

ATTACHMENT 4

***COMPLETE SUMMARY LABORATORY ANALYTICAL DATA
INCLUDING EXCAVATED EXCEEDANCES TABLES***

**Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I**

Client Sample ID:					PPG63/65_B01	PPG63/65_B01R2 (B01R)	PPG63/65_B02*	PPG63/65_B03*	PPG63/65_B04*	PPG63/65_DUP- B04	PPG63/65_B05	PPG 63/65_B06	PPG63/65_B06R	PPG63/65_B06R2	PPG 63/65_B07*	PPG 63/65_B08
Sample Depth (ft bgs):		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	3-3.5	5.8-6.3	3.5-4.0	4.0-4.5	2.0-2.5	2.0-2.5	2.0-2.5	4.3-4.8	4.3-4.8	4.8-5.3	6-6.5	4.7-5.2
Sample Elevation (ft msl):					4.5-5	1.7-2.2	4.5-5	3.5-4	5.5-6	5.5-6	5.5-6	3.5-4	3.5-4	3-3.5	1.5-2	3-3.5
Excavated:					EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	
Lab Sample ID:					JB69910-1	JB85013-3	JB69910-3	JB69910-4	JB69910-7	JB69910-12	JB69910-9	JB71454-1	JB75226-1	JB86481-1	JB71454-2	JB72034-6
Date Sampled:					6/19/2014	12/22/2014	6/19/2014	6/19/2014	6/19/2014	6/19/2014	6/19/2014	7/9/2014	8/28/2014	1/14/2015	7/10/2014	7/18/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	9 NJ-	<2.5	<2.1 NJ-	<2.1 NJ-	<4.1 NJ-	<3.8 NJ-	<2.3 NJ-	<2.2 NJ-	3	<2.6 NJ-	<2.0 NJ-	<2.1
Chromium	mg/kg	120,000	-	-	4340	22.6	864	2670	1060 J	534 J	211	1370	3990	89.6 *J	47.6	285 NJ+
Nickel	mg/kg	23000	1600	205**	48	14.8	29	47	26	22.7	27.9	20.1	20 NJ-	<5.2	13.5	18.7
Thallium	mg/kg	79	5	3	<1.9	<1.2	<1.0	<1.0	<2.1	<1.9	<1.2	<1.1	<1.2	<1.3	<0.99	<1.1
Vanadium	mg/kg	1100	390	NA	22	22.9	43.8	75.6	48.1	40.4	22	39.3	104 NJ-	<6.5	23.5	34.9

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	1	3.8 / <0.51	0.66	2	0.92 J	3.3 J	4	109 NJ- / 26.7 NJ-	10.5 *NJ-	2.4 NJ- / 3.7 NJ-	3.2 NJ- / 2.3 NJ-	1.3 NJ-
Iron, Ferrous	%	-	-	-	-	1.6	-	-	-	-	-	-	-	0.45	-	-
pH	su	-	-	-	7.52	8.65	7.49	8.24	6.85	6.75	7.51	7.92	8.64	8.2	9.55	7.77
Redox Potential Vs H2	mv	-	-	-	375	180	327	322	354	395	408	357	72.1	193	105	259
Solids, Percent	%	-	-	-	81.4	78.4	82.8	77.4	81.9	85.3	83	84	86.2	77.6	84.1	86
Sulfide Screen		-	-	-	-	NEGATIVE	-	-	-	-	-	-	-	NEGATIVE	-	-
Total Organic Carbon	mg/kg	-	-	-	-	6260	-	-	-	-	-	-	-	26000	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.
- J - The reported result is an estimated value.
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- N - The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

^b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^c - Multiple injections indicate possible sample non-homogeneity.

^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics

+ - Sample excavated due to constructability in order to slope out to waterline.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_B09	PPG63/65_B12 (B09R)	PPG63/65_B16 (B09R2/ B12R)	PPG63/65_B10	PPG63/65_B11	PPG63/65_B13 (B11R)	PPG 63/65_B14	PPG 63/65_B15	PPG 63/65_B19 (B15R)	PPG63/65_B19R (B15R2)
Sample Depth (ft bgs):				5.6-6.1	5.6-6.1	7.6-8.1	5.2-5.7	5.7-6.2	6.7-7.2	6-6.5	5.9-6.4	7.9-8.4	9.3-9.8
Sample Elevation (ft msl):				2-2.5	2-2.5	0-0.5	2.5-3	2-2.5	1-1.5	1-1.5	1-1.5	-1-(-0.5)	-2.8 - (-2.3)
Excavated:				EXCAVATED	EXCAVATED			EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	
Lab Sample ID:				JB73044-1	JB73863-1	JB74072-1	JB73044-2	JB73044-3	JB73863-2	JB73940-1	JB73940-2	JB74503-2	JB88436-1
Date Sampled:				7/31/2014	8/12/2014	8/14/2014	7/31/2014	7/31/2014	8/12/2014	8/13/2014	8/13/2014	8/20/2014	2/18/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.2 NJ-	8.7	<2.3 NJ-	<2.3 NJ-	<2.2 NJ-	<2.5	<2.5 NJ-	<2.2 NJ-	3.3 NJ-	<5.4 NJ-
Chromium	mg/kg	120,000	-	-	1100	1540	21.6	136	702	30.2	318	1550	2890 *NJ	23.6
Nickel	mg/kg	23000	1600	205**	12.3	13.5	16 NJ-	17.5	18	12.9	16.3	14.6	18.9 *NJ	16.5
Thallium	mg/kg	79	5	3	<1.1	<1.1	<1.1	<1.1	<1.1	<1.3	<1.2	<1.1	<1.1	<2.7
Vanadium	mg/kg	1100	390	NA	40.6	38.5	30.6	32.2	31.7	23.2	42	34.2	80.2	32.9

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	53.8 *J	114 *NJ- / 30.8	0.76 *NJ- / 0.48 *NJ-	3.4 *J	33 *J	<0.51 / 5.5 *NJ-	6.3 NJ- / 2.1 *NJ-	70.2 NJ- / 23.2 *NJ-	20.1 *NJ- / 24.3 NJ-	<1.1 NJ- / <1.1 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	1.4
pH	su	-	-	-	10.2	10.2	8.8	8.25	10.09	8.99	10.23	10.89	10.31	8.48
Redox Potential Vs H2	mv	-	-	-	219	162	241	265	191	165	-98.1	138	-40.1	255
Solids, Percent	%	-	-	-	90.7	89	88.3	84.6	87.3	78	82.2	85	89.1	37.3
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	116000

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+ - Sample excavated due to constructability in order to slope out to waterline.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

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Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_B17	PPG 63/65_B20 (B17R)	PPG 63/65_B18	PPG63/65_B18R	PPG63/65_B23 (B18R2)	PPG 63/65_B21	PPG63/65_B22	PPG 63/65_B24	PPG 63/65_B24R	PPG 63/65_B25	PPG 63/65_B26
Sample Depth (ft bgs):				6.4-6.9	7.9-8.4	4.6-5.1	4.6-5.1	6.1-6.6	6.4-6.9	6.1-6.6	4.4-4.9	6.9-7.4	6.7-7.2	7-7.5
Sample Elevation (ft msl):				0.5-1	-1(-0.5)	2.5-3	2.5-3	1-1.5	0.5-1	1-1.5	3-3.5	0.5-1.0	0-0.5	-0.3-0.2
Excavated:				EXCAVATED		EXCAVATED	EXCAVATED			EXCAVATED				
Lab Sample ID:				JB74072-2	JB74503-3	JB74503-1	JB74943-2	JB75142-2	JB74503-4	JB75142-1	JB75943-1	JB79265-2	JB76736-1	JB76736-2
Date Sampled:				8/14/2014	8/20/2014	8/19/2014	8/22/2014	8/27/2014	8/20/2014	8/27/2014	9/8/2014	10/15/2014	9/16/2014	9/16/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.5 NJ-	<2.3 NJ-	<2.3 NJ-	7.2 NJ-	<2.3	<2.3 NJ-	<2.2	10.1 NJ-	<4.9 NJ-	<2.3 NJ-	<2.4 NJ-
Chromium	mg/kg	120,000	-	-	2800	57.3 *NJ	2150 *NJ	1490	1260	15.7 *NJ	34	934	63.1	21 EJ	19.2 EJ
Nickel	mg/kg	23000	1600	205**	15.6 NJ-	15.2 *NJ	12 *NJ	17.9	14.4 NJ-	13.9 *NJ	14.6 NJ-	14.4	12.9	18.1	14.7
Thallium	mg/kg	79	5	3	<1.2	<1.2	<1.2	<1.1	<1.2	<1.1	<1.1	<1.2	<2.5	<1.2	<1.2
Vanadium	mg/kg	1100	390	NA	30.2	26.4	33.4	34.9	36.3 NJ-	22	33.1 NJ-	26.1	24.8	27.4 EJ	25.1 EJ

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	67.2 *NJ- / 50.4 *NJ-	2.6 *NJ- / <0.46 NJ-	84.6 *NJ- / 88.9 *NJ	2.6 *NJ- / 5.8 NJ-	0.79 NJ- / 7.2 NJ-	0.69 *NJ- / <0.46 NJ-	1.5 NJ- / 0.8 NJ-	17.4 NJ- / 29.9 NJ-	<0.99 NJ+ / 2.2	<0.46 NJ-	<0.48 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	0.97	-	-	-	-	-	-
pH	su	-	-	-	11.06	9.58	10.21	9.76	10.48	8.56	9.8	9.18	8.5	7.85	8.26
Redox Potential Vs H2	mv	-	-	-	117	13.6	156	314	-95.4	96.7	143	210	185	201	190
Solids, Percent	%	-	-	-	83.3	87.1	87.1	88	82.2	86.9	87.8	84.6	40.6	86.6	83.5
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	NEGATIVE	-	-	-	-	-	-

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**Table 4A
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Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I**

Client Sample ID:				PPG 63/65_DUP-B26	PPG 63/65_B27	PPG 63/65_B27R	PPG 63/65_B28	PPG 63/65_B29	PPG 63/65_B30	PPG 63/65_B31	PPG 63/65_B32	PPG 63/65-B33	PPG 63/65-DUP-B33	PPG 63/65-B34	PPG 63/65_B35
Sample Depth (ft bgs):				7-7.5	6.7-7.2	8.6-9.1	6.7-7.2	7.8-8.3	5.2-5.8	7.6-8.1	4.8-5.3	0.2-0.7	0.2-0.7	0.6-1.1	4.7-5.2
Sample Elevation (ft msl):				-0.3-0.2	0.7-1.2	-1.2 - (-0.7)	0.8-1.3	-0.8 - (-0.3)	2.7-3.3	-0.2-0.3	3.2-3.7	9-9.5	9-9.5	7.9-8.4	2.8-3.3
Excavated:					EXCAVATED										
Lab Sample ID:				JB76736-3	JB77329-1	JB77761-2	JB77329-2	JB77761-1	JB79068-1	JB79265-1	JB79265-3	JB79649-3	JB79649-13	JB79649-6	JB80083-1
Date Sampled:				9/16/2014	9/23/2014	9/25/2014	9/23/2014	9/25/2014	10/13/2014	10/15/2014	10/15/2014	10/20/2014	10/20/2014	10/20/2014	10/24/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.4 NJ-	4.2 NJ-	<4.8 NJ-	<2.3 NJ-	2.9	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.8 NJ-
Chromium	mg/kg	120,000	-	-	20.4 EJ	4790	389	69	3640	120	43.2	148	96.5	109	56	22.7
Nickel	mg/kg	23000	1600	205**	13.6	16	11.3	16.5	12.7	11.2	13.1	14.1	21.5	21.4	33.9	13.8
Thallium	mg/kg	79	5	3	<1.2	<1.1	<2.4	<1.1	<6.3 ^a	<1.1	<1.2	<1.2	<1.1	<1.1	<1.1	<1.4
Vanadium	mg/kg	1100	390	NA	24.8 EJ	59.3	42.3	29	62.9	19	25.2	13.5	28.9	27.7	54.4	20.4

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	<0.47 NJ-	41.5 *NJ+	2.0 NJ-	0.95 *NJ+	0.6 NJ-	5.6	4.9 NJ+ / 0.84	14.4 NJ+ / 13	2.5 *NJ- / 1.3 *NJ-	1.9 *NJ- / 1 *NJ-	1.9 *NJ- / 3.1 *NJ-	0.56 NJ- / 1.4 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4
pH	su	-	-	-	7.93	10.41	8.88	9.16	9.72	7.93	9.61	7.91	7.54	6.91	7.64	8.46
Redox Potential Vs H2	mv	-	-	-	168	174	41.5	196	-86.7	255	137	278	616	547	522	231
Solids, Percent	%	-	-	-	84.9	89.6	40	90	78.5	86.9	82.6	81.2	89.5	90.4	93.5	73.2
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11700

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Client Sample ID:				PPG 63/65_B36	PPG 63/65_B37	PPG63/65_B38	PPG63/65_B39	PPG63/65_B40	PPG 63/65_B41	PPG 63/65_B42	PPG 63/65_DUP-B42	PPG 63/65_B43	PPG 63/65_B43R	PPG 63/65_B44	PPG63/65_B44R	PPG 63/65_B45
Sample Depth (ft bgs):		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	5.9-6.4	6.2-6.7	0-0.5	1-1.5	1.4-1.9	7.1-7.6	8.4-8.9	8.4-8.9	6.9-7.4	8.7-9.2	3-3.5	4-4.5	4-4.5
Sample Elevation (ft msl):				1.6-2.1	1.3-1.8	9-9.5	8-8.5	7.7-8.2	0.3-0.8	-1-(-0.5)	-1-(-0.5)	0.5-1	-0.8 - (-1.3)	4.5-5	3.5-4	3.5-4
Excavated:												EXCAVATED	EXCAVATED			
Lab Sample ID:				JB80083-2	JB80083-3	JB80262-2	JB80262-3	JB80262-5	JB80445-2	JB80445-3	JB80445-5	JB80445-4	JB80851-5	JB80538-2	JB82305-1	JB80538-4
Date Sampled:				10/24/2014	10/24/2014	10/28/2014	10/28/2014	10/28/2014	10/29/2014	10/29/2014	10/29/2014	10/29/2014	11/4/2014	10/30/2014	11/19/2014	10/30/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.5 NJ-	<2.5 NJ-	<2.3 NJ-	<2.1 NJ-	<2.1 NJ-	<2.7 NJ-	<5.6 NJ-	<2.3 NJ-	<2.7 NJ-	<6.9 NJ ^a	<2.5 NJ-	<2.0 NJ-	<2.4 NJ-
Chromium	mg/kg	120,000	-	-	2110	18.3	55.4 NJ+	95.1 NJ+	122 NJ+	2920 NJ-	56.9 NJ-	15.9 NJ-	951 NJ	128 NJ-	2490	17.7	16.2
Nickel	mg/kg	23000	1600	205**	18.6	14.2	22.9	46.5	50.8	12.6	30.4 J	9 J	24.3 J	<14	16.1	13.5	12.7
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.1	<1.1	<1.0	<1.3	<2.8	<1.2	<1.3	<3.4 ^a	<1.2	<0.98	<1.2
Vanadium	mg/kg	1100	390	NA	48	22.6	27.4	41.8	43.7	41.8	44.2 J	16.2 J	47.7	22.3	70.3	27.3	21.3

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	19 NJ- / 2.3 NJ-	<0.51 NJ-	4.7 NJ- / 4 NJ-	2.6 NJ- / 1.6 NJ-	4.5 NJ- / 3.8 NJ-	14.3 NJ- / 5.1 NJ-	2 NJ- / <1.2 NJ-	<0.49 NJ- / 2.4 NJ-	22.2 NJ- / 7.3 NJ-	<1.4	24.1 NJ- / 100 *NJ-	1.4	1.3 NJ / <0.48 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	0.52	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	9.32	8.41	7.7	7.48	7.76	9.67	8.8	8.54	10.6	7.74	8.57	8.2	7.88
Redox Potential Vs H2	mv	-	-	-	152	183	298	290	301	52.9	93.3	184	84.2	259	335	167	141
Solids, Percent	%	-	-	-	81.5	78.2	89.4	92	91.2	74.6	34.4	81.2	72.8	28.2	79.6	73.4	82.9
Sulfide Screen		-	-	-	-	-	-	NEGATIVE	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	32800	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.
- J - The reported result is an estimated value.
- *J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
- EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.
- N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

^b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^c - Multiple injections indicate possible sample non-homogeneity.

^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics

+ - Sample excavated due to constructability in order to slope out to waterline.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG 63/65_B46	PPG 63/65_B47	PPG 63/65_B48	PPG 63/65_B49	PPG 63/65_B50	PPG 63/65_B50R	PPG 63/65_B51	PPG 63/65_B52	PPG 63/65_B53	PPG 63/65_B55	PPG 63/65_B56	PPG 63/65_B57	PPG 63/65_B58
Sample Depth (ft bgs):				4.2-4.7	5.1-5.6	3.8-4.3	3.9-4.4	0-0.5	2-2.5	0-0.5	4.2-4.7	3.5-4	1.5-2	3.2-3.7	1.9-2.4	0.5-1
Sample Elevation (ft msl):				3.3-3.8	2.8-3.3	3.7-4.2	4.3-4.8	8-8.5	6-6.5	7.2-7.7	3.3-3.8	4-4.5	7.2-7.7	4.9-5.4	5.3-5.8	6.7-7.2
Excavated:								EXCAVATED								
Lab Sample ID:				JB80538-6	JB80640-1	JB80640-3	JB80851-4	JB80992-3	JB81729-5	JB80992-4	JB80992-5	JB80992-6	JB81497-1	JB81729-3	JB82085-4	JB82085-5
Date Sampled:				10/30/2014	10/31/2014	10/31/2014	11/4/2014	11/5/2014	11/13/2014	11/5/2014	11/5/2014	11/5/2014	11/10/2014	11/12/2014	11/18/2014	11/18/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Element	Unit	450	31	6	<2.5 NJ-	<2.2	<2.4	<2.4 NJ-	<2.4 NJ-	<2.2 NJ-	<2.5 NJ-	<2.6 NJ-	<2.4 NJ-	<2.2 NJ-	<2.7 NJ-	<2.6 NJ-	<2.2 NJ-
Antimony	mg/kg	450	31	6	<2.5 NJ-	<2.2	<2.4	<2.4 NJ-	<2.4 NJ-	<2.2 NJ-	<2.5 NJ-	<2.6 NJ-	<2.4 NJ-	<2.2 NJ-	<2.7 NJ-	<2.6 NJ-	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	22.6	367 NJ+	649 NJ+	15.2 NJ-	232 NJ-	99.5 *NJ	124 NJ-	123 NJ-	10.8 NJ-	49.3 ENJ+	19.5 *NJ	129 *NJ	99.9 *NJ
Nickel	mg/kg	23000	1600	205**	14.6	15.2	14.4	11.4	65.7	59.2 NJ-	57	15.3	10.5	10	12.8 NJ-	26.2 NJ-	13.3 NJ-
Thallium	mg/kg	79	5	3	<1.2	<1.1	<1.2	<1.2	<1.2	<1.1 NJ-	<1.2	<1.3	<1.2	<1.1	<1.3 NJ-	<1.3 NJ-	<1.1 NJ-
Vanadium	mg/kg	1100	390	NA	21.6	32.9	32.8	22	42.6	25.7 NJ-	42.3	23.7	14.3	17.5 EJ	23.6 NJ-	35.6 NJ-	20.6 NJ-

General Chemistry

Parameter	Unit	20	-	-	1.8 NJ- / <0.48 *NJ-	5.7 NJ- / 3 NJ-	8 NJ- / 12.5 NJ-	<0.47	44.8 *NJ- / 1.3 NJ-	0.94 *NJ- / 0.88 NJ-	0.49 *NJ- / 2.4 NJ-	2.1 *NJ- / 1.4 NJ-	4.4 *NJ- / 1.1NJ-	2.4 NJ- / 4.6 NJ-	<0.53 *NJ- / <0.53 NJ-	<0.53	8.5
Chromium, Hexavalent	mg/kg	20	-	-	1.8 NJ- / <0.48 *NJ-	5.7 NJ- / 3 NJ-	8 NJ- / 12.5 NJ-	<0.47	44.8 *NJ- / 1.3 NJ-	0.94 *NJ- / 0.88 NJ-	0.49 *NJ- / 2.4 NJ-	2.1 *NJ- / 1.4 NJ-	4.4 *NJ- / 1.1NJ-	2.4 NJ- / 4.6 NJ-	<0.53 *NJ- / <0.53 NJ-	<0.53	8.5
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.95	8.62	8.01	7.89	7.76	8.6	8.24	8.3	8.29	9.22	7.24	8.59	9.02
Redox Potential Vs H2	mv	-	-	-	139	166	97.7	233	279	272	277	107	121	286	119	338	276
Solids, Percent	%	-	-	-	83.3	84.9	81.6	85.2	85.7	93.2	84.3	77	82.3	89.3	76	75.3	88
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.
- J - The reported result is an estimated value.
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- N - The matrix spike sample recovery in the associated QC sample is not within QC limits.

- J+ - The result is estimated and may be biased high.
- J- - The result is estimated and may be biased low.
- R - The reported result is rejected .

