15A	P4-P15A-14.0-14.5	14.0 - 14.5	11.9	-2.1	-2.6	-1.5	03/07/2014	Yes	1.9	J	Remaining	
P4-P15A	P4-P15A-16.0-16.5	16.0 - 16.5	11.9	-4.1	-4.6	-1.5	03/07/2014	Yes	2.9	J	Remaining	
P4-P15A	P4-P15A-18.0-18.5	18.0 - 18.5	11.9	-6.1	-6.6	-1.5	03/07/2014	Yes	0.47	J	Remaining	
P4-P15A	P4-P15A-20.0-20.5	20.0 - 20.5	11.9	-8.1	-8.6	-1.5	03/07/2014	Yes	1.1	J	Remaining	
P4-P16A	P4-P16A-16.0-16.5	16.0 - 16.5	12.6	-3.4	-3.9	-1.5	03/14/2014	Yes	1.3	J	Remaining	
P4-P16A	P4-P16A-16.0-16.5X	16.0 - 16.5	12.6	-3.4	-3.9	-1.5	03/14/2014	Yes	1.1	J	Remaining	
P4-P16A	P4-P16A-18.0-18.5	18.0 - 18.5	12.6	-5.4	-5.9	-1.5	03/14/2014	Yes	1.1	J	Remaining	
P4-P16A	P4-P16A-20.0-20.5	20.0 - 20.5	12.6	-7.4	-7.9	-1.5	03/14/2014	Yes	< 0.086	UU	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Result	Qualifier	Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9 mg/kg	20				
P4-Q16A	P4-Q16A-14.0-14.5	14.0 - 14.5	11.9	-2.1	-2.6	-3.0	03/07/2014	Yes	1.3	J	Removed			
P4-Q16A	P4-Q16A-14.5-15.0	14.5 - 15.0	11.9	-2.6	-3.1	-3.0	03/07/2014	Yes	2.1	J	Remaining			
P4-Q16A	P4-Q16A-16.0-16.5	16.0 - 16.5	11.9	-4.1	-4.6	-3.0	03/07/2014	Yes	1.1	J	Remaining			
P4-Q16A	P4-Q16A-18.0-18.5	18.0 - 18.5	11.9	-6.1	-6.6	-3.0	03/07/2014	Yes	2.3	J	Remaining			
P4-Q16A	P4-Q16A-20.0-20.5	20.0 - 20.5	11.9	-8.1	-8.6	-3.0	03/07/2014	Yes	4.0	J	Remaining			
P4-R17A	P4-R17A-12.0-12.5	12.0 - 12.5	12.3	0.3	-0.2	-2.6	03/11/2014	Yes	693	J	Removed			
P4-R17A	P4-R17A-14.0-14.5	14.0 - 14.5	12.3	-1.7	-2.2	-2.6	03/11/2014	Yes	4.9	J	Removed			
P4-R17A	P4-R17A-14.0-14.5X	14.0 - 14.5	12.3	-1.7	-2.2	-2.6	03/11/2014	Yes	2.3	J	Removed			
P4-R17A	P4-R17A-16.0-16.5	16.0 - 16.5	12.3	-3.7	-4.2	-2.6	03/11/2014	Yes	9.1	J	Remaining			
P4-R17A	P4-R17A-18.0-18.5	18.0 - 18.5	12.3	-5.7	-6.2	-2.6	03/11/2014	Yes	2.6	J	Remaining			
P4-R17A	P4-R17A-20.0-20.5	20.0 - 20.5	12.3	-7.7	-8.2	-2.6	03/11/2014	Yes	15.5	J	Remaining			
P4-S17A	P4-S17A-6.0-6.5	6.0 - 6.5	12.2	6.2	5.7	-3.0	03/13/2014	Yes	122	RA	Removed			
P4-S17A	P4-S17A-8.0-8.5	8.0 - 8.5	12.2	4.2	3.7	-3.0	03/13/2014	Yes	280	RA	Removed			
P4-S17A	P4-S17A-10.0-10.5	10.0 - 10.5	12.2	2.2	1.7	-3.0	03/13/2014	Yes	1020	RA	Removed			
P4-S17A	P4-S17A-12.0-12.5	12.0 - 12.5	12.2	0.2	-0.3	-3.0	03/13/2014	Yes	16.6	RA	Removed			