Notes:

- ** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.
- ^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.
- ^b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.
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- ^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

- # = Sample deemed usable due to acceptable insoluble recovery and secondary analytics
- + - Sample excavated due to constructability in order to slope out to waterline.
- ft msl = feet mean sea level
- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts

Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG 63/65_B59	PPG 63/65_B60	PPG 63/65_DUP-B60	PPG63/65_B61	PPG 63/65_B61R (mislabelled B62R)	PPG63/65_B61R2 (B01R)	PPG63/65_B62	PPG63/65_B63	PPG 63/65_B64	PPG63/65_B64R#
Sample Depth (ft bgs):				1.7-2.2	2.1-2.6	2.1-2.6	3.2-3.7	4.6-5.1	5.8-6.3	2.8-3.3	2.4-2.9	7.3-7.8	9.6-10.1
Sample Elevation (ft msl):				5.5-6.0	5.1-5.6	5.1-5.6	4.3-4.8	2.9-3.4	1.7-2.2	4.8-5.3	4.8-5.3	-0.3-0.2	-3.1 - (-2.6)
Excavated:							EXCAVATED	EXCAVATED				EXCAVATED	
Lab Sample ID:				JB82617-2	JB82617-3	JB82617-4	JB83152-2	JB84204-1	JB85013-3	JB83152-5	JB83152-7	JB83716-1	JB85013-4
Date Sampled:				11/24/2014	11/24/2014	11/24/2014	12/2/2014	12/12/2014	12/22/2014	12/3/2014	12/3/2014	12/8/2014	12/23/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.6 NJ-	<2.1 NJ-	<2.6 NJ-	3.7 NJ-	<2.6 NJ-	<2.5 NJ-	<3.0 NJ-	<2.3 NJ-	23.7 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	1060 NJ+	31.6 NJ+	22.7 NJ+	3220	2220	22.6	905	68.9	26600	12.5
Nickel	mg/kg	23000	1600	205**	30.9	16.3	15.9	15.9	15.1	14.8	18.6	20	30.3	11
Thallium	mg/kg	79	5	3	<1.3	<1.0	<1.3	<1.3	<1.3	<1.2	<1.5	<1.1	<10	<1.1
Vanadium	mg/kg	1100	390	NA	59.2	18.7	16.7	26.7	25.7	22.9	34.4	27.1	86.1	19.6

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	16.2	<0.43	<0.52	17.7 NJ- / 158	34.9 NJ+ / 93.5 NJ-	3.8 *NJ- / <0.51	<0.61 NJ- / 2.2 *NJ-	0.72 NJ- / 1.1 *NJ-	42.3 *NJ- / 251 *NJ-	<0.46 *NJ- / <0.46 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	1.6	-	-	1.5	-
pH	su	-	-	-	8.44	7.56	7.52	8.65	8.87	8.65	7.43	7.13	11.44	8.54
Redox Potential Vs H2	mv	-	-	-	288	284	282	182	326	180	251	205	30.5	174
Solids, Percent	%	-	-	-	74.8	93.6	76.4	76.7	78.2	78.4	66.1	84	49.2	86.8
Sulfide Screen		-	-	-	-	-	-	-	-	NEGATIVE	-	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	6260	-	-	237000	-

Analytical Data Qualifiers:

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ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_DUP-B64R	PPG 63/65_B66	PPG 63/65_B68	PPG63/65_B69	PPG63/65_B71	PPG63/65_B72	PPG63/65_B73	PPG63/65_B74#	PPG63/65_B75	PPG63/65_B75R	PPG63/65_B76	PPG63/65_B77
Sample Depth (ft bgs):				9.6-10.1	8.1-8.6	6.5-7	5.5-6	4.2-4.7	3.7-4.2	0.7-1.2	9.8-10.3	2.3-2.8	2.4-2.9	7.5-8	5.1-5.6
Sample Elevation (ft msl):				-3.6 - (-3.1)	0.4(-0.1)	0.1(-0.4)	2.5-3	3.9-4.4	4.3-4.8	6.8-7.3	-2.9(-2.4)	5.8-6.3	5.7-6.2	-0.7(-0.2)	1.7-2.2
Excavated:										EXCAVATED		EXCAVATED			EXCAVATED
Lab Sample ID:				JB85013-5	JB84204-2	JB84204-3	JB84487-2	JB85013-1	JB85013-2	JB85013-7	JB85287-1	JB85287-2	JB86000-2	JB85756-1	JB85840-1
Date Sampled:				12/23/2014	12/12/2014	12/12/2014	12/17/2014	12/22/2014	12/24/2014	12/30/2014	12/30/2014	12/30/2014	1/8/2015	1/5/2015	1/7/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

	mg/kg	450	31	6	<2.3 NJ-	<2.5 NJ-	<2.8 NJ-	<2.5 NJ-	<2.2 NJ-	<2.4 NJ-	<2.6 NJ-	<3.0 NJ-	<2.6 NJ-	<2.6 NJ-	<2.4 NJ-	<2.5 NJ-
Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.5 NJ-	<2.8 NJ-	<2.5 NJ-	<2.2 NJ-	<2.4 NJ-	<2.6 NJ-	<3.0 NJ-	<2.6 NJ-	<2.6 NJ-	<2.4 NJ-	<2.5 NJ-
Chromium	mg/kg	120,000	-	-	19.3	138	305	84.9	29.8	14.8	319	630	656	24.4	30.2	419
Nickel	mg/kg	23000	1600	205**	10.1	13.7	26.9	17.7	14.2	12.8	20.9	9.7	38.2	15.5	14.8	15.1
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.4	<1.2	<1.1	<1.2	<1.3	<1.5	<1.3	<1.3	<1.2	<1.2
Vanadium	mg/kg	1100	390	NA	20.8	28	33.5	30.6	29	22.9	35.5	16.8	74.4	33.9	31 EJ	33.5 EJ

General Chemistry

	mg/kg	20	-	-	0.61 *NJ- / <0.46	2.4 NJ+ / <0.50 NJ-	<0.57 N / <0.57 NJ-	<0.50 *NJ	0.73 *NJ- / <0.47 NJ-	<0.50 *NJ- / <0.50 NJ-	<0.51 *NR	<0.59 NJ	20.6 NJ	<0.51NJ-	<0.47 NJ- / 0.56 NJ-	3.5 *NJ- / 43.6 *NJ-
Chromium, Hexavalent	mg/kg	20	-	-	0.61 *NJ- / <0.46	2.4 NJ+ / <0.50 NJ-	<0.57 N / <0.57 NJ-	<0.50 *NJ	0.73 *NJ- / <0.47 NJ-	<0.50 *NJ- / <0.50 NJ-	<0.51 *NR	<0.59 NJ	20.6 NJ	<0.51NJ-	<0.47 NJ- / 0.56 NJ-	3.5 *NJ- / 43.6 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4 ^b	1.2
pH	su	-	-	-	7.63	7.31	8.42	7.37	7.5	8.15	7.72	8.33	6.61	8.46	7.74	10.73
Redox Potential Vs H2	mv	-	-	-	183	250	266	65.9	184	216	210	308	358	202	159	106
Solids, Percent	%	-	-	-	86.3	80.8	70.2	80.5	84.8	80.5	78.4	67.4	74.4	79.1	84.9	78.9
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	NEGATIVE ^d	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	933	1460

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- mg/kg = milligram per kilogram
- su = standard unit
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Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_B77R	PPG63/65_B78	PPG63/65_B79	PPG63/65_B80	PPG63/65_B81	PPG 63/65_B83 ⁺	PPG 63/65_B84	PPG63/65_B89	PPG63/65_B90	PPG63/65_B91	PPG63/65_B92	PPG63/65_B93	PPG63/65_B94
Sample Depth (ft bgs):				7.6-8.1	1.7-2.2	5.1-5.6	5.1-5.6	2.1-2.6	1.8-2.3	4.1-4.6	2.8-3.3	3.1-3.6	3.1-3.6	3.6-4.1	2.6-3.1	1.4-1.9
Sample Elevation (ft msl):				-0.5-0.0	6.2-6.7	1-1.5	3-3.5	5.8-6.3	5-5.5	3.7-4.2	5.8-6.3	5.5-6.0	5-5.5	5-5.5	6-6.5	7.2-7.7
Excavated:									EXCAVATED							
Lab Sample ID:				JB86481-2	JB85840-2	JB86000-3	JB86000-4	JB86141-5	JB86495-3	JB86669-1	JB87496-1	JB87496-2	JB87496-3	JB87595-1	JB87701-1	JB87701-2
Date Sampled:				1/14/2015	1/7/2015	1/9/2015	1/9/2015	1/12/2015	1/16/2015	1/16/2015	2/2/2015	2/3/2015	2/3/2015	2/4/2015	2/5/2015	2/5/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.6 NJ-	<2.4 NJ-	<2.5 NJ-	<2.7 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.5 NJ-	<2.2 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	56.3 *J	65.4	8.8	12	20.8	174	15.9	22.1	27.5	13.4	12.8	15.9	19.3
Nickel	mg/kg	23000	1600	205**	12.1	28.8	8.8	11.6	14.3	16.2	12.1	17.5	14.4	10.5	10.7	13	16.7
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.2	<1.2	<1.4	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.2
Vanadium	mg/kg	1100	390	NA	27.2	53.7 EJ	9.9	18.6	16.1	34.7	17	27.2	37.6	18.9	17.3	24.6	28.6

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	2.4 NJ- / 0.9 NJ-	<0.55 *NJ- / 0.58 *NJ-	<0.48 *NJ-	<0.49 *NJ-	<0.55 *NJ	0.48 *J	<0.47 NJ- / <0.47 NJ-	0.74 NJ- / 0.55	<0.46 NJ- / 0.92	<0.51 NJ- / 0.91	<0.50 NJ- / 0.5NJ-	<0.44	<0.46
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	0.57	-	-	-	0.87	-	-
pH	su	-	-	-	8.79	7.41	7.92	7.82	7.65	8.99	8	7.22	8.18	7.21	7.13	7.89	7.86
Redox Potential Vs H2	mv	-	-	-	166	245	231	183	344	234	356	222	230	207	205	350	203
Solids, Percent	%	-	-	-	88	72.6	83.1	82	73.2	86.6	84.7	82.9	87.4	78.8	79.4	90.3	86.4
Sulfide Screen		-	-	-	-	-	-	-	-	-	NEGATIVE	-	-	-	NEGATIVE	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	4050	-	-	-	20600	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.
- J - The reported result is an estimated value.
- *J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
- EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.
- N - The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

^b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^c - Multiple injections indicate possible sample non-homogeneity.

^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics

+ - Sample excavated due to constructability in order to slope out to waterline.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_B95	PPG63/65_B97	PPG63/65_B104	PPG63/65_B105	PPG63/65_B106	PPG63/65_B107	PPG 63/65_B108	PPG 63/65_B109	PPG63/65_B110	PPG63/65_B111	PPG63/65_B111R	PPG63/65_B112
Sample Depth (ft bgs):				3.9-4.4	1.1-1.6	1.9-2.4	1.6-2.1	5.5-6	1.5-2	4.3-4.8	4.1-4.6	3.3-3.8	2.2-2.7	4.5-5	4.6-5.1
Sample Elevation (ft msl):				4.7-5.2	6.2-6.7	6.7-7.2	6.3-6.8	5-5.5	8-8.5	5-5.5	5.2-5.7	5.5-6	6.2-6.7	4.2-4.7	4.2-4.7
Excavated:													EXCAVATED		EXCAVATED
Lab Sample ID:				JB87890-1	JB87981-4	JB88725-4	JB88785-2	JB92520-1	JB92520-2	JB92632-1	JB92632-4	JB92766-1	JB92766-6	JB93212-1	JB92766-8
Date Sampled:				2/6/2015	2/10/2015	2/24/2015	2/25/2015	4/15/2015	4/15/2015	4/16/2015	4/16/2015	4/17/2015	4/17/2015	4/24/2015	4/17/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.6 NJ-	<2.8 NJ-	<2.6 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.2 NJ-	13 NJ-	<2.4 NJ-	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	55.3	21.9	72.6	22.6	24.2 EJ	155 EJ	35.1 EJ	18.1	5740	13.6	295	
Nickel	mg/kg	23000	1600	205**	11.3	33.1	31.1	10.8	16.6	19.5	18	23	14.9	26.8	11.1	21.4
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.4	<1.3	<1.1	<1.2	<1.1	<1.1	<1.1	<1.4	<1.2	<1.3
Vanadium	mg/kg	1100	390	NA	15.4	26.6	55.6	18.3	27.4	45.2	41.3	47.5	28.1	89.8	19.9	80.3

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	6.7 *NJ- / 10.2 NJ-	<0.50	<0.57 NJ- / 0.63 NJ-	<0.51 NJ- / 4.7 NJ-	<0.46 NJ- / 0.52 NJ-	6.7 NJ- / 14.4 NJ-	0.95	1.1	<0.46 *NJ- / <0.46 NJ-	357 *NJ- / 23.5 NJ-	<0.49 NJ- / <0.49 NJ-	2.5 *NJ- / 3.6 NJ-
Iron, Ferrous	%	-	-	-	-	-	0.72	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.9	7.03	8.04	8.09	8.27	8.08	6.87	6.71	7.93	6.97	7.66	7.78
Redox Potential Vs H2	mv	-	-	-	419	203	365	223	225	273	258	233	325	307	226	354
Solids, Percent	%	-	-	-	82.6	80.3	69.8	78.6	86.8	85.9	85.4	85.5	86.8	67.8	82	79
Sulfide Screen		-	-	-	-	-	NEGATIVE	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	125000	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

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R - The reported result is rejected .

Notes:

** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

^b - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^c - Multiple injections indicate possible sample non-homogeneity.

^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics

+ - Sample excavated due to constructability in order to slope out to waterline.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

**Table 4A
Base Soil Samples (2014-2016)
Complete Summary Laboratory Analytical Data Including Excavated Samples
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I**

Client Sample ID:					PPG63/65_B112R	PPG63/65_B113	PPG63/65_B114	PPG63/65_B115	PPG63/65_B116	PPG 63/65_B117	PPG63/65_B118	PPG63/65_B119	PPG63/65_B120	PPG63/65_B121
Sample Depth (ft bgs):		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	5.2-5.7	4.7-5.2	5.3-5.8	6.4-6.9	6.4-6.9	5.3-5.8	3.5-4	3.7-4.2	3.7-4.2	2.2-2.7
Sample Elevation (ft msl):					3.2-3.7	3.7-4.2	2.7-3.2	2.4-2.9	2.8-3.3	4.2-4.7	7-7.5	5.8-6.3	6.8-7.3	4.8-5.3
Excavated:														
Lab Sample ID:					JB93212-2	JB92858-4	JB92858-7	JB93021-2	JB93021-4	JB93163-3	JB93547-2	JB93547-6	JB95015-2	JC15057-1
Date Sampled:					4/24/2015	4/21/2015	4/21/2015	4/22/2015	4/22/2015	4/23/2015	4/29/2015	4/29/2015	5/19/2015	2/29/2016
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis														
Antimony	mg/kg	450	31	6	<2.4 NJ-	<2.7 NJ-	<2.7 NJ-	<2.6 NJ-	<2.4 NJ-	<2.6 NJ-	<2.3	<2.5	<2.5	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	14.8	14.1 ENJ+	13.8 ENJ+	11.2	18.4	24.1 NJ-	42.7	111	12.6	26.7 NJ+
Nickel	mg/kg	23000	1600	205**	11.4	12.9	13.5	10.1	14.4	26.6 ENJ-	19.2 EJ	20.3 EJ	10.2	13.2
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.3	<1.3	<1.2	<1.3	<1.1	<1.3	<1.2	<1.1
Vanadium	mg/kg	1100	390	NA	21.1	19.3 EJ	18 EJ	16	24.3	27.7 ENJ-	44.6	30.6	13	14.6
General Chemistry														
Chromium, Hexavalent	mg/kg	20	-	-	<0.49 NJ- / <0.49 NJ-	<0.52 NJ- / 0.53 NJ-	0.71 NJ- / <0.55 NJ-	<0.51NJ- / <0.51 NJ-	<0.50 NJ- / <0.50 NJ-	<0.53 NJ- / <0.53 NJ-	<0.46 NJ- / 2.4 *NJ-	0.77 NJ- / 0.49 *NJ-	<0.49	2 NJ- / 2.1 NJ-
Iron, Ferrous	%	-	-	-	0.9	-	-	0.81	-	-	0.76	-	12.6	0.76 ^b
pH	su	-	-	-	7.61	7.21	6.85	7	7.17	7.82	7.82	7.94	7.91	7.72
Redox Potential Vs H2	mv	-	-	-	219	198	236	195	195	177	289	250	321	343
Solids, Percent	%	-	-	-	81.7	77.5	72.9	78.8	80.5	75.2	86.3	82.4	82.3	87.8
Sulfide Screen		-	-	-	NEGATIVE	-	-	NEGATIVE	-	-	NEGATIVE	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	1440	-	-	4960	-	-	30000 J	-	-	3970 ^c

Analytical Data Qualifiers:

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- R - The reported result is rejected .

Notes:

- ** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.
- ^a - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.
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- ^c - Multiple injections indicate possible sample non-homogeneity.
- ^d - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

- # = Sample deemed usable due to acceptable insoluble recovery and secondary analytics
- + - Sample excavated due to constructability in order to slope out to waterline.
- ft msl = feet mean sea level
- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_SW01	PPG63/65_SW02	PPG63/65_SW03	PPG63/65_SW04	PPG63/65_SW05	PPG 63/65_SW06	PPG 63/65_SW07	PPG 63/65_SW08	PPG 63/65_SW09	PPG 63/65_SW10
Sample Depth (ft. bgs):				2.5-3	1-1.5	1-1.5	1.5-2	1.5-2	3-3.5	5-5.5	3-3.5	3.7-4.2	4.2-4.7
Sample Elevation (ft. msl):				5-5.5	6.5-7	6.5-7	6-6.5	6-6.5	4.5-5	2.5-3	4.5-5	4-4.5	3.5-4
Excavated:				EXCAVATED	EXCAVATED	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Lab Sample ID:				JB69910-2	JB69910-5	JB69910-6	JB69910-8	JB69910-10	JB71454-3	JB71454-4	JB71454-5	JB72034-1	JB72034-2
Date Sampled:				6/19/2014	6/19/2014	6/19/2014	6/19/2014	6/19/2014	7/10/2014	7/10/2014	7/10/2014	7/18/2014	7/18/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.0 NJ-	2 NJ-	7.1 NJ-	<2.1 NJ-	<2.2 NJ-	<2.3 NJ-	<2.0 NJ-	<2.3 NJ-	<2.3	<2.1
Chromium	mg/kg	120,000	-	-	5650	2240	7610	40.4	666	757	1010	307	150 NJ+	227 NJ+
Nickel	mg/kg	23000	1600	205**	24.8	67.8	536	12.5	36.7	22.2	11	19.8	24	20.1
Thallium	mg/kg	79	5	3	<0.98	<0.96	<2.0	<1.1	<1.1	<1.2	<0.99	<1.1	<1.2	<1.1
Vanadium	mg/kg	1100	390	-	97.8	143	541	21.1	52.2	22.1	30	46.4	14.6	12.7

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	20.4	124	217	0.45	8	30.7 NJ- / 110 NJ-	107 NJ- / 34.5 NJ-	1.7 NJ- / 10.8 NJ-	<0.48 NJ-	<0.49 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	9.41	8.39	8.34	8.5	7.94	7.94	9.18	7.91	7.6	7.35
Redox Potential Vs H2	mv	-	-	-	299	340	347	376	394	301	228	306	274	271
Solids, Percent	%	-	-	-	68.2	73.7	75.1	90	81.2	82	86	74	82.9	81.7
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

**Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I**

Client Sample ID:				PPG 63/65_SW11	PPG 63/65_SW12	PPG 63/65_DUP - SW12	PPG63/65_SW14	PPG63/65_SW15	PPG63/65_SW16	PPG63/65_SW17	PPG63/65_SW19	PPG 63/65_SW21
Sample Depth (ft. bgs):				3.2-3.7	2.7-3.2	2.7-3.2	0.3-0.8	0.3-0.8	0.3-0.8	3.1-3.6	2.6-3.1	4.3-4.8
Sample Elevation (ft. msl):				4.5-5	5-5.5	5-5.5	7-7.5	7-7.5	7-7.5	3.5-4	4.5-5	3.2-3.7
Excavated:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Lab Sample ID:				JB72034-3	JB72034-4	JB72034-7	JB73580-1	JB73580-2	JB73580-3	JB74072-3	JB74463-2	JB75943-2
Date Sampled:				7/18/2014	7/18/2014	7/18/2014	8/7/2014	8/7/2014	8/7/2014	8/14/2014	8/19/2014	9/8/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	3.9	3.2	2.9	<4.9	<6.6	<2.4	9.5 NJ-	<2.5 NJ-	2.9 NJ-
Chromium	mg/kg	120,000	-	-	524 NJ+	746 NJ+	648 NJ+	9360	10700	2280	1840	83.3	18.2
Nickel	mg/kg	23000	1600	205**	26.2	24.5	25.8	15.6	64.2	16.5	79.6 NJ-	17.2	12.5
Thallium	mg/kg	79	5	3	<1.1	<1.1	<1.0	<2.4	<3.3	<1.2	<1.2	<1.2	<1.1
Vanadium	mg/kg	1100	390	-	48.6	38.8	29.8	28.7	124	43	44.1	33.7	23.7

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	<0.47 NJ-	4.8 NJ-	1.8 NJ-	109 NJ- / 86.3 NJ+	0.68 NJ- / 110 NJ+	<0.48 NJ- / 11.2 NJ+	17.9 *NJ- / 10.1 *NJ-	0.63 NJ-	0.62 NJ- / 0.64 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	0.43	-	-	1.9	-	0.93
pH	su	-	-	-	7.76	7.83	7.86	9.88	8.13	8.33	7.94	7.81	9.33
Redox Potential Vs H2	mv	-	-	-	288	280	300	201	286	215	276	205	220
Solids, Percent	%	-	-	-	84.9	85.2	83.8	85.1	92.9	83.4	84.7	82.9	85.3
Sulfide Screen		-	-	-	-	-	-	NEGATIVE	-	-	NEGATIVE	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	219000	-	-	207000	-	1360

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J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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because analyte of concern was compliance averaged below soil remediation standard.