P4-S17A	P4-S17A-14.0-14.5	14.0 - 14.5	12.2	-1.8	-2.3	-3.0	03/13/2014	Yes	24.9	RA	Removed			
P4-S17A	P4-S17A-16.0-16.5	16.0 - 16.5	12.2	-3.8	-4.3	-3.0	03/13/2014	Yes	4.1	RA	Remaining			
P4-S17A	P4-S17A-16.0-16.5X	16.0 - 16.5	12.2	-3.8	-4.3	-3.0	03/13/2014	Yes	2.6	RA	Remaining			
P4-S17A	P4-S17A-18.0-18.5	18.0 - 18.5	12.2	-5.8	-6.3	-3.0	03/13/2014	Yes	4.8	RA	Remaining			
P4-S17A	P4-S17A-19.0-19.5	19.0 - 19.5	12.2	-6.8	-7.3	-3.0	03/13/2014	Yes	4.9	RA	Remaining			
P4-S17A	P4-S17A-19.5-20.0	19.5 - 20.0	12.2	-7.3	-7.8	-3.0	03/13/2014	Yes	5.4	RA	Remaining			
P4-T17A	P4-T17A-14.0-14.5	14.0 - 14.5	11.9	-2.1	-2.6	-2.0	03/07/2014	Yes	0.47	J	Remaining			
P4-T17A	P4-T17A-14.0-14.5X	14.0 - 14.5	11.9	-2.1	-2.6	-2.0	03/07/2014	Yes	0.40	J	Remaining			
P4-T17A	P4-T17A-16.0-16.5	16.0 - 16.5	11.9	-4.1	-4.6	-2.0	03/07/2014	Yes	0.45	J	Remaining			
P4-T17A	P4-T17A-16.7-17.2	16.7 - 17.2	11.9	-4.8	-5.3	-2.0	03/07/2014	Yes	0.67	J	Remaining			
P4-T17A	P4-T17A-17.2-17.7	17.2 - 17.7	11.9	-5.3	-5.8	-2.0	03/07/2014	Yes	3.0	J	Remaining			
P4-T17A	P4-T17A-19.2-19.7	19.2 - 19.7	11.9	-7.3	-7.8	-2.0	03/07/2014	Yes	1.2	J	Remaining			
P4-T17A	P4-T17A-20.0-20.5	20.0 - 20.5	11.9	-8.1	-8.6	-2.0	03/07/2014	Yes	0.75	J	Remaining			
P4-U19A	P4-U19A-18.0-18.5	18.0 - 18.5	12.4	-5.6	-6.1	-3.6	03/11/2014	Yes	1.7	J	Remaining			
P4-U19A	P4-U19A-20.0-20.5	20.0 - 20.5	12.4	-7.6	-8.1	-3.6	03/11/2014	Yes	2.3	J	Remaining			
P4-V18A	P4-V18A-17.0-17.5	17.0 - 17.5	11.8	-5.2	-5.7	-2.9	03/13/2014	Yes	0.76	RA	Remaining			
P4-V18A	P4-V18A-17.5-18.0	17.5 - 18.0	11.8	-5.7	-6.2	-2.9	03/13/2014	Yes	1.8	RA	Remaining			
P4-W18A	P4-W18A-16.0-16.5	16.0 - 16.5	11.9	-4.1	-4.6	-3.3	03/13/2014	Yes	1.8	RA	Remaining			
P4-W18A	P4-W18A-16.5-17.0	16.5 - 17.0	11.9	-4.6	-5.1	-3.3	03/13/2014	Yes	2.6	RA	Remaining			
P4-W19A	P4-W19A-16.2-16.7	16.2 - 16.7 ft	12.5	-3.7	-4.2	-4.0	03/05/2014	Yes	0.57	J	Remaining			
P4-W19A	P4-W19A-16.7-17.2	16.7 - 17.2 ft	12.5	-4.2	-4.7	-4.0	03/05/2014	Yes	3.7	J	Remaining			
P4-W19A	P4-W19A-18.0-18.5	18.0 - 18.5 ft	12.5	-5.5	-6.0	-4.0	03/06/2014	Yes	6.4	RA	Remaining			
P4-W19A	P4-W19A-20.0-20.5	20.0 - 20.5 ft	12.5	-7.5	-8.0	-4.0	03/06/2014	Yes	30.7	RA	Remaining			