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG 63/65_SW22	PPG 63/65_SW23	PPG 63/65_SW24	PPG 63/65_SW25	PPG 63/65_SW25R	PPG 63/65-SW26	PPG 63/65-SW27	PPG63/65_SW27R	PPG 63/65_SW27R2
Sample Depth (ft. bgs):				4.8-5.3	3.8-4.3	2.7-3.2	3.9-4.4	1.5-2.0	0.3-0.8	0.7-1.8	0.2-0.7	1.2-1.7
Sample Elevation (ft. msl):				3.2-3.7	4.2-4.7	5.3-5.8	4.1-4.6	6.5-7	14.9-15.4	8.6-9.1	8.2-8.7	8-8.5
Excavated:						EXCAVATED	EXCAVATED			EXCAVATED	EXCAVATED	
Lab Sample ID:				JB79068-2	JB79068-3	JB79265-4	JB79265-5	JB80992-2	JB79649-1	JB79649-2	JB80262-1	JB81729-6
Date Sampled:				10/13/2014	10/13/2014	10/15/2014	10/15/2014	11/5/2014	10/20/2014	10/20/2014	10/28/2014	11/13/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.3 NJ-	3.6 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.1 NJ-	<2.2 NJ-	<2.3 NJ-	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	9.2	30.8	1130	639	123 NJ-	24.4	207	597 NJ+	377 *NJ
Nickel	mg/kg	23000	1600	205**	14	31.8	25.7	75.8	24.6	16.7	1980	52.2	50.6 NJ-
Thallium	mg/kg	79	5	3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.3 NJ-
Vanadium	mg/kg	1100	390	-	12	22.6	53.7	113	32	22.9	45.2	70.2	54.7 NJ-

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	0.62	1.6	132 NJ+ / 72.1	8.2 NJ- / 5	2.8 *NJ- / 1.5 NJ-	2.4 *NJ- / 1.7 *NJ-	8.8 *NJ- / 3.5	24.5 NJ- / 78.2 NJ-	7.2 *NJ- / <0.51 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	1.1	-	-	-	-
pH	su	-	-	-	7.51	8.17	8.32	8.59	8.16	7.94	7.9	8.07	7.73
Redox Potential Vs H2	mv	-	-	-	351	315	287	301	289	509	603	256	260
Solids, Percent	%	-	-	-	86	82.8	85	81.1	81.9	93.2	89.6	85.1	78.9
Sulfide Screen		-	-	-	-	-	-	-	NEGATIVE	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	53400	-	-	-	-

Analytical Data Qualifiers:

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EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

**Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I**

Client Sample ID:				PPG 63/65-SW28	PPG 63/65-SW29	PPG 63/65-SW30	PPG 63/65-SW31	PPG 63/65-SW32	PPG 63/65-SW33	PPG 63/65-SW34	PPG 63/65-SW35	PPG63/65 SW37
Sample Depth (ft. bgs):				0.2-0.7	0.4-0.9	0-0.5	0.5-1	0.2-0.7	1.5-2	1.5-2	1.2-1.7	0.2-0.7
Sample Elevation (ft. msl):				8-8.5	7.9-8.4	9-9.5	8.6-9.1	10.3-10.8	9-9.5	9-9.5	9.3-9.8	8.8-9.3
Excavated:												
Lab Sample ID:				JB79649-4	JB79649-5	JB79649-7	JB79649-8	JB79649-9	JB79649-10	JB79649-11	JB79649-12	JB80262-4
Date Sampled:				10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/28/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	2.9 NJ-	<2.3	<2.5 NJ-	<2.4 NJ-	<2.3 NJ-	4.4 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	160	105	190	287	146	79.3	74.3	23	232 NJ+
Nickel	mg/kg	23000	1600	205**	25.5	38.2	41.7	50.3	49	96.3	26.1	20.4	40.2
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.3	<1.2	<1.2	<3.1 ^a	<1.2	<1.1	<1.1
Vanadium	mg/kg	1100	390	-	39.1	45.9	35.6	47.1	40.5	42	33.5	25.7	37.4

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	1.1 *NJ- / 2.9 *NJ-	0.49 *NJ- / 1 *NJ-	2.0 *NJ- / <0.51 *NJ-	3.6 *NJ- / 1.6 *NJ-	0.85 *NJ- / <0.46 *NJ-	2.4 *NJ- / 1.8 *NJ-	2.7 *NJ- / 3 *NJ-	1.6 *NJ- / 1.2 *NJ-	1.9 NJ- / 4 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.75	7.39	6.9	7.61	6.93	7.64	7.11	7.17	7.53
Redox Potential Vs H2	mv	-	-	-	652	562	551	482	559	563	524	514	307
Solids, Percent	%	-	-	-	89.3	86	78.4	84.8	86.7	93	83.8	91.4	84.9
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

* - Duplicate analysis not within control limits; indeterminate bias direction.

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW38	PPG 63/65_SW38R	PPG63/65_SW39	PPG 63/65_SW40	PPG 63/65_SW41	PPG 63/65_SW42	PPG 63/65_SW43	PPG 63/65_SW44	PPG 63/65_SW45
Sample Depth (ft. bgs):					0.7-1.2	1.1-1.6	0.9-1.4	1.7-2.2	2.7-3.2	2.7-3.2	3.3-3.8	2.8-3.3	0.2-0.7
Sample Elevation (ft. msl):					7.9-8.4	7.3-7.8	8.2-8.7	6.3-6.8	4.8-5.3	4.8-5.3	4.2-4.7	4.7-5.2	8-8.5
Excavated:					EXCAVATED				EXCAVATED	EXCAVATED			EXCAVATED
Lab Sample ID:					JB80262-6	JB81368-1	JB80262-7	JB80445-1	JB80538-3	JB80538-5	JB80538-7	JB80640-2	JB80851-1
Date Sampled:					10/28/2014	11/10/2014	10/28/2014	10/29/2014	10/30/2014	10/30/2014	10/30/2014	10/31/2014	11/4/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.1 NJ-	2.8 NJ-	<2.1 NJ-	<2.2 NJ-	<2.6 NJ-	<2.3 NJ-	<2.4 NJ-	<2.3	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	235 NJ+	78.6 ENJ+	27.9 NJ+	36.6 NJ-	515	19.5	16.5	62.4 NJ+	1550 NJ-
Nickel	mg/kg	23000	1600	205**	88.8	59.2	18.5	22.9	13	16.4	14.8	24.9	58.6
Thallium	mg/kg	79	5	3	<1.0	<1.1	<1.1	<1.1	<1.3	<2.3	<1.2	<1.2	<1.2
Vanadium	mg/kg	1100	390	-	39.7	38.6 EJ	21.9	18.6	34.9	28.7	22.6	45.9	79.7

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	21.3 NJ- / 9.1 NJ-	3.5 NJ- / 5.1 NJ-	1.3 NJ- / 1.6 NJ-	3.3 NJ- / 4.1 NJ-	3.8 NJ- / 10 *NJ-	<0.47 NJ- / <0.47 *NJ-	0.66 NJ- / <0.48 *NJ-	2.2 NJ- / 1.3 NJ-	19.2
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	8.26	8.16	7.52	8.38	7.79	7.96	7.63	8.67	8.07
Redox Potential Vs H2	mv	-	-	-	295	336	302	368	152	152	178	198	219
Solids, Percent	%	-	-	-	92	90.1	90.1	89.5	79.9	84.7	83.2	87.7	85.1
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

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Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_SW46	PPG 63/65_SW47	PPG 63/65_SW49	PPG 63/65_DUP-SW49	PPG 63/65_SW50	PPG 63/65_SW51	PPG 63/65_SW52	PPG63/65_SW53	PPG 63/65_SW54
Sample Depth (ft. bgs):					1-1.5	1.1-1.6	2.4-2.9	2.4-2.9	2.8-3.3	0.7-1.2	0.5-1	0-0.5	0-0.5
Sample Elevation (ft. msl):					7.2-7.7	7.1-7.6	5.3-5.8	5.3-5.8	4.9-5.4	8-8.5	8.2-8.7	8.8-9.3	8.3-8.8
Excavated:					EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Lab Sample ID:					JB80851-2	JB80851-3	JB81368-4	JB81368-2	JB81368-3	JB81497-2	JB81497-3	JB81497-4	JB81497-5
Date Sampled:					11/4/2014	11/4/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.1 NJ-	<2.5 NJ-	<5.2 NJ-	<2.5 NJ-	<2.3 NJ-	<2.1 NJ-	<2.3 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	296 NJ-	19.6 NJ-	5060 ENJ+	7190 ENJ+	71.3 ENJ+	341 ENJ+	52.2 ENJ+	35.9 ENJ+	39.4 ENJ+
Nickel	mg/kg	23000	1600	205**	23.6	8.4	19.8	23.9	15	30.5	16.7	21.2	13.5
Thallium	mg/kg	79	5	3	<1.1	<1.1	<1.3	<2.6	<1.3	<1.1	<1.0	<1.2	<1.1
Vanadium	mg/kg	1100	390	-	45.6	17.3	156 EJ	129 EJ	29.5 EJ	67.3 EJ	31.8 EJ	32 EJ	19.8 EJ

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	1.2	<0.44	<0.51 NJ- / <0.53 NJ-	<0.53 NJ- / <0.53 NJ-	4.4 NJ- / 15 NJ-	2.6 NJ- / 7.1 NJ-	1.4 NJ- / 2.3 NJ-	0.8 NJ- / 1.8 NJ-	3.2 NJ- / 0.49 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	0.31	-	-	-	-
pH	su	-	-	-	7.62	8.04	9.31	9.33	9.25	7.99	7.94	8.02	9.06
Redox Potential Vs H2	mv	-	-	-	253	216	222	276	227	299	306	286	308
Solids, Percent	%	-	-	-	92.6	91.4	78.6	75.8	77	87.3	93.8	84.4	88.6
Sulfide Screen		-	-	-	-	-	-	-	NEGATIVE	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	9400	-	-	-	-

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R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG 63/65_SW55	PPG 63/65_SW55R	PPG 63/65_SW56	PPG 63/65_SW57	PPG63/65_SW58	PPG63/65_SW59	PPG63/65_SW60	PPG63/65_SW61	PPG63/65_SW61R
Sample Depth (ft. bgs):				1.3-1.8	1.3-1.8	0.6-1.1	0.7-1.2	1-1.5	0-0.5	0-0.5	0.4-0.9	0.4-0.9
Sample Elevation (ft. msl):				6.8-7.3	6.8-7.3	7.5-8.0	6.5-7	6.2-6.7	7.2-7.7	6.5-7	6.8-7.3	6.8-7.3
Excavated:				EXCAVATED	EXCAVATED						EXCAVATED	
Lab Sample ID:				JB81729-1	JB82617-1	JB81729-2	JB82085-1	JB82085-2	JB82085-3	JB82305-2	JB82617-5	JB83152-6
Date Sampled:				11/12/2014	11/21/2014	11/12/2014	11/18/2014	11/18/2014	11/18/2014	11/20/2014	11/24/2014	12/3/2014
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.1 NJ-	<2.1 NJ-	<2.3 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	856 *NJ	139 NJ+	185 *NJ	25 *NJ	48.5 *NJ	39.8 *NJ	33.2	615 NJ+	86.8
Nickel	mg/kg	23000	1600	205**	28.3 NJ-	17.2	22.1 NJ-	15.8 NJ-	13.8 NJ-	11.1 NJ-	7.8	9.4	15.7
Thallium	mg/kg	79	5	3	<1.1 NJ-	<1.0	<1.0 NJ-	<1.1 NJ-	<1.2 NJ-	<1.1 NJ-	<1.1	<1.2	<1.1
Vanadium	mg/kg	1100	390	-	51.8 NJ-	33.5	33.5 NJ-	23.5 NJ-	19.6 NJ-	18.6 NJ-	8	15.1	23.5

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	2.7 *NJ- / 9.2 NJ-	2.6	4.5 *NJ- / 2.1NJ-	2.1	2.4	2.7	3.4	22.5	2.5 NJ- / 3.9 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	2
pH	su	-	-	-	9.24	8.87	8.4	8.16	8.66	8.54	8.68	8.3	7.49
Redox Potential Vs H2	mv	-	-	-	227	283	248	115	318	319	269	288	303
Solids, Percent	%	-	-	-	89.5	94.4	91.9	86.3	83.6	88.7	89.9	86.3	85
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	42000

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J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW62	PPG63/65_SW63	PPG63/65_SW64	PPG 63/65_SW65	PPG63/65_SW69	PPG63/65_SW69R	PPG63/65_SW71	PPG63/65_SW72	PPG63/65_SW72R	PPG63/65_SW74
Sample Depth (ft. bgs):					2.8-3.3	2.2-2.7	1.9-2.4	0.9-1.4	0.1-0.6	0.7-1.2	1.4-1.9	0.3-0.8	0.7-1.2	0.7-1.2
Sample Elevation (ft. msl):					5.3-5.8	5-5.5	5.3-5.8	6.2-6.7	7.8-8.3	7.2-7.7	6.5-7	6.8-7.3	6.5-7.0	5.8-6.3
Excavated:					EXCAVATED	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED		EXCAVATED
Lab Sample ID:					JB83152-1	JB83152-3	JB83152-4	JB83439-1	JB84702-1	JB85139-1	JB85139-2	JB85287-3	JB86243-1	JB85287-4A
Date Sampled:					12/2/2014	12/3/2014	12/3/2014	12/4/2014	12/18/2014	12/29/2014	12/29/2014	12/30/2014	1/13/2015	12/31/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.7 NJ-	<2.3 NJ-	<3.4 NJ-	<2.2 NJ-	2.5 NJ-	<2.3 NJ-	<2.3 NJ-	<2.6 NJ-	<2.1 NJ-	19.8
Chromium	mg/kg	120,000	-	-	2460	566	228	363	3290	214 NJ+	103 NJ+	1090	293	13600
Nickel	mg/kg	23000	1600	205**	16.1	23.6	28.6	25.6	27.1	21.2	19.7	89	26.6	31.8
Thallium	mg/kg	79	5	3	<1.3	<1.2	<1.7	<1.1	<1.2	<1.2	<1.1	<1.3	<1.1	<3.7 ^a
Vanadium	mg/kg	1100	390	-	26.7	38.9	73.6	53.8	79.2	31.7	42.2	153	51.3	80.4

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	68.7 NJ- / 109	14.6 NJ- / 25.8	2.2 NJ- / 6.8 *NJ-	18.8	36.1 NJ+	4.8 NJ- / 4.6 NJ-	3.8 NJ- / 7.1 NJ-	37.4 NJ	8.3 *NJ- / 7.4 *NJ-	3.1
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	8.62	7.75	7.18	6.85	7.98	6.59	8.55	7.32	7.85	8.5
Redox Potential Vs H2	mv	-	-	-	199	250	281	278	288	295	304	348	285	340
Solids, Percent	%	-	-	-	73.8	84	61	86.5	84.4	86.9	84.9	76.7	88.8	77.9
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

* - Duplicate analysis not within control limits; indeterminate bias direction.

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** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_SW74R	PPG63/65_SW75	PPG63/65_SW76	PPG63/65_SW78	PPG63/65_SW79	PPG 63/65_SW80	PPG 63/65_SW81	PPG 63/65_SW82	PPG63/65_SW88
Sample Depth (ft. bgs):					6-6.5	0.3-0.8	3.8-4.3	0-0.5	0-0.5	0.5-1	1.4-1.9	0.8-1.3	4.8-5.3
Sample Elevation (ft. msl):					1.0-1.5	7.8-8.3	4.3-4.8	8.8-9.3	8.1-8.6	7.3-7.8	6.4-6.9	7.0-7.5	2.2-2.7
Excavated:					EXCAVATED			EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Lab Sample ID:					JB86495-1	JB86000-1	JB86141-1	JB86141-3	JB86141-4	JB86243-2	JB86243-3	JB86243-5	JB87201-5
Date Sampled:					1/16/2015	1/8/2015	1/9/2015	1/12/2015	1/12/2015	1/13/2015	1/13/2015	1/13/2015	1/28/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<5.1 NJ-	<2.3 NJ-	<2.4 NJ-	<2.3 NJ-	<2.4 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.8 NJ-
Chromium	mg/kg	120,000	-	-	6150	248	1200	406	194	391	1720	597	1300
Nickel	mg/kg	23000	1600	205**	33.8	26.5	18.1	49.3	24.7	117	31.1	55	128
Thallium	mg/kg	79	5	3	<2.6	<1.2	<1.2	<1.1	<1.2	<1.1	1.1	<1.1	<1.4
Vanadium	mg/kg	1100	390	-	107	43.3	52.1	65.8	30	65.1	101	109	184

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	256 *J	1.7 *NJ-	<0.47 *NJ	6.9 *NJ	4.5 *NJ	1.6 *NJ- / 6 *NJ-	144 *NJ- / 104 *NJ-	16.3 *NJ- / 8.7 *NJ-	7.4 *NJ-/
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	1.4	-
pH	su	-	-	-	7.48	7.02	9.09	8.66	8.91	8.21	9.01	8.74	7.66
Redox Potential Vs H2	mv	-	-	-	306	305	318	336	345	295	278	289	314
Solids, Percent	%	-	-	-	79.9	83.5	84.6	86	84.7	87.7	87	86.8	72.9
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	78900	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

* - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_SW92	PPG63/65_SW93	PPG63/65_SW107	PPG63/65_SW108	PPG63/65_SW110	PPG63/65_SW111	PPG63/65_SW114	PPG63/65_SW115	PPG63/65_SW116
Sample Depth (ft. bgs):				0.3-0.8	4.1-4.6	0.2-0.7	1.9-2.4	0-0.5	0.2-0.7	0.4-0.9	0.5-1	2.8-3.3
Sample Elevation (ft. msl):				9.2-9.7	2.3-2.8	8.8-9.3	6-6.5	10.5-11	10.3-10.7	8.1-8.6	7-7.5	7.2-7.7
Excavated:							EXCAVATED			EXCAVATED		
Lab Sample ID:				JB87890-2	JB87890-4	JB88785-1	JB88913-1	JB88913-3	JB88913-4	JB89093-1	JB89093-2	JB92520-3
Date Sampled:				2/6/2015	2/9/2015	2/25/2015	2/26/2015	2/26/2015	2/26/2015	2/27/2015	2/27/2015	4/15/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.5 NJ-	<2.1 NJ-	<2.3 NJ-	<2.2 NJ-	<2.1 NJ-	<2.4 NJ-	<2.2 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	201	16.3	13.2	1220	54.2	26.9	149	332	26.7 EJ
Nickel	mg/kg	23000	1600	205**	25.3	15.5	11.2	40.7	16.2	13.1	12.5	33.6	16.5
Thallium	mg/kg	79	5	3	<1.1	<1.3	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1
Vanadium	mg/kg	1100	390	-	45.9	17.9	16.2	77.7	35.7	39.5	15.4	51	33.4

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	4.7 *NJ- / 19.5 NJ-	<0.51 *NJ- / <0.51 NJ-	0.51 NJ- / 0.52 NJ-	59.6 NJ- / 65.7	4.7 NJ- / 3.3	1.1 NJ- / 0.71	6.6 *NJ- / 8.2 *NJ-	8.2 *NJ- / 12.7 *NJ-	0.65 NJ- / 1.3 NJ-
Iron, Ferrous	%	-	-	-	0.56	-	0.55	-	-	-	0.43	-	-
pH	su	-	-	-	7.6	8.06	8.14	8.05	7.02	8.81	5.87	7.96	7.37
Redox Potential Vs H2	mv	-	-	-	460	231	204	307	414	339	372	327	280
Solids, Percent	%	-	-	-	88.4	79	94.2	89.5	87.2	91.3	82.2	85.8	87.6
Sulfide Screen		-	-	-	NEGATIVE	-	NEGATIVE	-	-	-	NEGATIVE	-	-
Total Organic Carbon	mg/kg	-	-	-	43100	-	7280	-	-	-	169000	-	-

Analytical Data Qualifiers:

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* - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_SW117	PPG63/65_SW118	PPG63/65_SW119	PPG63/65_SW120	PPG63/65_SW121	PPG63/65_SW121R	PPG63/65_SW122	PPG63/65_SW123	PPG63/65_SW124	
Sample Depth (ft. bgs):				0.2-0.7	3.3-3.8	3.5-4.0	2.5-3.0	3.6-4.1	2.3-2.8	0.8-1.3	0.5-1.0	0.6-1.1	
Sample Elevation (ft. msl):				10.8-11.3	6-6.5	5.8-6.3	6.8-7.3	5.2-5.7	8.2-8.7	8-8.5	7.7-8.2	7.6-8.1	
Excavated:								EXCAVATED					
Lab Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	JB92520-4	JB92632-2	JB92632-3	JB92632-5	JB92766-2	JB93363-1	JB92766-3	JB92766-4	JB92766-5
Date Sampled:					4/15/2015	4/16/2015	4/16/2015	4/16/2015	4/17/2015	4/27/2015	4/17/2015	4/17/2015	4/17/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	

Metals Analysis

Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.3 NJ-	5.1 NJ-	<2.5 NJ-	<2.6 NJ-	<2.7 NJ-	<2.5 NJ-
Chromium	mg/kg	120,000	-	-	34.9 EJ	16 EJ	24.1 EJ	19.4 EJ	20.8	23.3	58.3	127	99.8
Nickel	mg/kg	23000	1600	205**	17.4	11.9	19.4	14.7	129	20.7	14	14.5	12.3
Thallium	mg/kg	79	5	3	<1.2	<1.1	<1.2	<1.2	<1.1	<1.3	<1.3	<1.4	<1.2
Vanadium	mg/kg	1100	390	-	32.3	25.8	36.8	15.5	28.1	30.3	28.2	30.4	20.6

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	1.5 NJ- / 0.53 NJ-	<0.45	3.2	1	<0.46 *NJ- / <0.46 NJ-	0.58 NJ- / 0.66 *NJ-	0.58 *NJ- / 1.1 NJ-	3.4 *NJ- / 12.7 NJ-	4.3 *NJ- / 5.6 NJ-
Iron, Ferrous	%	-	-	-	0.27	-	-	-	-	-	-	-	0.6
pH	su	-	-	-	7.79	7.11	6.86	7.66	6.53	8.85	7.74	7.98	8.29
Redox Potential Vs H2	mv	-	-	-	517	304	259	264	365	309	363	366	322
Solids, Percent	%	-	-	-	85.3	88.4	87.1	89.6	86.5	81.4	76.4	75.9	78.3
Sulfide Screen		-	-	-	NEGATIVE	-	-	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	102000	-	-	-	-	-	-	-	215000

Analytical Data Qualifiers:

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J - The reported result is an estimated value.