P4-X19A	P4-X19A-14.0-14.5	14.0 - 14.5	12.0	-2.0	-2.5	-6.0	03/05/2014	Yes	5.0	J	Removed			
P4-X19A	P4-X19A-16.0-16.5	16.0 - 16.5	12.0	-4.0	-4.5	-6.0	03/05/2014	Yes	491	J	Removed			
P4-X19A	P4-X19A-16.5-17.0	16.5 - 17.0	12.0	-4.5	-5.0	-6.0	03/05/2014	Yes	2.8	J	Removed			
P4-X19A	P4-X19A-16.5-17.0X	16.5 - 17.0	12.0	-4.5	-5.0	-6.0	03/05/2014	Yes	8.7	J	Removed			
P4-X19A	P4-X19A-17.0-17.5	17.0 - 17.5	12.0	-5.0	-5.5	-6.0	03/05/2014	Yes	1.3	RA	Removed			
P4-X19A	P4-X19A-18.0-18.5	18.0 - 18.5	12.0	-6.0	-6.5	-6.0	03/06/2014	Yes	5.0	RA	Remaining			
P4-X19A	P4-X19A-20.0-20.5	20.0 - 20.5	12.0	-8.0	-8.5	-6.0	03/06/2014	Yes	25.8	RA	Remaining	CrSCC Exceedance In Compliance ⁴		
P4-X19AR	P4-X19A-1.0-1.5	1.0 - 1.5	11.9	10.9	10.4	-3.0	12/12/2014	Yes	152	J	Removed			
P4-X19AR	P4-X19A-2.0-2.5	2.0 - 2.5	11.9	9.9	9.4	-3.0	12/12/2014	Yes	91.8	J	Removed			
P4-X19AR	P4-X19A-4.0-4.5	4.0 - 4.5	11.9	7.9	7.4	-3.0	12/12/2014	Yes	265	J	Removed			
P4-X19AR	P4-X19A-6.0-6.5	6.0 - 6.5	11.9	5.9	5.4	-3.0	12/12/2014	Yes	276	J	Removed			
P4-X19AR	P4-X19A-11.5-12.0	11.5 - 12.0	11.9	0.4	-0.1	-3.0	12/12/2014	Yes	2150	J	Removed			
P4-X19AR	P4-X19A-12.0-12.5	12.0 - 12.5	11.9	-0.1	-0.6	-3.0	12/12/2014	Yes	156	J	Removed			
P4-X19AR	P4-X19A-20.0-20.5R	20.0 - 20.5	11.9	-8.1	-8.6	-3.0	12/12/2014	Yes	1.5	J	Remaining			

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Elevation of Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
									18540-29-9 mg/kg	20		
									Result	Qualifier		
P4-Y19A	P4-Y19A-1.0-1.5	1.0 - 1.5	11.8	10.8	10.3	-1.0	12/08/2014	Yes	3120	J	Removed	
P4-Y19A	P4-Y19A-5.0-5.5	5.0 - 5.5	11.8	6.8	6.3	-1.0	12/08/2014	Yes	3590	J	Removed	
P4-Y19A	P4-Y19A-6.0-6.5	6.0 - 6.5	11.8	5.8	5.3	-1.0	12/08/2014	Yes	241	J	Removed	
P4-Y19A	P4-Y19A-8.0-8.5	8.0 - 8.5	11.8	3.8	3.3	-1.0	12/08/2014	Yes	1620	J	Removed	
P4-Y19A	P4-Y19A-10.0-10.5	10.0 - 10.5	11.8	1.8	1.3	-1.0	12/08/2014	Yes	533	J	Removed	
P4-Y19A	P4-Y19A-12.0-12.5	12.0 - 12.5	11.8	-0.2	-0.7	-1.0	12/08/2014	Yes	255	J	Removed	
P4-Y19A	P4-Y19A-14.0-14.5	14.0 - 14.5	11.8	-2.2	-2.7	-1.0	12/08/2014	Yes	0.38	J	Remaining	
P4-Y19A	P4-Y19A-16.0-16.5	16.0 - 16.5	11.8	-4.2	-4.7	-1.0	12/08/2014	Yes	0.38	J	Remaining	
P4-Z19A	P4-Z19A-1.0-1.5	1.0 - 1.5	10.9	9.9	9.4	1.5	12/08/2014	Yes	6.0	J	Removed	
P4-Z19A	P4-Z19A-2.0-2.5	2.0 - 2.5	10.9	8.9	8.4	1.5	12/08/2014	Yes	15.2	J	Removed	
P4-Z19A	P4-Z19A-4.0-4.5	4.0 - 4.5	10.9	6.9	6.4	1.5	12/08/2014	Yes	65.4	J	Removed	
P4-Z19A	P4-Z19A-4.0-4.5X	4.0 - 4.5	10.9	6.9	6.4	1.5	12/08/2014	Yes	14.6	J	Removed	
P4-Z19A	P4-Z19A-6.0-6.5	6.0 - 6.5	10.9	4.9	4.4	1.5	12/08/2014	Yes	89.6	J	Removed	
P4-Z19A	P4-Z19A-8.0-8.5	8.0 - 8.5	10.9	2.9	2.4	1.5	12/08/2014	Yes	46.9	J	Removed	
P4-Z19A	P4-Z19A-10.0-10.5	10.0 - 10.5	10.9	0.9	0.4	1.5	12/08/2014	Yes	5.0	J	Remaining	
P4-Z19A	P4-Z19A-11.5-12.0	11.5 - 12.0	10.9	-0.6	-1.1	1.5	12/08/2014	Yes	0.29	J	Remaining	
P4-Z19A	P4-Z19A-12.0-12.5	12.0 - 12.5	10.9	-1.1	-1.6	1.5	12/08/2014	Yes	1.2	J	Remaining	
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2R	6.0 - 6.5	11.1	5.1	4.6	3.5	11/22/2006	Yes	< 1.7	U	Removed	
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5R	8.5 - 9.0	11.1	2.6	2.1	3.5	11/22/2006	Yes	< 2.2	U	Remaining	
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7R	10.0 - 10.5	11.1	1.1	0.6	3.5	11/22/2006	Yes	< 1.2	U	Remaining	
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8R	12.0 - 13.0	11.1	-0.9	-1.9	3.5	11/22/2006	Yes	< 1.2	U	Remaining	
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9R	14.2 - 14.9	11.1	-3.1	-3.8	3.5	11/22/2006	Yes	< 1.2	U	Remaining	
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10R	14.2 - 14.9	11.1	-3.1	-3.8	3.5	11/22/2006	Yes	< 1.2	U	Remaining	
PSEG-SB52	PSEG-SB52H(16.0-16.5)J47368-9	16.0 - 16.5	11.1	-4.9	-5.4	3.5	11/27/2006	Yes	< 2.2	U	Remaining	
PSEG-SB52	PSEG-SB52I(19.0-20.0)J47368-10	19.0 - 20.0	11.1	-7.9	-8.9	3.5	11/27/2006	Yes	< 1.9	U	Remaining	
PSEG-SB52	PSEG-SB52ID(19.0-20.0)J47368-11	19.0 - 20.0	11.1	-7.9	-8.9	3.5	11/27/2006	Yes	< 1.9	U	Remaining	
PSEG-SB52	PSEG-SB52J(20.0-21.0)J47368-12	20.0 - 21.0	11.1	-8.9	-9.9	3.5	11/27/2006	Yes	< 1.9	U	Remaining	
PSEG-SB52	PSEG-SB52K(21.0-21.2)J47368-13	21.0 - 21.2	11.1	-9.9	-10.1	3.5	11/27/2006	Yes	< 1.2	U	Remaining	
PSEG-SB54	PSEG-SB54A(1.0-1.5)J47368-1	1.0 - 1.5	10.2	9.2	8.7	3.5	11/27/2006	Yes	1.6		Removed	
PSEG-SB54	PSEG-SB54B(4.0-4.5)J47368-2	4.0 - 4.5	10.2	6.2	5.7	3.5	11/27/2006	Yes	< 1.5	U	Removed	
PSEG-SB54	PSEG-SB54C(6.5-7.1)J47368-3	6.5 - 7.1	10.2	3.7	3.1	3.5	11/27/2006	Yes	< 1.2	U	Remaining	