*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:				PPG63/65_SW125	PPG63/65_SW126	PPG63/65_SW127	PPG63/65_SW128	PPG63/65_SW128R	PPG63/65_SW129	PPG63/65_SW130	PPG63/65_SW131
Sample Depth (ft. bgs):				5-5.5	2.8-3.3	4.5-5	1.4-1.9	2.7-3.2	5-5.5	4.5-5	2.5-3.0
Sample Elevation (ft. msl):				3.3-3.8	4.7-5.2	4-4.5	6.5-7	9.8-10.3	3.1-3.6	3.7-4.2	5.9-6.4
Excavated:							EXCAVATED				
Lab Sample ID:				JB92766-7	JB92858-1	JB92858-2	JB92858-3	JB93363-2	JB92858-5	JB92858-6	JB93021-1
Date Sampled:				4/17/2015	4/20/2015	4/20/2015	4/21/2015	4/27/2015	4/21/2015	4/21/2015	4/22/2015
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil

Metals Analysis

Antimony	mg/kg	450	31	6	<3.3 NJ-	<2.4 NJ-	<2.7 NJ-	<2.9 NJ-	<2.4 NJ-	<2.5 NJ-	<2.4 NJ-	<3.4 NJ-
Chromium	mg/kg	120,000	-	-	1630	561 ENJ+	44.9 ENJ+	737 ENJ+	31.3	19 ENJ+	767 ENJ+	191
Nickel	mg/kg	23000	1600	205**	22.1	14	17.2	25.5	13.2	15.9	34.3	31.6
Thallium	mg/kg	79	5	3	<1.7	<1.2	<1.3	<1.5	<1.2	<2.5	<1.2	<1.7
Vanadium	mg/kg	1100	390	-	77.5	31.3 EJ	23.4 EJ	88.5 EJ	33.3	26.4 EJ	50 EJ	73.3

General Chemistry

Chromium, Hexavalent	mg/kg	20	-	-	<0.65 *NJ- / <0.65 NJ-	14.4 NJ- / 1.6 NJ-	<0.53 NJ- / <0.53 NJ-	<0.56 NJ- / 0.64 NJ-	1.3 NJ- / 2.3 *NJ-	<0.52 NJ- / <0.52 NJ-	8.2 NJ- / 16.8 NJ-	<0.67 NJ- / <0.67 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	0.34	-	0.7	-
pH	su	-	-	-	7.63	7.65	7.02	8.14	7.75	6.86	8.22	7.94
Redox Potential Vs H2	mv	-	-	-	179	215	221	183	341	182	214	124
Solids, Percent	%	-	-	-	61.1	84.1	76.1	71.7	81.2	77.1	83	59.6
Sulfide Screen		-	-	-	-	-	-	-	NEGATIVE	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	14400 J	-	38400	-

Analytical Data Qualifiers:

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*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4B
Sidewall Soil Samples (2014-2015)
Complete Summary Laboratory Analytical Data
Including Excavated Exceedances
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63-65 DUP- SW131	PPG63/65 SW132	PPG63/65 SW133	PPG63/65 SW134	PPG63/65 SW134R	PPG63/65 SW135	PPG63/65 SW138	PPG63/65 SW139
Sample Depth (ft. bgs):					2.5-3.0	1.6-2.1	2-2.5	1.6-2.1	2.5-3.0	1.9-2.4	1.2-1.7	2.6-3.1
Sample Elevation (ft. msl):					5.9-6.4	4.3-4.8	7.5-8.0	7.9-8.4	7.8-8.3	7.9-8.4	6.8-7.3	7.9-8.4
Excavated:								EXCAVATED				
Lab Sample ID:					JB93021-5	JB93021-3	JB93163-1	JB93163-2	JB95015-1	JB93363-3	JB93547-7	JB95015-3
Date Sampled:					4/22/2015	4/22/2015	4/23/2015	4/23/2015	5/19/2015	4/27/2015	4/29/2015	5/19/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis												
Antimony	mg/kg	450	31	6	<3.4 NJ-	<2.9 NJ-	<2.5 NJ-	3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	197	98	60 NJ-	317 NJ-	33.3	15.6	58.7	35.6 EJ
Nickel	mg/kg	23000	1600	205**	29.3	31.3	59.3 ENJ-	58.8 ENJ-	20.7	7.9	16.7	22.6
Thallium	mg/kg	79	5	3	<1.7	<1.5	<1.2	<1.1	<1.2	<1.2	<1.2	<1.3
Vanadium	mg/kg	1100	390	-	63.4	59.7	28.8 ENJ-	33.7 ENJ-	25.4	14.7	25	28
General Chemistry												
Chromium, Hexavalent	mg/kg	20	-	-	1.4 NJ- / <0.67	<0.58 NJ- / <0.58 NJ-	<0.50 NJ- / 8.3 NJ-	8.5 NJ- / 29.9 NJ-	0.47 NJ- / 1.5 NJ-	3.4 NJ- / 2.2 *NJ-	3.6 NJ- / 2.8 *NJ-	1.2 NJ / 1.1 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	1.2	32.8	-	-	34.4
pH	su	-	-	-	7.91	7.13	7.59	8.01	7.44	8.36	9.51	7.76
Redox Potential Vs H2	mv	-	-	-	206	202	322	331	335	372	241	343
Solids, Percent	%	-	-	-	59.3	69.5	80.5	87	85.2	82.4	84.2	79.5
Sulfide Screen		-	-	-	-	-	-	NEGATIVE	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	21000	-	-	-	-

Analytical Data Qualifiers:

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J - The reported result is an estimated value.

*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

NJ- Estimated value bias low

Notes:

** - Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

^a - Analytical result in this location was not considered an exceedance

because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD001				AD002			
				6.5-7	7-7.5	7.5-8	8-8.5	5-5.5	5.5-6	6-6.5	6.5-7
Sample Depth (ft bgs):	Non-Residential Direct Contact Soil (NJAC) 7:26D 5/12	Residential Direct Contact Soil (NJAC) 7:26D 5/12	Groundwater Impact to Soil Screening (NJAC) 7:26D 11/13	1.4-1.9	0.9-1.4	0.4-0.9	-0.1- 0.4	2-2.5	1.5-2	1-1.5	0.5-1
Sample Elevation (ft msl):				AD001 6.5-7	AD001 7-7.5	AD001 7.5-8	AD001 8-8.5	AD002 5-5.5	AD002 5.5-6	AD002 6-6.5	AD002 6.5-7
Client Sample ID:				JB44205-1	JB44205-2	JB44205-3	JB44205-4	JB44205-13	JB44205-14	JB44205-15	JB44205-16
Lab Sample ID:				8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:								EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	5.5 NJ-	<20 ^a NJ-	<21 ^a NJ-	20.4 ^a NJ-
Chromium (mg/kg)	120,000	N/A	N/A	34.7	30.2	36.2 NJ+	27.3 NJ+	3460	10800	14500	24300
Nickel (mg/kg)	23,000	1,600	205**	16.8	15.8	16.1	12.2	19.8	32.7	18.5	25
Thallium (mg/kg)	79	5	3	<1.1	<1.2	<1.2	<1.1	<1.0	<10 ^a	<10 ^a	<9.9 ^a
Vanadium (mg/kg)	1,100	390	N/A	32.9	35.4	52	43.3	29.5	51.9 ^a	71.8 ^a	105 ^a
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	1.3 NJ-	0.67 NJ-	0.92 NJ-	1.2 NJ-	41.3 NJ-	209 NJ-	173 NJ-	105 NJ-
pH	N/A	N/A	N/A	9.84	9.53	9.37	9.26	10.96	11.52	11.68	11.74
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	213	151	160	169	150	89.1	94.8	84.8
Solids, Percent (%)	N/A	N/A	N/A	86.1	87.6	89.1	89.4	65.6	72.5	67	68.5

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

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R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD003				AD004				
				6.5-7	7-7.5	7.5-8	8-8.5	4-4.5	4.5-5	5-5.5	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential Direct Contact Soil (NJAC) 7:26D 5/12	Residential Direct Contact Soil (NJAC) 7:26D 5/12	Groundwater Impact to Soil Screening (NJAC) 7:26D 11/13	0.5-1	0-0.5	-0.5- 0	-1- (-0.5)	3-3.5	2.5-3	2-2.5	1.5-2	1.5-2
Sample Elevation (ft msl):				AD003 6.5-7	AD003 7-7.5	AD003 7.5-8	AD003 8-8.5	AD004 4-4.5	AD004 4.5-5	AD004 5-5.5	AD004 5.5-6	DUP 01
Client Sample ID:				JB43880-52A	JB43880-53A	JB43880-54A	JB43880-55A	JB46800-1	JB46800-2	JB46800-3	JB46800-4	JB46800-5
Lab Sample ID:				8/2/2013	8/2/2013	8/2/2013	8/2/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Excavation Status:												
Antimony (mg/kg)	450	31	6	10.3	<6.9 ^a	<9.8 ^a	<12 ^a	<2.4	2.5	3 NJ-	<2.3	<2.5
Chromium (mg/kg)	120,000	N/A	N/A	3930	9190	13000	15300	759	4710	3050	189	142
Nickel (mg/kg)	23,000	1,600	205**	12.2	22	44.7	23.1	23.6	13.1	11	15.4	16.2
Thallium (mg/kg)	79	5	3	<1.2	<3.5 ^a	<4.9 ^a	<6.2 ^a	<1.2	<1.1	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	27.5	44.6 ^a	60.7 ^a	69.3 ^a	37 NJ+	28.6 NJ+	34.6	33	72.8
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	64.8 NJ-	66.7 NJ-	68.9 NJ-	121 NJ-	5.2 NJ-	35.6 NJ-	115 NJ-	<0.47 NJ-	<0.48 NJ-
pH	N/A	N/A	N/A	11.27	11.57	11.6	11.56	8.33	10.66	10.21	9.99	10.14
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	117	101	92.8	77.7	225	162	177	16.7	-12.5
Solids, Percent (%)	N/A	N/A	N/A	84.5	85	72.8	81.1	84.7	85.5	85.4	85.3	84.2

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NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

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ft msl = feet mean sea level

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD005					AD006				
				2.5-3	3-3.5	3.5-4	4-4.5	4-4.5	2.5-3	3-3.5	3.5-4	4-4.5	4-4.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	4.6-5.1	4.1-4.6	3.6-4.1	3.1-3.6	3.1-3.6	4.5-5	4-4.5	3.5-4	3-3.5	3-3.5
Sample Elevation (ft msl):				AD005 2.5-3	AD005 3-3.5	AD005 3.5-4	AD005 4-4.5	DUP 02	AD006 2.5-3	AD006 3-3.5	AD006 3.5-4	AD006 4-4.5	DUP 03
Client Sample ID:	Direct Contact	Direct Contact	Impact to	JB46800-6	JB46800-7	JB46800-8	JB46800-9	JB46800-10	JB46800-11	JB46800-12	JB46800-13	JB46800-14	JB46800-15
Lab Sample ID:				Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED	EXCAVATED				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.3	<2.4	<2.4	<2.0	<2.0
Chromium (mg/kg)	120,000	N/A	N/A	160	156	254	255	346	56.7	48.9	19.8	30.1 J	17.2 J
Nickel (mg/kg)	23,000	1,600	205**	19	14	18.2	19.4	26.4	19	35.8	8.7	26.1	17.8
Thallium (mg/kg)	79	5	3	<1.0	<1.0	<1.0	<0.99	<0.99	<1.2	<1.2	<1.2	<0.99	<1.0
Vanadium (mg/kg)	1,100	390	N/A	41.6	31.7	28.9	30.6	14.3 NJ+	8.4 NJ+	12.8 NJ+	14.7 NJ+	46.3 NJ+	19.6 NJ+
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	3 NJ-	2.3 NJ-	<0.54 NJ-	14.8 NJ-	4.7 NJ-	1 NJ-	1.8 NJ-	<0.47 NJ-	<0.57 NJ-	<0.52 NJ-
pH	N/A	N/A	N/A	8.09	8.1	7.92	7.76	8.18	7.82	7.84	8.19	7.8	7.92
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	176	169	128	138	230	265	276	274	174	171
Solids, Percent (%)	N/A	N/A	N/A	77.6	77.7	74.4	76.4	79.1	85.6	85.1	85.2	70.3	76.9

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NOTES:

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
 Historical Soil Samples
 – Design Borings (2013)
 Complete Laboratory Analytical Summary Table
 PPG Site 63, 1 Burma Road Jersey City, NJ
 2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD007						AD008					
				5-5.5	5.5-6	6-6.5	6.5-7	6.5-7	6.5-7	4.5-5	5-5.5	5.5-6	6-6.5	6-6.5	6-6.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	2.2-2.7	1.7-2.2	1.2-1.7	0.7-1.2	0.7-1.2	0.7-1.2	2.5-3	2-2.5	1.5-2	1-1.5	1-1.5	1-1.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	AD007 5-5.5	AD007 5.5-6	AD007 6-6.5	AD007 6.5-7	DUP 09	DUP 09	AD008 4.5-5	AD008 5-5.5	AD008 5.5-6	AD008 6-6.5	DUP 10	DUP 10
Client Sample ID:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)												
Lab Sample ID:				JB46883-19	JB46883-20	JB46883-21	JB46883-22	JB46883-23	JB46883-23R	JB46883-28	JB46883-29	JB46883-30	JB46883-31	JB46883-32	JB46883-32R
Date Sampled:	7:26D 5/12	7:26D 5/12	7:26D 11/13	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED						EXCAVATED	EXCAVATED	EXCAVATED			
Antimony (mg/kg)	450	31	6	10.9 NJ-	4 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	----	9	2.5	<2.1	2.6	<1.9	----
Chromium (mg/kg)	120,000	N/A	N/A	33.9 EJ	55.2 EJ	22.5	18.4	16.6	----	66.1	18.5	32	41.3	30.5	----
Nickel (mg/kg)	23,000	1,600	205**	24.9	16.6	17.4	13.4	11.8	----	21	12.9	27.5	13.9	17.6	----
Thallium (mg/kg)	79	5	3	<1.1	<1.3	<1.2	<1.2	<1.2	----	<0.98	<0.98	<1.0	<0.99	<0.93	----
Vanadium (mg/kg)	1,100	390	N/A	21.1 EJ	24.7 EJ	32.3	26.4	24.3	----	25.8	14.1	25.7	18.4	24.3	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.58 NJ-	<0.50 NJ-	<0.47 NJ-	<0.46 NJ-	<0.45 NJ-	<0.45 NJ-	<0.51 NJ-	<0.52 NJ-	<0.56 NJ-	<0.65 NJ-	<0.70 NJ-	<0.70 NJ-
pH	N/A	N/A	N/A	7.79	7.74	8.09	8.38	8.47	----	7.71	7.73	7.54	7.66	7.66	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	210	281	259	256	263	----	230	253	229	209	158	----
Solids, Percent (%)	N/A	N/A	N/A	69.4	80	84.9	86.8	88.3	----	78.1	77.2	71.9	61.3	57.5	----

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NOTES:

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^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

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mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	AD009												
	NJ	NJ	NJ Default	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7
Sample Depth (ft bgs):				1.5-2	1.5-2	1-1.5	1-1.5	0.5-1	0.5-1	0-0.5	0-0.5	0-0.5	0-0.5
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	AD009 5-5.5	AD009 5-5.5	AD009 5.5-6	AD009 5.5-6	AD009 6-6.5	AD009 6-6.5	AD009 6.5-7	AD009 6.5-7	DUP 12	DUP 12
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB47183-5	JB47183-5R	JB47183-6	JB47183-6R	JB47183-7	JB47183-7R	JB47183-8	JB47183-8R	JB47183-9	JB47183-9R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Antimony (mg/kg)	450	31	6	<2.3	----	<2.4	----	<2.5	----	3.5	----	<2.0	----
Chromium (mg/kg)	120,000	N/A	N/A	80.1	----	18.3	----	11.1	----	22.2	----	17.5	----
Nickel (mg/kg)	23,000	1,600	205**	18.1	----	15	----	12.3	----	21.4	----	15.3	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.2	----	<1.3	----	<0.99	----	<1.0	----
Vanadium (mg/kg)	1,100	390	N/A	19.1	----	18.1	----	17.2	----	25.9	----	25.3	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	0.83 NJ-	<0.47 NJ-	<0.48 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-	<0.60 NJ-	<0.60 NJ-	<0.54 NJ-	<0.54 NJ-
pH	N/A	N/A	N/A	8.09	----	8.11	----	8.16	----	8.91	----	9.56	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	282	----	282	----	285	----	280	----	270	----
Solids, Percent (%)	N/A	N/A	N/A	85.2	----	83.1	----	81.5	----	66.3	----	74.7	----

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N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				AD011								BD001			
	NJ	NJ	NJ Default	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	7-7.5	7.5-8	8-8.5	8.5-9
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	0.7-1.2	0.7-1.2	-0.1-0.4	-0.6(-0.1)	-1.1- (-0.6)	-1.6- (-1.1)
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to												
Client Sample ID:			Soil Screening (NJAC)	AD011 5-5.5	AD011 5-5.5	AD011 5.5-6	AD011 5.5-6	AD011 6-6.5	AD011 6-6.5	AD011 6.5-7	AD011 6.5-7	BD001 7-7.5	BD001 7.5-8	BD001 8-8.5	BD001 8.5-9
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	JB47087-1	JB47087-1R	JB47087-2	JB47087-2R	JB47087-3	JB47087-3R	JB47087-4	JB47087-4R	JB44205-5	JB44205-6	JB44205-7	JB44205-8
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED										
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.4 NJ-	----	<2.3	----	<2.5	----	<2.2 NJ-	<2.4 NJ-	<2.5 NJ-	<2.2 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	525	----	18.4	----	15	----	16.7	----	181	18.5	18.8	19.3
Nickel (mg/kg)	23,000	1,600	205**	12.8	----	14.3	----	14.7	----	14.6	----	12.9	13.7	14.6	13.7
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.1	----	<1.2	----	<1.1	<1.2	<1.2	<1.1
Vanadium (mg/kg)	1,100	390	N/A	21.4	----	17.5	----	18.1	----	19.6	----	22.7	20.7	17.3	26.2
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	22.3 NJ-	29.8 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.48 NJ-	<0.48 NJ-	0.95 NJ-	<0.46 NJ-	0.87 NJ-	0.67 NJ-
pH	N/A	N/A	N/A	8.05	----	8.02	----	8.57	----	8.16	----	10.33	10.06	9.54	9.64
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	287	----	268	----	289	----	264	----	128	116	129	148
Solids, Percent (%)	N/A	N/A	N/A	84.9	----	81.9	----	84	----	82.7	----	90.5	87.2	83	88.4

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NOTES:

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^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

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***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				BD002				BD003							
	NJ	NJ	NJ Default	4.5-5	6.5-7	7-7.5	7.5-8	4-4.5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	2.3-2.8	0.3-0.8	-0.2- 0.3	-0.7- (-0.2)	3.3-3.8	2.8-3.3	2.3-2.8	1.8-2.3	1.8-2.3	1.8-2.3	1.8-2.3	1.8-2.3
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	BD002 4.5-5	BD002 6.5-7	BD002 7-7.5	BD002 7.5-8	BD003 4-4.5	BD003 4.5-5	BD003 5-5.5	BD003 5-5.5	BD003 5.5-6	BD003 5.5-6	DUP 07	DUP 07
Client Sample ID:			Soil Screening (NJAC)	JB43880-48A	JB43880-49A	JB43880-50A	JB43880-51A	JB46883-5	JB46883-6	JB46883-7	JB46883-7R	JB46883-8	JB46883-8R	JB46883-9	JB46883-9R
Lab Sample ID:	7:26D 5/12	7:26D 5/12	7:26D 11/13	8/2/2013	8/2/2013	8/2/2013	8/2/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Excavation Status:															
Antimony (mg/kg)	450	31	6	14.0 ^a NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	6.9	<2.3	<2.5	----	<2.4	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	8860 NJ+	65.7 NJ+	23.8 NJ+	17.7 NJ+	592	61.6	23	----	16.5	----	15.5	----
Nickel (mg/kg)	23,000	1,600	205**	14	15.1	14	14.3	20.5	17.5	14.3	----	14.9	----	15.1	----
Thallium (mg/kg)	79	5	3	<2.4 ^a	<1.2	<1.1	<2.3 ^a	<1.2	<1.1	<1.3	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	83.6 ^a	24.5	35.7	24.2	21.5	36.6	27.7	----	23	----	20.8	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	160 NJ-	<0.46 NJ-	<0.46 NJ-	0.47 NJ-	<0.48 NJ-	<0.47 NJ-	<0.50 NJ-	<0.50 NJ-	<0.48 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	10.44	9.52	9.36	9.16	9.65	9.63	8.87	----	8.49	----	8.51	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	142	147	155	156	197	182	171	----	177	----	179	----
Solids, Percent (%)	N/A	N/A	N/A	83.6	87.1	87.7	89.3	83	85.8	80.6	----	82.5	----	81.7	----

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	BD004												
	NJ	NJ	NJ Default	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7
Sample Depth (ft bgs):				2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	1.2-1.7	1.2-1.7
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	BD004 5-5.5	BD004 5-5.5	BD004 5.5-6	BD004 5.5-6	BD004 6-6.5	BD004 6-6.5	BD004 6.5-7	BD004 6.5-7	DUP 06	DUP 06
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB46800-37	JB46800-37R	JB46800-38	JB46800-38R	JB46800-39	JB46800-39R	JB46800-40	JB46800-40R	JB46800-41	JB46800-41R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED								
Antimony (mg/kg)	450	31	6	<2.0 NJ-	----	3.2 NJ-	----	<2.2	----	<2.2	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	278	----	31.4	----	33.5	----	15.5	----	23.5	----
Nickel (mg/kg)	23,000	1,600	205**	17	----	21.4	----	18.8	----	14.5	----	19.1	----
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<1.1	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	25.9	----	22.4	----	32.6	----	24	----	33.3	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.53 NJ-	1.1 NJ-	<0.47 NJ-	0.59 NJ-	<0.46 NJ-	0.7 NJ-	<0.45 NJ-	<0.45 NJ-	<0.47 NJ-	<0.47 NJ-
pH	N/A	N/A	N/A	6.12	----	8.14	----	8.35	----	8.13	----	8.23	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	318	----	220	----	202	----	201	----	201	----
Solids, Percent (%)	N/A	N/A	N/A	76	----	85.2	----	86.9	----	88.4	----	85.7	----

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EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
 Historical Soil Samples
 – Design Borings (2013)
 Complete Laboratory Analytical Summary Table
 PPG Site 63, 1 Burma Road Jersey City, NJ
 2013- Sampled by CB&I

Sample Location:	BD005												
	NJ	NJ	NJ Default	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	7-7.5	7-7.5	7-7.5	7-7.5
Sample Depth (ft bgs):				2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	0.7-1.2	0.7-1.2	0.7-1.2	0.7-1.2
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	BD005 5.5-6	BD005 5.5-6	BD005 6-6.5	BD005 6-6.5	BD005 6.5-7	BD005 6.5-7	BD005 7-7.5	BD005 7-7.5	DUP 08	DUP 08
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB46883-10	JB46883-10R	JB46883-11	JB46883-11R	JB46883-12	JB46883-12R	JB46883-13	JB46883-13R	JB46883-14	JB46883-14R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.5 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	43.2 EJ	----	22.5 EJ	----	24.4 EJ	----	19.9 EJ	----	17.9 EJ	----
Nickel (mg/kg)	23,000	1,600	205**	15.7	----	16.1	----	16.3	----	16.4	----	15.8	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.2	----	<1.2	----	<1.3	----
Vanadium (mg/kg)	1,100	390	N/A	53.5 EJ	----	25.5 EJ	----	31 EJ	----	26.6 EJ	----	23.5 EJ	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	1.2 NJ-	2.7 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	<0.49 NJ-	<0.49 NJ-	<0.50 NJ-	0.54 NJ-
pH	N/A	N/A	N/A	7.83	----	7.45	----	7.6	----	7.82	----	7.8	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	276	----	260	----	270	----	271	----	270	----
Solids, Percent (%)	N/A	N/A	N/A	86	----	84.3	----	84.5	----	82.3	----	80.2	----