PSEG-SB54	PSEG-SB54D(12.0-12.5)J47368-4	12.0 - 12.5	10.2	-1.8	-2.3	3.5	11/27/2006	Yes	< 1.2	U	Remaining	
PSEG-SB54	PSEG-SB54E(14.5-15.0)J47368-5	14.5 - 15.0	10.2	-4.3	-4.8	3.5	11/27/2006	Yes	< 1.8	U	Remaining	
XOSB-9	114-XOSB9C(5-6.3)20060920	5.0 - 6.3	13.7	8.7	7.4	2.7	09/20/2006	Yes	< 1.2	UJ	Removed	
XOSB-9	114-XOSB9CD(5-6.3)20060920	5.0 - 6.3	13.7	8.7	7.4	2.7	09/20/2006	Yes	< 1.2	UJ	Removed	
XOSB-9	114-XOSB9D(8-10.1)20060920	8.0 - 10.1	13.7	5.7	3.6	2.7	09/20/2006	Yes	< 1.2	UJ	Removed	
XOSB-9	114-XOSB9E(16-17)20060920	16.0 - 17.0	13.7	-2.3	-3.3	2.7	09/20/2006	Yes	3.6	J	Remaining	
XOSB-9	114-XOSB9G(24-26)20060920	24.0 - 26.0	13.7	-10.3	-12.3	2.7	09/20/2006	Yes	< 1.2	U	Remaining	
XOSB-10	114XOSB-10D(10.0-11.0)20060914	10.0 - 11.0	12.4	2.4	1.4	3.5	09/14/2006	Yes	< 1.6	UJ	Remaining	
XOSB-10	114XOSB-10E(12.0-12.9)20060914	12.0 - 12.9	12.4	0.4	-0.5	3.5	09/14/2006	Yes	< 1.3	UJ	Remaining	
XOSB-10	114XOSB-10ED(12.0-12.9)20060914	12.0 - 12.9	12.4	0.4	-0.5	3.5	09/14/2006	Yes	< 1.3	UJ	Remaining	
XOSB-10	114XOSB-10F(14.0-14.5)20060914	14.0 - 14.5	12.4	-1.6	-2.1	3.5	09/14/2006	Yes	< 2.8	UJ	Remaining	
XOSB-10	114XOSB-10G(17.0-17.5)20060914	17.0 - 17.5	12.4	-4.6	-5.1	3.5	09/14/2006	Yes	8.6	J	Remaining	
XOSB-12	114XOSB-12C(8.0-8.5)20060913	8.0 - 8.5	13.7	5.7	5.2	-8.1	09/13/2006	Yes	7980	J	Removed	
XOSB-12	114XOSB-12D(13.0-13.5)20060913	13.0 - 13.5	13.7	0.7	0.2	-8.1	09/13/2006	Yes	8360	J	Removed	
XOSB-12	114XOSB-12E(17.0-17.5)20060913	17.0 - 17.5	13.7	-3.3	-3.8	-8.1	09/13/2006	Yes	8220	J	Removed	
XOSB-12	114XOSB-12F(19.5-20.0)20060913	19.5 - 20.0	13.7	-5.8	-6.3	-8.1	09/13/2006	Yes	< 1.6	UJ	Removed	
XOSB-13	114XOSB-13C(4.5-5.5)20060913	4.5 - 5.5	12.5	8.0	7.0	-2.2	09/13/2006	Yes	5920	J	Removed	
XOSB-13	114XOSB-13D(7.0-8.0)20060913	7.0 - 8.0	12.5	5.5	4.5	-2.2	09/13/2006	Yes	4340	J	Removed	
XOSB-13	114XOSB-13DD(7.0-8.0)20060913	7.0 - 8.0	12.5	5.5	4.5	-2.2	09/13/2006	Yes	3290	J	Removed	
XOSB-13	114XOSB-13E(10.0-10.5)20060913	10.0 - 10.5	12.5	2.5	2.0	-2.2	09/13/2006	Yes	6460	J	Removed	
XOSB-13	114XOSB-13F(13.5-14.0)20060913	13.5 - 14.0	12.5	-1.0	-1.5	-2.2	09/13/2006	Yes	10900	J	Removed	
XOSB-13	114XOSB-13G(14.0-14.5)20060913	14.0 - 14.5	12.5	-1.5	-2.0	-2.2	09/13/2006	Yes	2140	J	Removed	