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NOTES:

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ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	BD006				BD007							
				6-6.5	6.5-7	7-7.5	7.5-8	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	1.5-2	1-1.5	0.5-1	0-0.5	2-2.5	2-2.5	1.5-2	1.5-2	1-1.5	1-1.5	0-0.5	0-0.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to												
Client Sample ID:			Soil Screening (NJAC)	BD006 6-6.5	BD006 6.5-7	BD006 7-7.5	BD006 7.5-8	BD007 5-5.5	BD007 5-5.5	BD007 5.5-6	BD007 5.5-6	BD007 6-6.5	BD007 6-6.5	BD007 6.5-7	BD007 6.5-7
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)		JB44447-13	JB44447-14	JB44447-15	JB44447-16	JB46883-15	JB46883-15R	JB46883-16	JB46883-16R	JB46883-17	JB46883-17R	JB46883-18	JB46883-18R
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/8/2013	8/8/2013	8/8/2013	8/8/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:															
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.4 NJ-	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.1 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	25 *ENJ-	29.4 *ENJ-	21.6 *ENJ-	18.4 *ENJ-	38.3 EJ	----	29.1 EJ	----	28.9 EJ	----	31.1 EJ	----
Nickel (mg/kg)	23,000	1,600	205**	12.5	14.4	15.6	13.1	18.5	----	15	----	16.1	----	17.9	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.3	<1.2	<1.2	----	<1.2	----	<1.1	----	<1.0	----
Vanadium (mg/kg)	1,100	390	N/A	28.3 NJ-	28.1 NJ-	26.5 NJ-	21.2 NJ-	38.5 EJ	----	27.2 EJ	----	36.8 EJ	----	39.7 EJ	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	0.45 NJ-	0.98 NJ-	0.63 NJ-	1 NJ-	0.81 NJ-	0.75 NJ-	0.6 NJ-	0.64 NJ-
pH	N/A	N/A	N/A	8.14	7.49	7.11	7.4	7.97	----	7.94	----	8.05	----	7.86	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	255	257	229	235	269	----	271	----	277	----	250	----
Solids, Percent (%)	N/A	N/A	N/A	90.4	82.2	81.2	81.6	88.2	----	86.7	----	89.9	----	73.4	----

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NOTES:

ft msl = Feet Mean Sea Level

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^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	BD008										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				2.4-2.9	2.4-2.9	1.9-2.4	1.9-2.4	1.4-1.9	1.4-1.9	0.9-1.4	0.9-1.4
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	BD008 4.5-5	BD008 4.5-5	BD008 5-5.5	BD008 5-5.5	BD008 5.5-6	BD008 5.5-6	BD008 6-6.5	BD008 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB46883-24	JB46883-24R	JB46883-25	JB46883-25R	JB46883-26	JB46883-26R	JB46883-27	JB46883-27R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.2 NJ-	----	3.8 NJ-	----	3.9 NJ-	----	<11 ^a NJ-***	----
Chromium (mg/kg)	120,000	N/A	N/A	73.2	----	238	----	69.3	----	64.1	----
Nickel (mg/kg)	23,000	1,600	205**	14.5	----	23.4	----	16.7	----	22.5	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.0	----	<5.7 ^a ***	----
Vanadium (mg/kg)	1,100	390	N/A	16.9	----	34.7	----	18.1	----	21.5	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.46 NJ-	<0.46 NJ-	<0.50 NJ-	<0.50 NJ-	<0.58 NJ-	<0.58 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	7.68	----	7.8	----	7.73	----	7.78	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	273	----	26.6	----	273	----	217	----
Solids, Percent (%)	N/A	N/A	N/A	87.4	----	79.4	----	68.4	----	81.4	----

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NOTES:

ft msl = Feet Mean Sea Level

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* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

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ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
 Historical Soil Samples
 – Design Borings (2013)
 Complete Laboratory Analytical Summary Table
 PPG Site 63, 1 Burma Road Jersey City, NJ
 2013- Sampled by CB&I

Sample Location:	BD009										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				3.4-3.9	3.4-3.9	2.9-3.4	2.9-3.4	2.4-2.9	2.4-2.9	1.9-2.4	1.9-2.4
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	BD009 4.5-5	BD009 4.5-5	BD009 5-5.5	BD009 5-5.5	BD009 5.5-6	BD009 5.5-6	BD009 6-6.5	BD009 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB47087-10	JB47087-10R	JB47087-11	JB47087-11R	JB47087-12	JB47087-12R	JB47087-13	JB47087-13R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	181	----	21.8	----	19.5	----	49.6	----
Nickel (mg/kg)	23,000	1,600	205**	14.8	----	17	----	13.7	----	23.3	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.1	----	<1.1	----
Vanadium (mg/kg)	1,100	390	N/A	38.9	----	32.4	----	31	----	39.8	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	11.2 NJ-	8.3 NJ-	<0.45 NJ-	<0.45 NJ-	<0.45 NJ-	<0.45 NJ-	0.61 NJ-	<0.46 NJ-
pH	N/A	N/A	N/A	7.86	----	7.98	----	7.96	----	7.96	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	301	----	300	----	311	----	317	----
Solids, Percent (%)	N/A	N/A	N/A	86.5	----	89.2	----	88.8	----	87.6	----

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

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R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

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^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	BD010												
	NJ	NJ	NJ Default	4.5-5.0	4.5-5.0	5-5.5	5-5.5	5-5.6	5-5-6	6-6.5	6-6.5	6-6.5	6-6.5
Sample Depth (ft bgs):				3.3-3.8	3.3-3.8	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3	1.8-2.3	1.8-2.3
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	BD010 4.5-5.0	BD010 4.5-5.0	BD010 5-5.5	BD010 5-5.5	BD010 5.5-6	BD010 5.5-6	BD010 6-6.5	BD010 6-6.5	DUP11	DUP11
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB47087-5	JB47087-5R	JB47087-6	JB47087-6R	JB47087-7	JB47087-7R	JB47087-8	JB47087-8R	JB47087-9	JB47087-9R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Antimony (mg/kg)	450	31	6	<2.4	----	<2.3	----	<2.4	----	<2.4	----	93.4***	----
Chromium (mg/kg)	120,000	N/A	N/A	420	----	1080	----	490	----	30.1	----	16	----
Nickel (mg/kg)	23,000	1,600	205**	16.5	----	24.8	----	22.5	----	18.8	----	19	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.1	----	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	24.4	----	20.3	----	15.4	----	14.7	----	17	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	21.6 NJ-	18.2 NJ-	30 NJ-	19.3 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-
pH	N/A	N/A	N/A	8.21	----	8.52	----	8.08	----	8.12	----	8.22	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	309	----	291	----	296	----	291	----	290	----
Solids, Percent (%)	N/A	N/A	N/A	84.1	----	83.5	----	81.5	----	82.4	----	83	----

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

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mg/kg = milligram per kilogram

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mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD001						CD002			
				4-4.5	4.5-5	7-7.5	7.5-8	8-8.5	8.5-9	6-6.5	6.5-7	7-7.5	7.5-8
Sample Depth (ft bgs):	Non-Residential Direct Contact Soil (NJAC) 7:26D 5/12	Residential Direct Contact Soil (NJAC) 7:26D 5/12	Groundwater Impact to Soil Screening (NJAC) 7:26D 11/13	3.8-4.3	3.3-3.8	0.8-1.3	0.3-0.8	-0.2- 0.3	-0.7- (-0.2)	1.9-2.4	1.4-1.9	0.9-1.4	0.4-0.9
Sample Elevation (ft msl):				CD001 4-4.5	CD001 4.5-5	CD001 7-7.5	CD001 7.5-8	CD001 8-8.5	CD001 8.5-9	CD002 6-6.5	CD002 6.5-7	CD002 7-7.5	CD002 7.5-8
Client Sample ID:				JB43880-33A	JB43880-34A	JB43880-35A	JB43880-1A	JB43880-2A	JB43880-3A	JB43880-4A	JB43880-5A	JB43880-6A	JB43880-7A
Lab Sample ID:				7/30/2013	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED	EXCAVATED								
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.0 NJ-	<2.0 NJ-	<2.4 NJ-	<2.4 NJ-	<2.0 NJ-	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	26.5	35.9	15.3 NJ+	17.9	17	15.9	25.7	18.9	32.7	15.6
Nickel (mg/kg)	23,000	1,600	205**	20.3	21.2	13.1	14.3	14.4	17.2	17.5	14.3	22.7	12.2
Thallium (mg/kg)	79	5	3	<1.2	<1.0	<1.0	<1.2	<1.2	<1.0	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	32.8	30	22.2	24.4	24.2	23.3	35.5	30.1	49.1	22.7
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.46 NJ-	<0.51 NJ-	<0.52 NJ-	<0.48 NJ-	<0.47 NJ-	5.3 NJ-	0.69 NJ-	0.76 NJ-	0.48 NJ-	0.98 NJ-
pH	N/A	N/A	N/A	7.11	6.86	6.98	7.13	7.37	6.77	6.88	7.24	6.98	6.72
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	273	263	197	310	248	276	241	242	232	239
Solids, Percent (%)	N/A	N/A	N/A	87.4	79	77.2	82.9	84.5	43.6	86.5	86.1	86.6	84.4

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NOTES:

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N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD003					CD004				CD005				
				3.5-4	4.5-5	6.5-7	7-7.5	7.5-8	7-7.5	7.5-8	8-8.5	8.5-9	4.5-5	5-5.5	5.5-6	6-6.5	
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	4.5-5	3.5-4	1.5-2	1-1.5	0.5-1	0.8-1.3	0.3-1.8	-0.2- 0.3	-0.7- (-0.2)	2.5-3	2-2.5	1.5-2	1-1.5	
Sample Elevation (ft msl):				Direct Contact	Direct Contact	Impact to	CD003 3.5-4	CD003 4.5-5	CD003 6.5-7	CD003 7-7.5	CD003 7.5-8	CD004 7-7.5	CD004 7.5-8	CD004 8-8.5	CD004 8.5-9	CD005 4.5-5	CD005 5-5.5
Client Sample ID:				Soil Screening (NJAC)	JB43880-28A	JB43880-29A	JB43880-30A	JB43880-31A	JB43880-32A	JB44205-25	JB44205-26	JB44205-27	JB44205-28	JB44205-17	JB44205-18	JB44205-19	JB44205-20
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)			7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Date Sampled:	7:26D 5/12)	7:26D 5/12)			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:					EXCAVATED	EXCAVATED								EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Excavation Status:																	
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-	<2.4 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-	
Chromium (mg/kg)	120,000	N/A	N/A	320	22.8	37.7	32.9	17.5	46.3 NJ+	34.3 NJ+	22.4 NJ+	18.4 NJ+	2730	28.4	20.6	26.1 NJ+	
Nickel (mg/kg)	23,000	1,600	205**	20.7	15.3	16.8	16.5	12.9	11.9	16.9	13.5	14.1	16.6	14.9	13.7	15.1	
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<1.1	<1.2	<1.2	
Vanadium (mg/kg)	1,100	390	N/A	41.3	28.8	31.2	29.3	25.4	28.5	41.2	24.6	24.4	61.1	26.2	24.2	30	
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	1.8 NJ-	<0.47 NJ-	<0.47 NJ-	<0.46 NJ-	<0.46 NJ-	1.2 NJ-	<0.47 NJ-	<0.46 NJ-	<0.49 NJ-	24.2 NJ-	1.2 NJ-	<0.46 NJ-	<0.49 NJ-	
pH	N/A	N/A	N/A	7.86	7.12	7.24	7.1	7.21	6.95	8.76	7.9	7.36	10.98	9.53	9.48	9.68	
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	194	253	236	212	213	290	279	256	214	104	126	128	37.2	
Solids, Percent (%)	N/A	N/A	N/A	86.2	85.8	85.9	86.6	86.9	88.9	85.5	87.9	82.4	83	88	86.8	81.5	

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NOTES:

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD006				CD007				CD008			
				7-7.5	7.5-8	8-8.5	8.5-9	3-3.5	3.5-4	4-4.5	4.5-5	3.5-4	4-4.5	4.5-5	6.5-7
Sample Depth (ft bgs):				7-7.5	7.5-8	8-8.5	8.5-9	3-3.5	3.5-4	4-4.5	4.5-5	3.5-4	4-4.5	4.5-5	6.5-7
Sample Elevation (ft msl):				-0.1- 0.4	-0.6- (-0.1)	-1.1- (-0.6)	-1.6- (-1.1)	4-4.5	3.5-4	3-3.5	2.5-3	3.5-4	3-3.5	2.5-3	0.5-1
Client Sample ID:	Non-Residential	Residential	Groundwater	CD006 7-7.5	CD006 7.5-8	CD006 8-8.5	CD006 8.5-9	CD007 3-3.5	CD007 3.5-4	CD007 4-4.5	CD007 4.5-5	CD008 3.5-4	CD008 4-4.5	CD008 4.5-5	CD008 6.5-7
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44205-33	JB44205-34	JB44205-35	JB44205-36	JB43880-36A	JB43880-37A	JB43880-38A	JB43880-39A	JB43880-40A	JB43880-41A	JB43880-42A	JB43880-43A
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:								EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.1 NJ-	<2.3	3.9	8.2	<2.2	<2.3 NJ-	<2.5 NJ-	<2.4 NJ-	<2.3 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	46.7 NJ+	29 NJ+	18.4 NJ+	24.3 NJ+	74.3	2030	3420	12.9	29.4 NJ+	15.2 NJ+	22.5 NJ+	39.5 NJ+
Nickel (mg/kg)	23,000	1,600	205**	12.2	17	14	17.6	11.6	13.7	18.1	9.7	14.3	12.6	10.7	13.2
Thallium (mg/kg)	79	5	3	<1.1	<1.1	<1.2	<1.0	<1.1	<1.2	<1.2	<1.1	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	24.5	25.8	31.3	30.9	22.2	28.2	61.7	17.4	34.7	20.6	15.6	22
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.44 NJ-	<0.44 NJ-	<0.46 NJ-	<1.2 NJ-	21.1 NJ-	3.3 NJ-	<0.47 NJ-	<0.45 NJ-	1 NJ-	<0.48 NJ-	<0.48 NJ-	0.55 NJ-
pH	N/A	N/A	N/A	9.31	9.31	8.73	7.37	11.34	10.49	9.82	9.7	9.79	9.04	8.39	7.77
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	224	229	149	233	114	52.5	81.3	162	169	194	197	211
Solids, Percent (%)	N/A	N/A	N/A	91	90.4	87.6	33.5	86.3	86.3	85.9	89.1	88.3	83.4	83.9	83.6

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NOTES:

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ft bgs = Feet Below Ground Surface

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* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

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mg/kg = milligram per kilogram

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mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				CD009				CD010							
	NJ	NJ	NJ Default	4-4.5	4.5-5	5.5-6	6-6.5	4.5-5 ⁺	4.5-5 ⁺	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.2-3.7	2.7-3.2	1.7-2.2	1.2-1.7	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.3	1.7-2.3	1.2-1.7	1.2-1.7
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to												
Client Sample ID:			Soil Screening (NJAC)	CD009 4-4.5	CD009 4.5-5	CD009 5.5-6	CD009 6-6.5	CD010 4.5-5	CD010 4.5-5	CD010 5-5.5	CD010 5-5.5	CD010 5.5-6	CD010 5.5-6	CD010 6-6.5	CD010 6-6.5
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)		JB43880-44A	JB43880-45A	JB43880-46A	JB43880-47A	JB46883-1	JB46883-1R	JB46883-2	JB46883-2R	JB46883-3	JB46883-3R	JB46883-4	JB46883-4R
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/2/2013	8/2/2013	8/2/2013	8/2/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED										
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.5 NJ-	<2.1 NJ-	<2.4 NJ-	<2.3 NJ-	----	<2.3 NJ-	----	<2.4	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	34.4 NJ+	60.3 NJ+	30.3 NJ+	19.5 NJ+	17 EJ	----	58.8 EJ	----	35.8	----	41.2	----
Nickel (mg/kg)	23,000	1,600	205**	11.1	12.4	14.1	15.1	12	----	22.2	----	14.2	----	16	----
Thallium (mg/kg)	79	5	3	<1.1	<2.5 ^a	<1.0	<1.2	<1.1	----	<1.1	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	21.5	25.4	32.1	24.5	20.3 EJ	----	45.1 EJ	----	29.4	----	27.8	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	0.7 NJ-	<0.50 NJ-	<0.50 NJ-	<0.46 NJ-	<0.47 NJ-	<0.47 NJ-	0.55 NJ-	0.49 NJ-	0.54 NJ-	<0.46 NJ-	<0.47 NJ-	<0.47 NJ-
pH	N/A	N/A	N/A	8.69	7.48	7.16	7.34	8.84	----	8.84	----	8.61	----	8.18	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	210	219	222	225	258	----	229	----	244	----	251	----
Solids, Percent (%)	N/A	N/A	N/A	86.5	80.8	79.9	87.4	84.8	----	88.7	----	86.1	----	85.2	----

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- R - The reported result is rejected .

NOTES:

- ft msl = Feet Mean Sea Level
- ft bgs = Feet Below Ground Surface
- ^a Elevated detection limit due to dilution required for high interfering element.
- * Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.
- **Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.
- ***Compliance averaged to below standards/criteria.
- ft msl = feet mean sea level
- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts
- N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD011										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1	2.1-2.6	2.1-2.6	1-6-2.1	1-6-2.1
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	CD011 4.5-5	CD011 4.5-5	CD011 5-5.5	CD011 5-5.5	CD011 5.5-6	CD011 5.5-6	CD011 6-6.5	CD011 6-6.5
Client Sample ID:			Soil Screening (NJAC)								
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	JB46800-42	JB46800-42R	JB46800-43	JB46800-43R	JB46800-44	JB46800-44R	JB46800-45	JB46800-45R
Date Sampled:	7:26D 5/12)	7:26D 5/12)		9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.4	----	<2.3	----	<2.3	----	<2.2	----
Chromium (mg/kg)	120,000	N/A	N/A	19.7	----	461	----	48.6	----	25.3	----
Nickel (mg/kg)	23,000	1,600	205**	14.4	----	14.6	----	12.3	----	13.1	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.1	----	<1.1	----
Vanadium (mg/kg)	1,100	390	N/A	25.8	----	34.2	----	20.8	----	25.9	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.48 NJ-	<0.48 NJ-	2.5 NJ-	3.5 NJ-	0.65 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-
pH	N/A	N/A	N/A	8.65	----	9.05	----	8.77	----	8.44	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	178	----	169	----	218	----	212	----
Solids, Percent (%)	N/A	N/A	N/A	82.5	----	86.5	----	87.1	----	86.6	----

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

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* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD012										
	NJ	NJ	NJ Default	4.5-5	5-5.5	5.5-6 ⁺	5.5-6	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				3.3-3.8	2.8-3.3	2.3-2.8	2.3-2.8	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	CD012 4.5-5	CD012 5-5.5	CD012 5.5-6	CD012 5.5-6	DUP 04	DUP 04	CD012 6-6.5	CD012 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB46800-16	JB46800-17	JB46800-18	JB46800-18R	JB46800-20	JB46800-20R	JB46800-19	JB46800-19R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED							
Antimony (mg/kg)	450	31	6	<2.5	<2.3	<2.3	----	<2.2	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	3880	26	16.7	----	18.4	----	21.1	----
Nickel (mg/kg)	23,000	1,600	205**	12.7	13.7	12.6	----	14.9	----	14.4	----
Thallium (mg/kg)	79	5	3	<1.3	<1.2	<1.2	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	28.6 NJ+	20.8 NJ+	21.6	----	26.3 NJ+	----	23.6 NJ+	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	144 NJ-	<0.47 NJ-	0.61 NJ-	<0.46 NJ-	0.59 NJ-	<0.46 NJ-	0.46 NJ-	<0.46 NJ-
pH	N/A	N/A	N/A	11.15	8.32	8.3	----	8.06	----	8.49	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	-118	154	147	----	251	----	204	----
Solids, Percent (%)	N/A	N/A	N/A	81.3	84.5	87.8	----	87.7	----	86.7	----

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

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J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

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**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD013												
	NJ	NJ	NJ Default	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7
Sample Depth (ft bgs):				2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3	1.3-1.8	1.3-1.8	1.3-1.8	1.3-1.8
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	CD013 5-5.5	CD013 5-5.5	CD013 5.5-6	CD013 5.5-6	CD013 6-6.5	CD013 6-6.5	CD013 6.5-7	CD013 6.5-7	DUP 05	DUP 05
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB46800-21	JB46800-21R	JB46800-22	JB46800-22R	JB46800-23	JB46800-23R	JB46800-24	JB46800-24R	JB46800-36	JB46800-36R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.0 NJ-	----	<2.1 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	23.3	----	17.9	----	26.8	----	25.9	----	18.4	----
Nickel (mg/kg)	23,000	1,600	205**	13.9	----	13.7	----	15.3	----	17.2	----	14.7	----
Thallium (mg/kg)	79	5	3	<1.2	----	<0.99	----	<1.1	----	<1.1	----	<1.1	----
Vanadium (mg/kg)	1,100	390	N/A	21.2	----	19.1	----	23.4	----	27.4	----	27.8	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.47 NJ-	0.61 NJ-	<0.51 NJ-	<0.51 NJ-	<0.45 NJ-	0.47 NJ-	<0.44 NJ-	<0.44 NJ-	<0.44 NJ-	<0.44 NJ-
pH	N/A	N/A	N/A	7.53	----	7.23	----	7.29	----	7.86	----	8.43	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	201	----	189	----	173	----	166	----	297	----
Solids, Percent (%)	N/A	N/A	N/A	84.4	----	79.2	----	88.8	----	90.3	----	91.4	----

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

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* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

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ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD014										
	NJ	NJ	NJ Default	8-8.5	8-8.5	8.5-9 ⁺	8.5-9	9-9.5	9-9.5	9.5-10	9.5-10
Sample Depth (ft bgs):											
Sample Elevation (ft msl):				-0.1-0.4	-0.1-0.4	-0.6(-0.1)	-0.6(-0.1)	-1.1(-0.6)	-1.1(-0.6)	-1.6(-1.1)	-1.6(-1.1)
Client Sample ID:	Non-Residential	Residential	Groundwater	CD014 8-8.5	CD014 8-8.5	CD014 8.5-9	CD014 8.5-9	CD014 9-9.5	CD014 9-9.5	CD014 9.5-10	CD014 9.5-10
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44447-33	JB44447-33R	JB44447-34	JB44447-34R	JB44447-35	JB44447-35R	JB44447-36	JB44447-36R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.0 NJ-	----	<2.5	----	<2.0 NJ-	----	<2.0 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	483	----	36.3	----	15	----	29.7	----
Nickel (mg/kg)	23,000	1,600	205**	19.5	----	15.3	----	14.5	----	16.3	----
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<1.0	----	<0.99	----
Vanadium (mg/kg)	1,100	390	N/A	41.1	----	20.8	----	17	----	25.4	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	3.6 NJ-	10.2 NJ-	<0.48 NJ-	<0.48 NJ-	<0.50 NJ-	<0.50 NJ-	<0.94 NJ-	<0.94 NJ-
pH	N/A	N/A	N/A	8.7	----	7.76	----	8.02	----	7.69	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	159	----	180	----	183	----	171	----
Solids, Percent (%)	N/A	N/A	N/A	78.1	----	83.2	----	79.8	----	42.5	----

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ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD015										
	NJ	NJ	NJ Default	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7
Sample Depth (ft bgs):				2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	CD015 5-5.5	CD015 5-5.5	CD015 5.5-6	CD015 5.5-6	CD015 6-6.5	CD015 6-6.5	CD015 6.5-7	CD015 6.5-7
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44447-29	JB44447-29R	JB44447-30	JB44447-30R	JB44447-31	JB44447-31R	JB44447-32	JB44447-32R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED						
Antimony (mg/kg)	450	31	6	<2.5 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.4 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	354	----	28.4	----	162	----	35.9	----
Nickel (mg/kg)	23,000	1,600	205**	15.7	----	11.6	----	16.2	----	13.7	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	31.7	----	18.3	----	24.1	----	26	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	3.5 NJ-	20.2 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	0.96 NJ-	<0.48 NJ-	<0.48 NJ-
pH	N/A	N/A	N/A	8.44	----	7.91	----	8.11	----	8.03	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	231	----	155	----	160	----	168	----
Solids, Percent (%)	N/A	N/A	N/A	82.3	----	85	----	85.8	----	84.1	----

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.
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NOTES:

ft msl = Feet Mean Sea Level

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su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD016						CD017			
				5-5.5	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6-6.5	6.5-7	7-7.5	7.5-8
Sample Depth (ft bgs):	Non-Residential Direct Contact Soil (NJAC) 7:26D 5/12	Residential Direct Contact Soil (NJAC) 7:26D 5/12	Groundwater Impact to Soil Screening (NJAC) 7:26D 11/13	2.5-3	2-2.5	1.5-2	1.5-2	1-1.5	1-1.5	1.2-1.7	0.7-1.2	0.2-0.7	-0.3-0.2
Sample Elevation (ft msl):				CD016 5-5.5	CD016 5.5-6	CD016 6-6.5	CD016 6-6.5	CD016 6.5-7	CD016 6.5-7	CD017 6-6.5	CD017 6.5-7	CD017 7-7.5	CD017 7.5-8
Client Sample ID:				JB44447-17	JB44447-18	JB44447-19	JB44447-19R	JB44447-20	JB44447-20R	JB44447-1	JB44447-2	JB44447-3	JB44447-4
Lab Sample ID:				8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:													
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.4 NJ-	<2.4 NJ-	<2.0 NJ-	----	<2.0 NJ-	----	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.5 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	25.6 *ENJ-	12.7 *ENJ-	19.8 *ENJ-	----	14 *ENJ-	----	168 *ENJ-	42 *ENJ-	25.4	18.1
Nickel (mg/kg)	23,000	1,600	205**	14.6	12.4	15.3	----	15.3	----	19.2	14.1	16.6	15.8
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.0	----	<1.0	----	<1.1	<1.1	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	23.5 NJ-	18.7 NJ-	22 NJ-	----	18.1 NJ-	----	44.5 NJ-	25.2 NJ-	20.2	19.9
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.47 NJ-	<0.48 NJ-	<0.51 NJ-	<0.51 NJ-	<0.50 NJ-	<0.50 NJ-	2.6 NJ-	1.1 NJ-	0.58 NJ-	0.49 NJ-
pH	N/A	N/A	N/A	8.67	8.56	8.34	----	8.36	----	8.33	8.38	7.88	7.58
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	193	180	182	----	258	----	296	217	241	264
Solids, Percent (%)	N/A	N/A	N/A	84.6	82.7	78.4	----	79.7	----	89.7	89.4	84.1	83.1

Analytical Data Qualifiers:

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NOTES:

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ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
 Historical Soil Samples
 – Design Borings (2013)
 Complete Laboratory Analytical Summary Table
 PPG Site 63, 1 Burma Road Jersey City, NJ
 2013- Sampled by CB&I

Sample Location:	CD018												
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6-6.5	6-6.5
Sample Depth (ft bgs):				2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	1.2-1.7	1.2-1.7
Sample Elevation (ft msl):													
Client Sample ID:	Non-Residential	Residential	Groundwater	CD018 4.5-5	CD018 4.5-5	CD018 5-5.5	CD018 5-5.5	CD018 5.5-6	CD018 5.5-6	CD018 6-6.5	CD018 6-6.5	DUP 13	DUP 13
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB47185-2	JB47185-2R	JB47185-3	JB47185-3R	JB47185-4	JB47185-4R	JB47185-5	JB47185-5R	JB47185-6	JB47185-6R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:													
Antimony (mg/kg)	450	31	6	<2.1 NJ-	----	<2.4	----	<2.4	----	<2.5	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	69.0 ^a *J	----	18.8	----	34.4	----	19.2	----	22.7	----
Nickel (mg/kg)	23,000	1,600	205**	12.7 ^a	----	11.2	----	16.8	----	16.9	----	17	----
Thallium (mg/kg)	79	5	3	<2.1 ^a	----	<1.2	----	<1.2	----	<1.3	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	28	----	21.4	----	28.3	----	24.5	----	23.9	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.44 NJ-	0.49 NJ-	<0.47 NJ-	0.89 NJ-	0.56 NJ-	<0.48 NJ-	<0.50 NJ-	<0.50 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	7.92	----	7.97	----	7.66	----	8	----	7.79	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	275	----	276	----	273	----	290	----	271	----
Solids, Percent (%)	N/A	N/A	N/A	90.2	----	85.3	----	83.6	----	79.3	----	81.8	----

Analytical Data Qualifiers:

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EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	CD019										
	NJ	NJ	NJ Default	4-4.5	4-4.5	4.5-5 ⁺	4.5-5 ⁺	5-5.5	5-5.5	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.3-3.8	3.3-3.8	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	CD019 4-4.5	CD019 4-4.5	CD019 4.5-5	CD019 4.5-5	CD019 5-5.5	CD019 5-5.5	CD019 5.5-6	CD019 5.5-6
Client Sample ID:			Soil Screening (NJAC)								
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	JB47183-1	JB47183-1R	JB47183-2	JB47183-2R	JB47183-3	JB47183-3R	JB47183-4	JB47183-4R
Date Sampled:	7:26D 5/12)	7:26D 5/12)		9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.4 NJ-	----	3.4 NJ-	----	<2.3 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	216	----	70.3	----	160	----	25.9	----
Nickel (mg/kg)	23,000	1,600	205**	11.3	----	16.6	----	22.9	----	17.1	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.2	----	<0.99	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	24.1	----	15.6	----	29.3	----	36.7	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.45 NJ-	<0.45 NJ-	<0.48 NJ-	0.51 NJ-	<0.55 NJ-	<0.55 NJ-	<0.47 NJ-	<0.47 NJ-
pH	N/A	N/A	N/A	8.01	----	7.99	----	7.7	----	7.73	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	284	----	289	----	292	----	256	----
Solids, Percent (%)	N/A	N/A	N/A	89.6	----	84.2	----	72.1	----	84.3	----

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NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	DD001				DD002				DD003			
				7-7.5	7.5-8	8-8.5	8.5-9	6-6.5	6.5-7	7-7.5	7.5-8	4-4.5	4.5-5	6-6.5	6.5-7
Sample Depth (ft bgs):	Non-Residential Direct Contact Soil (NJAC) 7:26D 5/12	Residential Direct Contact Soil (NJAC) 7:26D 5/12	NJ Default Groundwater Impact to Soil Screening (NJAC) 7:26D 11/13	0.9-1.4	0.4-0.9	-0.1- (0.4)	-0.6- (-0.1)	1.5-2	1-1.5	0.5-1	0-0.5	3.1-3.6	2.6-3.1	1.1-1.6	0.6-1.1
Sample Elevation (ft msl):				DD001 7-7.5	DD001 7.5-8	DD001 8-8.5	DD001 8.5-9	DD002 6-6.5	DD002 6.5-7	DD002 7-7.5	DD002 7.5-8	DD003 4-4.5	DD003 4.5-5	DD003 6-6.5	DD003 6.5-7
Client Sample ID:				JB43880-8A	JB43880-9A	JB43880-10A	JB43880-11A	JB44205-29	JB44205-30	JB44205-31	JB44205-32	JB44205-9	JB44205-10	JB44205-11	JB44205-12
Lab Sample ID:				7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013
Date Sampled:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:															
Excavation Status:														EXCAVATED	EXCAVATED
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.6 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	20.1	16.9	15.1	17	24.1 NJ+	25.8 NJ+	19.5 NJ+	16.7 NJ+	48.2	204	20.5	167
Nickel (mg/kg)	23,000	1,600	205**	14.3	13.1	12.2	13.3	14.4	12.2	13.4	14.5	16.5	15.1	13.5	16.3
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.3	<1.1	<1.1	<1.2	<1.1	<1.2	<1.1	<1.1	<1.1
Vanadium (mg/kg)	1,100	390	N/A	28.2	22	19.6	21.2	27.7	24.7	23.1	22.6	27.2	24.6	22.3	27.6
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.47 NJ-	0.49 NJ-	0.49 NJ-	0.69 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-	1 NJ-	1 NJ-	0.84 NJ-	1 NJ-
pH	N/A	N/A	N/A	7.81	7.72	6.98	7.26	8.46	8.72	8.56	8.44	9.42	9.51	9.28	9.32
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	216	226	309	317	214	206	229	235	120	217	225	217
Solids, Percent (%)	N/A	N/A	N/A	85.4	84.2	83.4	80.7	86.4	86.5	86.9	87.6	83.8	91.4	90.9	90.4

Analytical Data Qualifiers:

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NOTES:

ft msl = Feet Mean Sea Level

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**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				DD004				DD005							
	NJ	NJ	NJ Default	5-5.5	5.5-6	6-6.5	6.5-7	4-4.5	4-4.5	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	2.4-2.9	1.9-2.4	1.4-1.9	0.9-1.4	3.5-4	3.5-4	3-3.5	3-3.5	2.5-3	2.5-3	2-2.5	2-2.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to												
Client Sample ID:			Soil Screening (NJAC)	DD004 5-5.5	DD004 5.5-6	DD004 6-6.5	DD004 6.5-7	DD005 4-4.5	DD005 4-4.5	DD005 4.5-5	DD005 4.5-5	DD005 5-5.5	DD005 5-5.5	DD005 5.5-6	DD005 5.5-6
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)		JB43880-20A	JB43880-21A	JB43880-22A	JB43880-23A	JB47183-10	JB47183-10R	JB47183-11	JB47183-11R	JB47183-12	JB47183-12R	JB47185-1	JB47185-1R
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/1/2013	8/1/2013	8/1/2013	8/1/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED				
Antimony (mg/kg)	450	31	6	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.5 NJ-	<2.4 NJ-	----	<2.4 NJ-	----	<2.4 NJ-	----	<2.3 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	49.3	24.6	29.5	19.2	34.3	----	19.5	----	15.9	----	58.1 *J	----
Nickel (mg/kg)	23,000	1,600	205**	17.9	15.5	17.4	15	14.5	----	15.9	----	13.8	----	15	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.3	<1.2	----	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	35.1	24.3	26	23.8	27.8	----	24.5	----	20.9	----	23.8	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.48 NJ-	<0.49 NJ-	<0.47 NJ-	<0.50 NJ-	<0.48 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	8.8	8	8.28	7.54	9.7	----	9.35	----	8.8	----	8.6	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	194	211	222	237	147	----	156	----	173	----	269	----
Solids, Percent (%)	N/A	N/A	N/A	83.2	81.4	84.3	80.6	84	----	81.7	----	82.6	----	81.4	----

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NOTES:

ft msl = Feet Mean Sea Level

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^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

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ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	DD006										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				3.2-3.7	3.2-3.7	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	DD006 4.5-5	DD006 4.5-5	DD006 5-5.5	DD006 5-5.5	DD006 5.5-6	DD006 5.5-6	DD006 6-6.5	DD006 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44447-65	JB44447-65R	JB44447-66	JB44447-66R	JB44447-67	JB44447-67R	JB44447-68	JB44447-68R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.0	----	<2.5	----	<2.3	----	<2.3	----
Chromium (mg/kg)	120,000	N/A	N/A	71.7	----	30.7	----	59.7	----	33.6	----
Nickel (mg/kg)	23,000	1,600	205**	15.6	----	14.5	----	14.2	----	15.1	----
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	28	----	25.5	----	22.1	----	24	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	1.7 NJ-	<0.53 NJ-	<0.48 NJ-	<0.48 NJ-	0.79 NJ-	0.7 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	8.47	----	8.62	----	8.37	----	8.1	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	134	----	163	----	184	----	193	----
Solids, Percent (%)	N/A	N/A	N/A	75.8	----	83.4	----	84.4	----	82.1	----

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NOTES:

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ft msl = feet mean sea level

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	DD007										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				3.3-3.8	3.3-3.8	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	DD007 4.5-5	DD007 4.5-5	DD007 5-5.5	DD007 5-5.5	DD007 5.5-6	DD007 5.5-6	DD007 6-6.5	DD007 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44447-37	JB44447-37R	JB44447-38	JB44447-38R	JB44447-39	JB44447-39R	JB44447-40	JB44447-40R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED						
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.4 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	2910	----	18.8	----	17.9	----	24	----
Nickel (mg/kg)	23,000	1,600	205**	15.7	----	10.4	----	13.6	----	16	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	43.2	----	19.3	----	23.8	----	30.6	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	132 NJ-	88.8 NJ-	1.2 NJ-	0.57 NJ-	<0.45 NJ-	<0.45 NJ-	<0.46 NJ-	0.46 NJ-
pH	N/A	N/A	N/A	9.46	----	8.9	----	8.61	----	8.34	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	210	----	217	----	220	----	237	----
Solids, Percent (%)	N/A	N/A	N/A	87.8	----	88.9	----	88.5	----	87.5	----

Analytical Data Qualifiers:

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R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

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* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				DD008				DD009							
	NJ	NJ	NJ Default	5-5.5	5.5-6	6-6.5	6.5-7	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	7-7.5	7-7.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	2.4-2.9	1.9-2.4	1.4-1.9	0.9-1.4	1.8-2.3	1.8-2.3	1.3-1.8	1.3-1.8	0.8-1.3	0.8-1.3	0.3-0.8	0.3-0.8
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	DD008 5-5.5	DD008 5.5-6	DD008 6-6.5	DD008 6.5-7	DD009 5.5-6	DD009 5.5-6	DD009 6-6.5	DD009 6-6.5	DD009 6.5-7	DD009 6.5-7	DD009 7-7.5	DD009 7-7.5
Client Sample ID:			Soil Screening (NJAC)												
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	JB44447-9	JB44447-10	JB44447-11	JB44447-12	JB44447-21	JB44447-21R	JB44447-22	JB44447-22R	JB44447-23	JB44447-23R	JB44447-24	JB44447-24R
Date Sampled:	7:26D 5/12)	7:26D 5/12)		8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:															
Antimony (mg/kg)	450	31	6	<2.5	<2.2 NJ-	<2.4 NJ-	<2.3 NJ-	<2.4 NJ-	----	<2.0 NJ-	----	<2.0 NJ-	----	<2.0 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	19.9	14.9 *ENJ-	20.2 *ENJ-	15.4 *ENJ-	15.5	----	14.6	----	14.7	----	13.5	----
Nickel (mg/kg)	23,000	1,600	205**	16	13.7	14	14.9	15.1	----	14.7	----	14.9	----	14.7	----
Thallium (mg/kg)	79	5	3	<1.2	<1.1	<1.2	<1.2	<1.2	----	<1.0	----	<1.0	----	<1.0	----
Vanadium (mg/kg)	1,100	390	N/A	20.4	17.9 NJ-	17.8 NJ-	19.7 NJ-	19.4	----	17.7	----	18.9	----	18	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.47 NJ-	<0.45 NJ-	<0.48 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.53 NJ-	<0.53 NJ-	<0.50 NJ-	<0.50 NJ-	<0.51 NJ-	<0.51 NJ-
pH	N/A	N/A	N/A	8.38	7.9	7.81	7.97	7.89	----	7.4	----	7.84	----	7.71	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	141	238	221	238	238	----	222	----	223	----	213	----
Solids, Percent (%)	N/A	N/A	N/A	85.4	89.1	83.4	81.7	83.3	----	75.8	----	79.7	----	78.9	----

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

* - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

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EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

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NOTES:

ft msl = Feet Mean Sea Level

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^a Elevated detection limit due to dilution required for high interfering element.

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mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED001				ED002				ED003				
				4-4.5	4.5-5	5-5.5	5.5-6	4-4.5	4.5-5	6-6.5	6.5-7	4-4.5	4.5-5	7-7.5	7.5-8	
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	4.3-4.8	3.8-4.3	3.3-3.8	2.8-3.3	4-4.5	3.5-4	2-2.5	1.5-2	4-4.5	3.5-4	1-1.5	0.5-1	
Sample Elevation (ft msl):				Direct Contact	Direct Contact	Impact to	ED001 4-4.5	ED001 4.5-5	ED001 5-5.5	ED001 5.5-6	ED002 4-4.5	ED002 4.5-5	ED002 6-6.5	ED002 6.5-7	ED003 4-4.5	ED003 4.5-5
Client Sample ID:				Soil Screening (NJAC)	ED001 4-4.5	ED001 4.5-5	ED001 5-5.5	ED001 5.5-6	ED002 4-4.5	ED002 4.5-5	ED002 6-6.5	ED002 6.5-7	ED003 4-4.5	ED003 4.5-5	ED003 7-7.5	ED003 7.5-8
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)			JB43880-12A	JB43880-13A	JB43880-14A	JB43880-15A	JB43880-24A	JB43880-25A	JB43880-26A	JB43880-27A	JB43880-16A	JB43880-17A	JB43880-18A	JB43880-19A
Date Sampled:	7:26D 5/12)	7:26D 5/12)			7/29/2013	7/29/2013	7/31/2013	7/31/2013	7/29/2013	7/29/2013	7/30/2013	7/30/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:					EXCAVATED	EXCAVATED							EXCAVATED			
Antimony (mg/kg)	450	31	6	<2.1 NJ-	<2.5 NJ-	<2.6 NJ-	<2.5 NJ-	<2.3 NJ-	<2.5 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	
Chromium (mg/kg)	120,000	N/A	N/A	23.6	17.8	21.6	22.1	32.4	26.9	39.9	17.1	92.8	23.8	22.2	28.2	
Nickel (mg/kg)	23,000	1,600	205**	15.6	14.2	14.2	15.2	18.7	13.4	17.9	13.9	15.2	14.1	14.7	15	
Thallium (mg/kg)	79	5	3	<1.1	<1.2	<1.3	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.1	<1.2	<1.2	
Vanadium (mg/kg)	1,100	390	N/A	26.3	22.9	23.7	26.1	30.9	23.2	37.3	25.4	26.8	33	24.2	27.5	
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	4.2 NJ-	<0.48 NJ-	1.6 NJ-	3.5 NJ-	<0.47 NJ-	<0.50 NJ-	<0.46 NJ-	<0.47 NJ-	<0.47 NJ-	0.61 NJ-	4.3 NJ-	0.63 NJ-	
pH	N/A	N/A	N/A	7.56	7.45	7.07	7.24	8.32	7.96	8.41	7.88	8.78	8.68	7.64	7.93	
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	325	322	276	273	224	164	171	192	246	255	222	214	
Solids, Percent (%)	N/A	N/A	N/A	95.2	84.2	80.1	83.2	84.4	80.6	87.6	84.4	84.6	89.2	84.1	87.6	

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Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED004								ED005			
				4-4.5*	4-4.5*	4.5-5	4.5-5	7.5-8	7.5-8	8-8.5	8-8.5	4-4.5	4.5-5	6-6.5	6.5-7
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.5-4	3.5-4	3-3.5	3-3.5	0-0.5	0-0.5	-0.5- 0	-0.5- 0	3.4-3.9	2.9-3.4	1.4-1.9	0.9-1.4
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	ED004 4-4.5	ED004 4-4.5	ED004 4.5-5	ED004 4.5-5	ED004 7.5-8	ED004 7.5-8	ED004 8-8.5	ED004 8-8.5	ED005 4-4.5	ED005 4.5-5	ED005 6-6.5	ED005 6.5-7
Client Sample ID:			Soil Screening (NJAC)	JB44447-49	JB44447-49R	JB44447-50	JB44447-50R	JB44447-51	JB44447-51R	JB44447-52	JB44447-52R	JB44205-45	JB44205-46	JB44205-47	JB44205-48
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)													
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED										
Antimony (mg/kg)	450	31	6	<2.2	----	<2.4	----	<2.3	----	<2.4	----	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	104	----	283	----	54	----	51	----	38.7	72.5	470	83.6
Nickel (mg/kg)	23,000	1,600	205**	15.3	----	17.2	----	16.4	----	16	----	12.6	16.1	13.6	14.7
Thallium (mg/kg)	79	5	3	<1.1	----	<1.2	----	<1.2	----	<1.2	----	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	30.1	----	40.3	----	31.6	----	29.1	----	21.3	32	26.9	27.9
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.44 NJ-	<0.44 NJ-	<0.46 NJ-	0.72 NJ-	1.2 NJ-	1.3 NJ-	0.94 NJ-	0.57 NJ-	<0.47 NJ-	<0.45 NJ-	0.86 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	10.04	----	10.28	----	9.06	----	9.42	----	10.07	9.84	9.48	8.79
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	71.6	----	53	----	95.3	----	112	----	84	90.2	142	167
Solids, Percent (%)	N/A	N/A	N/A	91	----	87.1	----	85.3	----	88.1	----	86	89.4	87.7	81.1