XOSB-13	114XOSB-13H(18.5-19.0)20060913	18.5 - 19.0	12.5	-6.0	-6.5	-2.2	09/13/2006	Yes	< 2.0	UJ	Remaining	
XOSB-15	114-XOSB-15C(8-8.5)20060912	8.0 - 8.5	11.7	3.7	3.2	-1.5	09/12/2006	Yes	218	J	Removed	
XOSB-15	114-XOSB-15D(11-11.5)20060912	11.0 - 11.5	11.7	0.7	0.2	-1.5	09/12/2006	Yes	< 1.2	UJ	Removed	
XOSB-15	114-XOSB-15E(14-14.5)20060912	14.0 - 14.5	11.7	-2.3	-2.8	-1.5	09/12/2006	Yes	< 2.3	UJ	Remaining	

Table 5-1A
Validated Cr⁺⁶ Sample Results Summary
Carteret Avenue Remedial Action Work Plan
PPG, Jersey City, New Jersey

Location ID	Sample ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Excavation at Location	Collection Date	Validated	Analyte CAS RN Units MSSRS	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20		Sample Status ^{1,2}	Rationale for CrSCC Exceedance Remaining
										Result	Qualifier		
XOSB-17	114-XOSB-17C(6.2-7.2)20060912	6.2 - 7.2	11.8	5.6	4.6	-3.0	09/12/2006	Yes		42.0	J	Removed	
XOSB-17	114-XOSB-17D(8.2-9.2)20060912	8.2 - 9.2	11.8	3.6	2.6	-3.0	09/12/2006	Yes		1400	J	Removed	
XOSB-17	114-XOSB-17DD(8.2-9.2)20060912	8.2 - 9.2	11.8	3.6	2.6	-3.0	09/12/2006	Yes		2060	J	Removed	
XOSB-17	114-XOSB-17E(10.2-10.7)20060912	10.2 - 10.7	11.8	1.6	1.1	-3.0	09/12/2006	Yes		757	J	Removed	
XOSB-17	114-XOSB-17F(12.2-12.7)20060912	12.2 - 12.7	11.8	-0.4	-0.9	-3.0	09/12/2006	Yes		398	J	Removed	
XOSB-17	114-XOSB-17G(14.2-14.7)20060912	14.2 - 14.7	11.8	-2.4	-2.9	-3.0	09/12/2006	Yes		< 1.2	UJ	Removed	
XOSB-17	114-XOSB-17H(16-16.5)20060912	16.0 - 16.5	11.8	-4.2	-4.7	-3.0	09/12/2006	Yes		< 1.5	UJ	Remaining	
XOSB-17	114-XOSB-17L(26-27)20060912	26.0 - 27.0	11.8	-14.2	-15.2	-3.0	09/12/2006	Yes		< 1.3	UJ	Remaining	
XOSB-17	114-XOSB-17LD(26-27)20060912	26.0 - 27.0	11.8	-14.2	-15.2	-3.0	09/12/2006	Yes		< 1.2	UJ	Remaining	
XOSB-19	XOSB-19H(18-18.5)20060911	18.0 - 18.5	11.9	-6.1	-6.6	-2.0	09/11/2006	Yes		1.4	J	Remaining	
XOSB-19	XOSB-19HD(18-18.5)20060911	18.0 - 18.5	11.9	-6.1	-6.6	-2.0	09/11/2006	Yes		< 1.7	UJ	Remaining	
XOSB-21	XOSB-21E(20-21)20060911	20.0 - 21.0	11.7	-8.3	-9.3	-6.0	09/11/2006	Yes		2.6	J	Remaining	

Notes:

Bolded value - Indicates exceedance of NJDEP MSSRS