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NOTES:

ft msl = Feet Mean Sea Level

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Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED006								ED007			
				4-4.5	4-4.5	4.5-5 ⁺	4.5-5 ⁺	5.5-6	5.5-6	6-6.5	6-6.5	4-4.5	4.5-5	5-5.5	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.5-4	3.5-4	3-3.5	3-3.5	2-2.5	2-2.5	1.5-2	1.5-2	3.5-4	3-3.5	2.5-3	2-2.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	ED006 4-4.5	ED006 4-4.5	ED006 4.5-5	ED006 4.5-5	ED006 5.5-6	ED006 5.5-6	ED006 6-6.5	ED006 6-6.5	ED007 4-4.5	ED007 4.5-5	ED007 5-5.5	ED007 5.5-6
Client Sample ID:			Soil Screening (NJAC)	JB44447-61	JB44447-61R	JB44447-62	JB44447-62R	JB44447-63	JB44447-63R	JB44447-64	JB44447-64R	JB44205-37	JB44205-38	JB44205-39	JB44205-40
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)													
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED							EXCAVATED	EXCAVATED	EXCAVATED	
Antimony (mg/kg)	450	31	6	<2.2	----	<2.2	----	<2.3	----	<2.4	----	<2.3 NJ-	<2.4 NJ-	<2.0 NJ-	<2.0 NJ-
Chromium (mg/kg)	120,000	N/A	N/A	898	----	152	----	29	----	13	----	16.5 NJ+	16.9 NJ+	30.7 NJ+	29.5 NJ+
Nickel (mg/kg)	23,000	1,600	205**	15.1	----	13.8	----	16.5	----	12.2	----	12.5	13.9	14.9	16.3
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.2	----	<1.2	----	<1.1	<1.2	<0.99	<0.99
Vanadium (mg/kg)	1,100	390	N/A	34.5	----	24.5	----	22.4	----	17.7	----	21.3	25.2	19.7	20.6
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	15.5 NJ-	27.2 NJ-	4.6 NJ-	11.5 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.46 NJ-	<0.47 NJ-	<0.50 NJ-	<0.51 NJ-
pH	N/A	N/A	N/A	9.77	----	9.57	----	8.76	----	8.59	----	9.14	9.03	8.3	7.76
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	130	----	131	----	149	----	161	----	162	167	197	292
Solids, Percent (%)	N/A	N/A	N/A	89.1	----	88.5	----	82.3	----	83	----	87.7	84.7	79.4	77.9

Analytical Data Qualifiers:

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NOTES:

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Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				ED008				ED009							
	NJ	NJ	NJ Default	4.5-5	5-5.5	5.5-6	6-6.5	4-4.5	4-4.5	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3-3.5	2.5-3	2-2.5	1.5-2	3.6-4.1	3.6-4.1	3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1	2.1-2.6	2.1-2.6
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	ED008 4.5-5	ED008 5-5.5	ED008 5.5-6	ED008 6-6.5	ED009 4-4.5	ED009 4-4.5	ED009 4.5-5	ED009 4.5-5	ED009 5-5.5	ED009 5-5.5	ED009 5.5-6	ED009 5.5-6
Client Sample ID:			Soil Screening (NJAC)	JB44205-21	JB44205-22	JB44205-23	JB44205-24	JB44447-53	JB44447-53R	JB44447-54	JB44447-54R	JB44447-55	JB44447-55R	JB44447-56	JB44447-56R
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
Date Sampled:	7:26D 5/12)	7:26D 5/12)		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED	EXCAVATED	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED		
Excavation Status:															
Antimony (mg/kg)	450	31	6	<2.4 NJ-	<2.4 NJ-	<2.0 NJ-	<2.0 NJ-	<2.3	----	<2.5	----	<2.4	----	<2.4	----
Chromium (mg/kg)	120,000	N/A	N/A	16 NJ+	69.5 NJ+	15.3 NJ+	18 NJ+	18.6	----	19.3	----	50.7	----	20.2	----
Nickel (mg/kg)	23,000	1,600	205**	14.8	14.5	13.5	13.1	13.9	----	15	----	18	----	16	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<0.98	<1.0	<1.2	----	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	21.6	22.3	18.1	17.9	23.5	----	24.2	----	26.3	----	21.6	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	<0.47 NJ-	<0.49 NJ-	0.62 NJ-	1 NJ-	<0.46 NJ-	<0.46 NJ-	<0.47 NJ-	<0.47 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	8.95	8.51	8.56	8.8	8.93	----	8.63	----	8.43	----	8.48	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	276	286	305	329	161	----	158	----	129	----	156	----
Solids, Percent (%)	N/A	N/A	N/A	84.4	82.3	79.6	77.3	87.2	----	84.3	----	82.3	----	81.4	----

Analytical Data Qualifiers:

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ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	ED010										
	NJ	NJ	NJ Default	4-4.5	4-4.5	4.5-5	4.5-5	7.5-8	7.5-8	8-8.5	8-8.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	4-4.5	4-4.5	3.5-4	3.5-4	0.5-1	0.5-1	0-0.5	0-0.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	ED010 4-4.5	ED010 4-4.5	ED010 4.5-5	ED010 4.5-5	ED010 7.5-8	ED010 7.5-8	ED010 8-8.5	ED010 8-8.5
Client Sample ID:			Soil Screening (NJAC)	JB44447-69	JB44447-69R	JB44447-70	JB44447-70R	JB44447-71	JB44447-71R	JB44447-72	JB44447-72R
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Date Sampled:	7:26D 5/12)	7:26D 5/12)		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED				
Excavation Status:											
Antimony (mg/kg)	450	31	6	<2.3	----	<2.4	----	<2.4	----	<2.5	----
Chromium (mg/kg)	120,000	N/A	N/A	143	----	22.2	----	77.6	----	23.5	----
Nickel (mg/kg)	23,000	1,600	205**	18.9	----	15.8	----	13.5	----	12.2	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	27.7	----	25.2	----	24.6	----	21.6	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	4.7 NJ-	0.54 NJ-	1.4 NJ-	2.3 NJ-	1.3 NJ-	13 NJ-	0.52 NJ-	<0.50 NJ-
pH	N/A	N/A	N/A	8.82	----	8.36	----	8.63	----	8.49	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	177	----	165	----	165	----	157	----
Solids, Percent (%)	N/A	N/A	N/A	84.1	----	85.3	----	82.9	----	80.2	----

Analytical Data Qualifiers:

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*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	ED011										
	NJ	NJ	NJ Default	3-3.5	3-3.5	3.5-4	3.5-4	4-4.5	4-4.5	4.5-5	4.5-5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	5.5-6	5.5-6	5-5.5	5-5.5	4.5-5	4.5-5	4-4.5	4-4.5
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	ED011 3-3.5	ED011 3-3.5	ED011 3.5-4	ED011 3.5-4	ED011 4-4.5	ED011 4-4.5	ED011 4.5-5	ED011 4.5-5
Client Sample ID:			Soil Screening (NJAC)	ED011 3-3.5	ED011 3-3.5	ED011 3.5-4	ED011 3.5-4	ED011 4-4.5	ED011 4-4.5	ED011 4.5-5	ED011 4.5-5
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	7:26D 11/13)	JB44447-41	JB44447-41R	JB44447-42	JB44447-42R	JB44447-43	JB44447-43R	JB44447-44	JB44447-44R
Date Sampled:	7:26D 5/12)	7:26D 5/12)		8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED
Antimony (mg/kg)	450	31	6	13.1 ^a NJ-	----	29.3 ^a NJ-	----	38.2 ^a NJ-	----	43.0 ^a NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	16900	----	21200	----	22200	----	22600	----
Nickel (mg/kg)	23,000	1,600	205**	25.3	----	25	----	26.5	----	30.7	----
Thallium (mg/kg)	79	5	3	<5.0 ^a	----	<4.9 ^a	----	<5.1 ^a	----	<5.0 ^a	----
Vanadium (mg/kg)	1,100	390	N/A	454 ^a	----	444 ^a	----	383 ^a	----	422 ^a	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	9.5 NJ-	27.2 NJ-	39.1 NJ-	61.9 NJ-	83.4 NJ-	92.1 NJ-	95.5 NJ-	188 NJ-
pH	N/A	N/A	N/A	9.71	----	9.96	----	9.96	----	9.96	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	206	----	207	----	206	----	202	----
Solids, Percent (%)	N/A	N/A	N/A	65.4	----	66	----	65.4	----	64	----

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J - The reported result is an estimated value.

*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				ED012								ED013			
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	5.5-6	6-6.5	6.5-7	7-7.5
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.2-3.7	3.2-3.7	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	2.4-2.9	1.9-2.4	1.4-1.9	0.9-1.4
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to												
Client Sample ID:			Soil Screening	ED012 4.5-5	ED012 4.5-5	ED012 5-5.5	ED012 5-5.5	ED012 5.5-6	ED012 5.5-6	ED012 6-6.5	ED012 6-6.5	ED013 5.5-6	ED013 6-6.5	ED013 6.5-7	ED013 7-7.5
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)	(NJAC)	JB44447-45	JB44447-45R	JB44447-46	JB44447-46R	JB44447-47	JB44447-47R	JB44447-48	JB44447-48R	JB44447-5	JB44447-6	JB44447-7	JB44447-8
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED				
Antimony (mg/kg)	450	31	6	<2.0 NJ-	----	<2.5 NJ-	----	<2.0 NJ-	----	<2.4	----	<2.0	<2.4	<2.3	<2.4
Chromium (mg/kg)	120,000	N/A	N/A	46.3	----	37.4	----	137	----	1620	----	647	15.3	70.9	60.6
Nickel (mg/kg)	23,000	1,600	205**	34.2	----	17.9	----	37.7	----	13.4	----	18.8	14.7	15.5	15.7
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<0.99	----	<1.2	----	<1.0	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	37.8	----	35.9	----	64.1	----	31.5	----	35	17.8	22.2	22.2
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	0.69 NJ-	<0.54 NJ-	1.6 NJ-	1.7 NJ-	1.5 NJ-	2 NJ-	46.6 NJ-	19.5 NJ-	0.53 NJ-	<0.49 NJ-	<0.48 NJ-	<0.49 NJ-
pH	N/A	N/A	N/A	8.95	----	9	----	8.94	----	9	----	8.35	7.62	7.8	7.99
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	177	----	149	----	145	----	148	----	127	123	131	147
Solids, Percent (%)	N/A	N/A	N/A	74.5	----	82.7	----	61.2	----	85.4	----	75	81.1	83.5	82.1

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

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R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:				FD001				FD002							
	NJ	NJ	NJ Default	4.5-5	6-6.5	6.5-7	7-7.5	4-4.5	4-4.5	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6
Sample Depth (ft bgs):	Non-Residential	Residential	Groundwater	3.6-4.1	2.1-2.6	1.6-2.1	1.1-1.6	4.1-4.6	4.1-4.6	3.6-4.1	3.6-4.1	3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Impact to	FD001 4.5-5	FD001 6-6.5	FD001 6.5-7	FD001 7-7.5	FD002 4-4.5	FD002 4-4.5	FD002 4.5-5	FD002 4.5-5	FD002 5-5.5	FD002 5-5.5	FD002 5.5-6	FD002 5.5-6
Client Sample ID:			Soil Screening (NJAC)	JB44205-41	JB44205-42	JB44205-43	JB44205-44	JB44447-57	JB44447-57R	JB44447-58	JB44447-58R	JB44447-59	JB44447-59R	JB44447-60	JB44447-60R
Lab Sample ID:	Soil (NJAC)	Soil (NJAC)													
Date Sampled:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED				EXCAVATED	EXCAVATED						
Antimony (mg/kg)	450	31	6	11.8 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.3	----	<2.2	----	<2.4	----	<2.5	----
Chromium (mg/kg)	120,000	N/A	N/A	1560	18.6	14.9	16.1	3250	----	214	----	70.5	----	17.7	----
Nickel (mg/kg)	23,000	1,600	205**	17.5	15.6	13.1	13.4	23	----	21.4	----	13.4	----	11.4	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.2	<1.2	----	<1.1	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	N/A	48.4	23	19.7	20.8	69.5	----	47.8	----	21.9	----	16.6	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	5.3 NJ-	<0.46 NJ-	<0.49 NJ-	<0.47 NJ-	95.5 NJ-	111 NJ-	7.4 NJ-	7.7 NJ-	9.6 NJ-	0.97 NJ-	<0.47 NJ-	<0.47 NJ-
pH	N/A	N/A	N/A	8.19	8.02	7.56	7.6	9.19	----	9.18	----	9.22	----	7.35	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	289	284	282	281	118	----	176	----	177	----	179	----
Solids, Percent (%)	N/A	N/A	N/A	87.3	86.2	81.8	85.8	88.4	----	88.1	----	84.3	----	84.9	----

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J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4C
Historical Soil Samples
– Design Borings (2013)
Complete Laboratory Analytical Summary Table
PPG Site 63, 1 Burma Road Jersey City, NJ
2013- Sampled by CB&I

Sample Location:	FD004										
	NJ	NJ	NJ Default	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Sample Depth (ft bgs):				3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1	2.1-2.6	2.1-2.6	1.6-2.1	1.6-2.1
Sample Elevation (ft msl):											
Client Sample ID:	Non-Residential	Residential	Groundwater	FD004 4.5-5	FD004 4.5-5	FD004 5-5.5	FD004 5-5.5	FD004 5.5-6	FD004 5.5-6	FD004 6-6.5	FD004 6-6.5
Lab Sample ID:	Direct Contact	Direct Contact	Impact to	JB44447-25	JB44447-25R	JB44447-26	JB44447-26R	JB44447-27	JB44447-27R	JB44447-28	JB44447-28R
Date Sampled:	Soil (NJAC)	Soil (NJAC)	Soil Screening (NJAC)	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:	7:26D 5/12)	7:26D 5/12)	7:26D 11/13)	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED		
Antimony (mg/kg)	450	31	6	<2.0 NJ-	----	<2.5 NJ-	----	<2.4 NJ-	----	<2.0 NJ-	----
Chromium (mg/kg)	120,000	N/A	N/A	58.8	----	55.7	----	15	----	12.6	----
Nickel (mg/kg)	23,000	1,600	205**	13	----	14.8	----	16.2	----	12.7	----
Thallium (mg/kg)	79	5	3	<0.99	----	<1.2	----	<1.2	----	<0.99	----
Vanadium (mg/kg)	1,100	390	N/A	23.9	----	17.3	----	19.2	----	16.9	----
Chromium, Hexavalent (mg/kg)	20	N/A	N/A	0.65 NJ-	<0.50 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.52 NJ-	<0.52 NJ-
pH	N/A	N/A	N/A	8.75	----	8.05	----	7.77	----	7.27	----
Redox Potential Vs H2 (mV)	N/A	N/A	N/A	158	----	170	----	184	----	200	----
Solids, Percent (%)	N/A	N/A	N/A	79.9	----	81.9	----	82.2	----	77.2	----

Analytical Data Qualifiers:

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J- -The result is estimated and may be biased low.

R - The reported result is rejected .

NOTES:

ft msl = Feet Mean Sea Level

ft bgs = Feet Below Ground Surface

^a Elevated detection limit due to dilution required for high interfering element.

* Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analysis.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Compliance averaged to below standards/criteria.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

N/A= Not Applicable

Result exceeded criteria

Table 4D
Historical Soil Samples - Analytical Rerun Summary Table (2013)
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Sample Location:	CD010	CD012	CD014	CD019	ED004	ED006
Sample Depth (ft bgs):	4.5-5	5.5-6	8.5-9	4.5-5	4-4.5	4.5-5
Client Sample ID:	CD010 4.5-5	CD012 5.5-6	CD014 8.5-9	CD019 4.5-5	ED004 4-4.5	ED006 4.5-5
Lab Sample ID:	JB46883-1RT	JB46800-18RT	JB44447-34RT	JB47183-2RT	JB44447-49RT	JB44447-62RT
Date Sampled:	9/10/2013	9/9/2013	8/8/2013	9/12/2013	8/6/2013	8/7/2013
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil
Iron, Ferrous (%)	1.2 ^a	0.74 ^a	0.96 ^a	3.1 ^a	0.71 ^a	1.1 ^a
Sulfide Screen	NEGATIVE ^b	NEGATIVE ^b	NEGATIVE ^b	NEGATIVE ^b	NEGATIVE ^b	NEGATIVE ^b
Total Organic Carbon (mg/Kg)	2680 ^c	2330 ^c	4150 ^c	68400 ^c	4400 ^c	4110 ^c

Footnotes:

^a The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^b The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

^c Analysis done out of holding time.

mg/kg = milligram per kilogram

ft bgs = feet below ground surface

Table 4E
Historical Soil Samples
Remedial Investigation Borings (2012-2013)
Complete Summary Laboratory Analytical Data including Excavated Exceedances
PPG Sites 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_C013					063_C013A				
				0.5-1 6.5-7	5-5.5 2-2.5	10-10.5 -2 - (-2.5)	15-15.5 -7 - (-7.5)	20-20.5 -12 - (-12.50)	0-0.5 10.5-11	0.5-1 10-10.5	1.5-2 9-9.5	2.5-3 8-8.5	3.5-4 7-7.5
Excavated:				EXCAVATED									
Sample ID:				460-48605-16	460-48605-17	460-48605-18	460-48605-19	460-48605-27	460-52992-6	460-52992-7	460-52992-8	460-52992-9	460-52992-10
Date:				12/17/2012	12/17/2012	12/17/2012	12/17/2012	12/17/2012	03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	1.2	0.42 U	0.41 U	1.2 U	0.41 U	10.0*	18.8*	9.8*	11.1*	12.4*
Chromium (mg/kg)	120,000	N/A	N/A	389	86.7	16.5	14.9	14.3	295	60.5	192	127	94.5
Nickel (mg/kg)	23,000	1,600	205**	32.6	12.2	13.4	12.4	11	84.9	51.7	69.3	53.7	54.2
Thallium (mg/kg)	79	5	3	0.22 U	0.2 U	0.19 U	0.58 U	0.19 U	0.22 U	0.21 U	0.23 U	0.20 U	0.21 U
Vanadium (mg/kg)	1,100	390	N/A	64.3	20.6	20.6	20.1	22	41.4	37.5	49.6	34.7	30.6
Hexavalent Chromium (mg/kg)	20	N/A	N/A	3.4	0.85 U	0.85 U	2.4 U	0.83 U	0.63 U	0.59 U	0.66 U	0.56 U	0.58 U

U = NON DETECT

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ft msl = FEET MEAN SEA LEVEL

ft bgs = FEET BELOW GROUND SURFACE

mg/kg= MILLIGRAM PER KILOGRAM

* METAL EXCEEDANCE AT THIS LOCATION ARE NOT INDICATIVE OF CCPW RELATED CONTAMINATION

** SITE SPECIFIC - IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

N/A = Not Applicable

Result exceeded criteria

Table 4E
Historical Soil Samples
Remedial Investigation Borings (2012-2013)
Complete Summary Laboratory Analytical Data including Excavated Exceedances
PPG Sites 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_C014A					063_F010				
				0-0.5	0.5-1	1.5-2	2.5-3	3.5-4	0	5	10	15	20
Sample Depth (ft bgs):				7.2-7.7	6.7-7.2	5.7-6.2	4.7-5.2	3.7-4.2					
Sample Elevation(ft msl):									10.7	5.7	0.7	-4.3	-9.3
Excavated:													
Sample ID:				460-52992-1	460-52992-2	460-52992-3	460-52992-4	460-52992-5	063_F010_0.0	063_F010_5.0	F010_10.0	063_F010_15.0	063_F010_20.0
Date:				03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013	12/17/2012	12/17/2012	12/17/2012	12/17/2012	12/17/2012
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	1.8	1.7	0.41 U	0.83	0.76	3.3	0.46 U	0.42 U	0.4 U	0.41 U
Chromium (mg/kg)	120,000	N/A	N/A	290	304	18.6	163	220	154	15.1	24.7	14.1	16.8
Nickel (mg/kg)	23,000	1,600	205**	71.5	91.3	11.1	35.6	41.6	65.2	12.5	14.4	9.2	10
Thallium (mg/kg)	79	5	3	0.22 U	0.23 U	0.19 U	0.20 U	0.20 U	0.2 U	0.22 U	0.2 U	0.19 U	0.2 U
Vanadium (mg/kg)	1,100	390	N/A	50.2	46.3	11.8	31.3	37.8	44	21.6	28.7	21	27.7
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.64 U	0.65 U	0.57 U	0.60 U	0.60 U	1.6 J	1.1 J	0.86 U	0.83 U	0.85 U

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** SITE SPECIFIC - IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

N/A = Not Applicable

Result exceeded criteria

Table 4E
Historical Soil Samples
Remedial Investigation Borings (2012-2013)
Complete Summary Laboratory Analytical Data including Excavated Exceedances
PPG Sites 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_F010a					063_Z002					
				0-0.5	0.5-1	1.5-2	2.5-3	3.5-4	0	8.5	12	12	12	16.5
Sample Depth (ft bgs):				10.2-10.7	9.7-10.2	8.7-9.2	7.7-8.2	6.7-7.2	8.4	-0.1	-3.6	-3.6	-3.6	-8.1
Sample Elevation(ft msl):									EXCAVATED					
Excavated:														
Sample ID:				460-53059-1	460-53059-2	460-53059-3	460-53059-4	460-53059-5	063_Z002_0.0	063_Z002_8.5	063_Z002_12.0	063_Z002_12.0	063_Z002_12.0-D	063_Z002_16.5
Date:				03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013	12/19/2012	12/19/2012	12/19/2012	12/19/2012	12/19/2012	12/19/2012
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	0.54	0.41	0.41	0.88	3.0	0.38 J	0.4 UJ	0.38 UJ	0.38 U	0.38 UJ	0.42 U
Chromium (mg/kg)	120,000	N/A	N/A	34.1	29.0	29.3	163	41.2	1580	15.2	14.5	15.45	16.4	15.5
Nickel (mg/kg)	23,000	1,600	205**	18.5	13.6	22.2	46.6	30.7	67.6	13.8	9.5	9.45	9.4	11.1 J
Thallium (mg/kg)	79	5	3	0.27	0.21	0.23	0.23	0.52	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.2 U
Vanadium (mg/kg)	1,100	390	N/A	44.0	32.4	38.4	45.2	49.4	68.3	22	18.7	17.9	17.1	23 J
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.69 U	0.58 U	0.56 U	0.67 U	0.63 U	0.88 U	0.87 U	0.85 U	0.83 U	0.81 U	0.83 U

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** SITE SPECIFIC - IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