- 1 - The sample status "Remaining" indicates that the sample will remain in place based on the proposed excavation plan.
- 2 - The sample status "Removed" indicates that the sample will be removed during excavation based on the proposed excavation plan.
- 3 - CCPW Source Material defined as visible CCPW and Cr⁺⁶ concentrations in soil greater than 1,000 mg/kg.
- 4 - CrSCC exceedance to remain following excavation is in compliance with the Method to Determine Compliance (NJDEP, 2013).
- 5 - CrSCC exceedance to remain following excavation is inaccessible due to the presence of OneOOne Pacific, LLC building.
- 6 - CrSCC exceedance to remain following excavation is inaccessible due to proximity to Garfield Avenue.

Reference:

NJDEP, 2013. Letter from Tom Cozzi of NJDEP to W. Michael McCabe, Subject: *Re: Updated Method to Determine Compliance with the Department's Chromium Policy, Garfield Avenue Group – Sites 114, 132, 133, 135, 137, and 143, Jersey City, NJ* . August 13, 2013.

Qualifiers:

- J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
- JB - Analyte concentration is greater than 3 times, but less than 10 times the concentration in the associated method blank. Presence of that analyte in the sample is considered "real". The concentration is quantitatively qualified (JB) due to method blank contamination.
- U - Indicates that the analyte was not detected at the reported Method Detection Limit.
- UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.
- R - Indicates that the result for this analyte was rejected due to serious deficiencies; the presence or absence of the analyte could not be confirmed.
- RA - Indicates that the result for this analyte has been rejected, but is useable.

Definitions:

- bgs - below ground surface
- CAS RN - Chemical Abstract Service Registry Number
- Cr⁺⁶ - Hexavalent Chromium
- CrSCC - NJDEP Interim Chromium Soil Cleanup Criteria
- ft - feet or foot
- mg/kg - milligrams per kilogram
- MSSRS - Most Stringent Soil Remediation Standard - NJDEP (i.e., CrSCC)
- NJDEP - New Jersey Department of Environmental Protection
- NAVD88 - feet in the North American Vertical Datum of 1988
- SDG - Sample Delivery Group
- *X* at the end of the Sample ID indicates field duplicate sample