N/A = Not Applicable

Result exceeded criteria

Table 4E
Historical Soil Samples
Remedial Investigation Borings (2012-2013)
Complete Summary Laboratory Analytical Data including Excavated Exceedances
PPG Sites 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_Z005					MW-9				
				0.5	5	10	15	20	0-0.5	0.5-1	2-2.5	3.5-4	6.5-7
Sample Depth (ft bgs):				7	2.5	-2.5	-7.5	-12.5	9.9-10.4	9.4-9.9	7.9-8.4	6.4-6.9	3.4-3.9
Sample Elevation(ft msl):				EXCAVATED					EXCAVATED	EXCAVATED	EXCAVATED		
Excavated:				063_Z005_0.5	063_Z005_5.0	063_Z005_10.0	063_Z005_15.0	063_Z005_20.0	460-52992-11	460-52992-12	460-53059-12	460-52992-13	460-53059-11
Sample ID:				12/21/2012	12/21/2012	12/21/2012	12/21/2012	12/21/2012	03/25/2013	03/25/2013	03/26/2013	03/25/2013	03/26/2013
Date:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix:													
Antimony (mg/kg)	450	31	6	0.36 UJ	1.9 J	0.66 UJ	0.4 UJ	0.44 UJ	0.56 J	0.43 U	2.1	0.47 U	0.43 U
Chromium (mg/kg)	120,000	N/A	N/A	9.6	860	245	21.8	11.6	64.4	28.1	92.7	678	24.4
Nickel (mg/kg)	23,000	1,600	205**	9.3	9.9	26.2	10	9.5	17.8	14.5	21.8	13.7	16.5
Thallium (mg/kg)	79	5	3	0.17 U	0.2 U	0.31 U	0.19 U	0.21 U	0.23 U	0.20 U	0.23 U	0.22 U	0.22 J
Vanadium (mg/kg)	1,100	390	N/A	19 J	20.6 J	25.8 J	19.7 J	16.2 J	35.6	16.2	44.0	30.5	38.5
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.8 U	0.95 U	1.4 U	0.81 U	0.85 U	0.67 U	0.58 U	0.66 U	0.61U	0.58 U

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** SITE SPECIFIC - IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

N/A = Not Applicable

Result exceeded criteria

Table 4E
Historical Soil Samples
Remedial Investigation Borings (2012-2013)
Complete Summary Laboratory Analytical Data including Excavated Exceedances
PPG Sites 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	MW-12			
				0-0.5 9.3-9.8	0.5-1 8.8-9.3	3.5-4 5.8-6.3	7.5-8 1.8-2.3
Excavated:				EXCAVATED			
Sample ID:				460-52992-14	460-52992-15	460-52992-16	460-53059-13
Date:				03/25/2013	03/25/2013	03/25/2013	03/26/2013
Matrix:				Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	0.38 U	0.46 U	0.52 U	0.44 U
Chromium (mg/kg)	120,000	N/A	N/A	17.7	941	44.6	54.1
Nickel (mg/kg)	23,000	1,600	205**	11.5	27.2	14.5	24.7
Thallium (mg/kg)	79	5	3	0.18 U	0.22 U	0.25 U	0.30
Vanadium (mg/kg)	1,100	390	N/A	17.4	44.6	22.3	62.3
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.53 U	0.64 U	0.71 U	0.60 U

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** SITE SPECIFIC - IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

N/A = Not Applicable

Result exceeded criteria

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B003a										
				063_B003a_0.0	063_B003a_0.5	063_B003a_1.0	063_B003a_5.0	063_B003a_5.0-D	063_B003a_6.9	063_B003a_11.0	063_B003a_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29144-12	460-29144-13	460-29144-14	460-29144-15	460-29144-16	460-29144-17	460-29144-18	460-29144-19			
LABORATORY ID				0	0.5	1	5	5	6.9	11	15			
TOP OF SAMPLE (ft bgs)				8.4	7.9	7.4	3.4	3.4	1.5	-2.6	-6.6			
SAMPLE ELEVATION (ft msl)				7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED								
EXCAVATION STATUS														
Metals (mg/kg)														
ANTIMONY				450	31	6	0.89 UJ	0.94 UJ	0.97 UJ	0.96 UJ	0.92 UJ	0.98 UJ	1.2 UJ	0.96 UJ
CHROMIUM	120000	N/A	N/A	45.9	1790	473	36.7	32.1	14.9	17.7	26.3			
NICKEL	23000	1600	205**	14.8	86.2	94.5	17.1	16.3	12.6	4.3 J	13.5			
THALLIUM	79	5	3	0.98 U	1 U	1.1 U	1.1 U	1 U	1.1 U	1.3 U	1.1 U			
VANADIUM	1100	390	N/A	45	144	36.3	37.8	31.6	23.6	42.4	24.9			
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	0.51 U	0.8 J	0.61 J	0.57 U	0.55 U	0.58 U	0.72 U	0.54 U			
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	471	448	403	405	412	410	427	478			
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	9.48	8.75	8.34	8.14	8.02	7.85	7.31	7.96			

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mv = MILLIVOLTS

s.u. = STANDARD UNITS

** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW STANDARD

^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

N/A = NOT APPLICABLE

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B004						
				063_B004_0.0	063_B004_3.0	063_B004_10.0	063_B004_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29057-1	460-29057-2	460-29057-3	460-29057-4			
LABORATORY ID				0	3	10	15			
TOP OF SAMPLE (ft bgs)				8.6	5.6	-1.4	-6.4			
SAMPLE ELEVATION (ft msl)				7/21/2011	7/21/2011	7/21/2011	7/21/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED					
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.86 UJ	1 UJ	2.2 UJ	0.95 UJ
CHROMIUM	120000	N/A	N/A	38.6	1380	207	15.1			
NICKEL	23000	1600	205**	16.9	14.4	20 J	11.5			
THALLIUM	79	5	3	0.95 U	1.1 U	2.5 U	1 U			
VANADIUM	1100	390	N/A	36.3	53.2	30.7	22.6			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.52 U	0.62 U	1.3 U	0.54 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	484	279	346	375			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.66	9.7	7.55	8.01			

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TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW
STANDARD

^ SAMPLE IS BELOW WATER TABLE
THEREFORE NJDEP IGWSSL DOES NOT
APPLY

N/A = NOT APPLICABLE

**EXCEEDS MINIMUM STANDARD/SCREENING
CRITERIA**

NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B004a										
				063_B004a_0.0	063_B004a_0.5	063_B004a_1.2	063_B004a_5.0	063_B004a_5.0-D	063_B004a_8.1	063_B004a_12.0	063_B004a_16.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29144-1	460-29144-2	460-29144-3	460-29144-4	460-29144-5	460-29144-6	460-29144-7	460-29144-8			
LABORATORY ID				0	0.5	1.2	5	5	8.1	12	16			
TOP OF SAMPLE (ft bgs)				8.5	8	7.3	3.5	3.5	0.4	-3.5	-7.5			
SAMPLE ELEVATION (ft msl)				7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)										
ANTIMONY				450	31	6	0.98 UJ	1 UJ	1 UJ	0.94 UJ	1 UJ	0.99 UJ	1.1 UJ	0.93 UJ
CHROMIUM				120000	N/A	N/A	2050	1340	2270	21.6	23.9	12.9	16.3	14.9
NICKEL	23000	1600	205**	91.2	94.2	54.8	12.6	12.1	10.4	5.5 J	12.3			
THALLIUM	79	5	3	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.2 U	1 U			
VANADIUM	1100	390	N/A	124	126	176	26.1	28.6	17.7	46.3	19.3			
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	12.6	8.1	6.3	0.59 J	0.58 U	7.1	0.6 U	0.56 U			
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	476	403	331	378	388	392	334	372			
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	8.45	9.61	10.9	8.6	8.55	8.43	7.58	8.1			

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 ***COMPLIANCE AVERAGED BELOW STANDARD
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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B005							
				063_B005_1.3	063_B005_3.3	063_B005_11.4	063_B005_15.5	063_B005_20.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28939-7	460-28939-8	460-28939-9	460-28939-10	460-28939-11			
LABORATORY ID				1.3	3.3	11.4	15.5	20			
TOP OF SAMPLE (ft bgs)				6.3	4.3	-3.8	-7.9	-12.4			
SAMPLE ELEVATION (ft msl)				7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED						
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	38.2 J	5.9 J	0.93 UJ	0.97 UJ	0.94 UJ
CHROMIUM	120000	N/A	N/A	10400	2610	29.3	14.4	33.1			
NICKEL	23000	1600	205**	34.8	14.7	13.2	6.2 J	12.5			
THALLIUM	79	5	3	14 U	2.7 U	1 U	1.1 U	1 U			
VANADIUM	1100	390	N/A	41.1	35.5	25	15.5	23.1			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	16.3 J	0.56 UJ	0.54 UJ	0.55 UJ	0.54 UJ			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	327	289	338	450	448			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	10.4	10.8	9.03	8.36	8.57			

Notes:

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TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW
STANDARD

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EXCEEDS MINIMUM STANDARD/SCREENING
CRITERIA

NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B006								
				063_B006_1.0	063_B006_1.5	063_B006_2.0	063_B006_6.5	063_B006_10.0	063_B006_12.2			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28862-1	460-28862-2	460-28862-3	460-28862-4	460-28862-5	460-28862-6			
LABORATORY ID				1	1.5	2	6.5	10	12.2			
TOP OF SAMPLE (ft bgs)				6.1	5.6	5.1	0.6	-2.9	-5.1			
SAMPLE ELEVATION (ft msl)				7/15/2011	7/15/2011	7/15/2011	7/15/2011	7/15/2011	7/15/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED					
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	1 UJ	1 UJ	2.8 J	0.93 UJ	2.6 UJ	1.1 UJ
CHROMIUM				120000	N/A	N/A	1640 J	3700 J	3080 J	14.9 J	932 J	13.1 J
NICKEL	23000	1600	205**	38.9	85.2	29.9	11.2	20.6 J	8.4 J			
THALLIUM	79	5	3	1.1 U	2.8 U	3 U	1 U	2.8 U	1.3 U			
VANADIUM	1100	390	N/A	68.4	95.7	18.3	18.5	20.6 J	22.6			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	33.3 J	23.9 J	34.2 J	1 J	1.5 UJ	0.64 UJ			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	383	320	327	379	384	513			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	11.4	11.8	11.6	8.41	8.09	8.01			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B007								
				063_B007_1.0	063_B007_5.0	063_B007_7.1	063_B007_11.1	063_B007_15.0	063_B007_15.0-D			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28939-1	460-28939-2	460-28939-3	460-28939-4	460-28939-5	460-28939-6			
LABORATORY ID				1	5	7.1	11.1	15	15			
TOP OF SAMPLE (ft bgs)				6.5	2.5	0.4	-3.6	-7.5	-7.5			
SAMPLE ELEVATION (ft msl)				7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	0.91 UJ	0.93 UJ	0.9 UJ	3.3 UJ	0.95 UJ	0.97 UJ
CHROMIUM	120000	N/A	N/A	1480	83	11.8	14.2	14	16.7			
NICKEL	23000	1600	205**	33.6	14.5	11.4	13.3 J	6.2 J	6.6 J			
THALLIUM	79	5	3	1 U	1 U	0.99 U	3.6 U	1 U	1.1 U			
VANADIUM	1100	390	N/A	79.4	28	15.6	18 J	15.3	17.1			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	2.5 J	0.56 UJ	0.55 UJ	1.9 UJ	0.57 UJ	0.57 UJ			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	328	408	445	391	388	394			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	11.2	9.32	8.78	7.61	8.79	8.64			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	063 B008									
SAMPLE ID	NJ	NJ	NJ Default	063 B008 1.0	063 B008 1.6	063 B008 2.1	063 B008 6.5	063 B008 10.0	063 B008 12.8	063 B008 16.5
LABORATORY ID	Non-Residential	Residential	Impact to	460-29032-10	460-29032-11	460-29032-12	460-29032-13	460-29032-14	460-29032-15	460-29032-16
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	1	1.6	2.1	6.5	10	12.8	16.5
SAMPLE ELEVATION (ft msl)	Soil (NJAC	Soil (NJAC	Soil	7.2	6.6	6.1	1.7	-1.8	-4.6	-8.3
SAMPLE DATE	7:26D 5/12)	7:26D 5/12)	Screening	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011
ABOVE/BELOW GW TABLE			(11/13)	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED				
Metals (mg/kg)										
ANTIMONY	450	31	6	2.5 UJ	2.6 UJ	5.7 UJ	0.95 UJ	0.96 UJ	0.97 UJ	0.95 UJ
CHROMIUM	120000	N/A	N/A	24.7	3540	5240	15.9	27.2	21	34.7
NICKEL	23000	1600	205**	8.8 J	40	25.7	13.3	20.2	14.2	19.9
THALLIUM	79	5	3	1.1 U	1.2 U	1.3 U	1 U	1.1 U	1.1 U	1 U
VANADIUM	1100	390	N/A	26.1	65.1	34	20.8	27.1	24.1	48.2
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.58 U	3.9	13.1	0.55 U	0.54 U	0.56 U	0.52 U
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	499	297	301	347	369	395	399
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.49	11.1	10.6	9.27	8.69	7.99	8.22

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063 B009							
				063 B009 0.0	063 B009 0.5	063 B009 1.7	063 B009 9.3	063 B009 13.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28645-6	460-28645-7	460-28645-8	460-28645-9	460-28645-10			
LABORATORY ID				0	0.5	1.7	9.3	13			
TOP OF SAMPLE (ft bgs)				8.3	7.8	6.6	-1	-4.7			
SAMPLE ELEVATION (ft msl)				7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED					
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	4 J	3.8 J	5.2 J	0.67 UJ	0.65 UJ
CHROMIUM	120000	N/A	N/A	1540	256	2860	22.3	27.8			
NICKEL	23000	1600	205**	50.4	13.3	11.8	16.9	15.9			
THALLIUM	79	5	3	0.35 U	0.29 U	0.4 U	0.37 U	0.36 U			
VANADIUM	1100	390	N/A	134 J	15.2 J	17.7 J	33 J	43.1 J			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	2.2 J	1.5 J	1.5 J	0.6 UJ	0.57 UJ			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	411	412	410	433	472			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	7.93	7.53	7.97	8.82	8.27			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	063 B010												
SAMPLE ID	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063 B010_0.0	063 B010_1.5	063 B010_3.0	063 B010_5.0	063 B010_7.3	063 B010_11.0	063 B010_15.0			
LABORATORY ID				460-29336-1	460-29336-2	460-29336-3	460-29336-4	460-29336-5	460-29336-6	460-29336-7			
TOP OF SAMPLE (ft bgs)				0	1.5	3	5	7.3	11	15			
SAMPLE ELEVATION (ft msl)				8.4	6.9	5.4	3.4	1.1	-2.6	-6.6			
SAMPLE DATE				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011			
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Metals (mg/kg)													
ANTIMONY				450	31	6	1.7 J	8.5 J	7.5 J	5.8 UJ	0.91 UJ	2.9 UJ	0.9 UJ
CHROMIUM	120000	N/A	N/A	717	2500	1680	2950	13.5	13	41.8			
NICKEL	23000	1600	205**	42.4	189	84	22.5	11.1	13.7 J	12.1			
THALLIUM	79	5	3	1.1 U	1.1 U	1.1 U	1.3 U	1 U	3.2 U	0.99 U			
VANADIUM	1100	390	N/A	65.4	247	140	32	28.2	19.8 J	44.2			
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	16.6	8.6	3.3	3	0.54 U	1.6 U	0.55 U			
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	423	386	345	341	346	382	379			
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	7.58	9.75	9.74	9.16	9.4	7.54	8.35			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B010a								
				063_B010a_0.0	063_B010a_5.0	063_B010a_7.5	063_B010a_11.5	063_B010a_15.0	063_B010a_15.0-D			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-14	460-29302-15	460-29302-16	460-29302-17	460-29302-18	460-29302-19			
LABORATORY ID				0	5	7.5	11.5	15	15			
TOP OF SAMPLE (ft bgs)				8.3	3.3	0.8	-3.2	-6.7	-6.7			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED								
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	0.91 UJ	0.97 UJ	1 UJ	1.1 UJ	0.88 UJ	0.9 UJ
CHROMIUM	120000	N/A	N/A	1430 J	28.9 J	12.5 J	21.5	38.9	33.9			
NICKEL	23000	1600	205**	32.3	10.2	11.9	12.8	16.7	17.3			
THALLIUM	79	5	3	1 U	1.1 U	1.1 U	1.2 U	0.97 U	0.99 U			
VANADIUM	1100	390	N/A	59.4	16.9	15.2	29.7	36.5	39.5			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	4.5	0.6 U	0.64 U	0.66 U	0.54 U	0.55 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	454	434	433	438	412	423			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.29	8.4	7.66	7.47	9.18	8.87			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B011								
				063_B011_0.0	063_B011_0.5	063_B011_5.0	063_B011_10.0	063_B011_15.0	063_B011_18.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29355-12	460-29355-13	460-29355-14	460-29355-15	460-29355-16	460-29355-17			
LABORATORY ID				0	0.5	5	10	15	18			
TOP OF SAMPLE (ft bgs)				7.7	7.2	2.7	-2.3	-7.3	-10.3			
SAMPLE ELEVATION (ft msl)				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	7.1 J	13 J	1 UJ	1.4 UJ	0.97 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	2210 J	6150 J	74.1 J	32.1 J	21.6 J	25.1 J			
NICKEL	23000	1600	205**	120	131	14.1	24.4	13.2	13.7			
THALLIUM	79	5	3	1.1 U	1.2 U	1.1 U	1.5 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	182	185	27.6	29	28.9	34.4			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	9.1	0.66 J	0.57 U	0.82 U	0.58 U	0.56 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	445	415	417	420	427	407			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	7.9	8.17	8.4	8.04	7.59	8.99			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B012/MW-03							
				063_B012_0.0	063_B012_5.0	063_B012_10.5	063_B012_15.0	063_B012_17.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28645-1	460-28645-2	460-28645-3	460-28645-4	460-28645-5			
LABORATORY ID				0	5	10.5	15	17			
TOP OF SAMPLE (ft bgs)				7.2	2.2	-3.3	-7.8	-9.8			
SAMPLE ELEVATION (ft msl)				7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED							
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	4.6 J	0.58 UJ	0.6 UJ	0.66 UJ	0.63 UJ
CHROMIUM	120000	N/A	N/A	4930	14.7	18.1	12.7	17.4			
NICKEL	23000	1600	205**	203	13.1	16.3	7.7	12.6			
THALLIUM	79	5	3	0.33 U	0.32 U	0.33 U	0.37 U	0.35 U			
VANADIUM	1100	390	N/A	280 J	23.2 J	24.8 J	21.3 J	33 J			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	4.9 J	0.55 UJ	0.56 UJ	0.58 UJ	0.55 UJ			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	465	455	455	435	429			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	5.78	8.2	8.13	7.47	8.16			

Notes:

U = NON DETECT

J = ESTIMATED

ft msl = FEET MEAN SEA LEVEL

ft bgs = FEET BELOW GROUND SURFACE

mg/kg = MILLIGRAMS PER KILOGRAM

mv = MILLIVOLTS

s.u. = STANDARD UNITS

** SITE SPECIFIC IGW SSL = DEFAULT IMPACT
TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW
STANDARD

^ SAMPLE IS BELOW WATER TABLE
THEREFORE NJDEP IGWSSL DOES NOT
APPLY

N/A = NOT APPLICABLE

**EXCEEDS MINIMUM STANDARD/SCREENING
CRITERIA**

NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B013								
				063_B013_0.0	063_B013_1.0	063_B013_3.0	063_B013_5.0	063_B013_10.0	063_B013_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29336-19	460-29336-20	460-29336-21	460-29336-22	460-29336-23	460-29336-24			
LABORATORY ID				0	1	3	5	10	15			
TOP OF SAMPLE (ft bgs)				8.9	7.9	5.9	3.9	-1.1	-6.1			
SAMPLE ELEVATION (ft msl)				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	5.3 UJ	5.1 UJ	5.1 UJ	0.98 UJ	2.2 J	2.7 UJ
CHROMIUM				120000	N/A	N/A	2420	3580	3900	155	9.6	22.4
NICKEL	23000	1600	205**	333	230	246	16.6	10 J	12 J			
THALLIUM	79	5	3	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	3 U			
VANADIUM	1100	390	N/A	392	292	315	30.3	10.8 J	24.5 J			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	14.8	41.7	20.4	0.56 UJ	0.64 UJ	1.6 UJ			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	424	422	471	439	413	399			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.7	8.95	8.57	8.12	8.16	7.84			

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** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW STANDARD

^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

N/A = NOT APPLICABLE

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B014										
				063_B014_0.0	063_B014_1.25	063_B014_2.25	063_B014_3.0	063_B014_7.0	063_B014_11.2	063_B014_15.0	063_B014_20.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29195-16	460-29195-17	460-29195-18	460-29195-19	460-29195-20	460-29195-21	460-29195-22	460-29195-23			
LABORATORY ID				0	1.25	2.25	3	7	11.2	15	20			
TOP OF SAMPLE (ft bgs)				8.5	6.75	6.25	5.5	1.5	-2.7	-6.5	-11.5			
SAMPLE ELEVATION (ft msl)				7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED							
EXCAVATION STATUS														
Metals (mg/kg)														
ANTIMONY				450	31	6	0.87 UJ	1 J	0.91 UJ	1.9 J	1 UJ	2.1 J	2.2 UJ	0.9 UJ
CHROMIUM	120000	N/A	N/A	464	144	838	132	16	14.1	26.3	20.1			
NICKEL	23000	1600	205**	51.9	16.9	89.4	18.7	18	12.6	15.7 J	11.4			
THALLIUM	79	5	3	0.96 U	0.99 U	1 U	1.1 U	1.1 U	1.4 U	2.4 U	0.99 U			
VANADIUM	1100	390	N/A	84.9	33	128	38.5	12.3	19.3	25.3	23.4			
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	0.64 J	0.73 J	1.6 J	0.55 UJ	0.66 J	0.74 UJ	1.3 UJ	0.54 UJ			
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	482	504	322	419	375	322	338	430			
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	8.06	7.98	10.8	8.37	8.19	7.69	7.55	5.03			

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	063_B015/MW-04									
SAMPLE ID	NJ	NJ	NJ Default	063_B015_0.0	063_B015_4.0	063_B015_7.3	063_B015_10.5	063_B015_10.5-D	063_B015_15.0	063_B015_17.3
LABORATORY ID	Non-Residential	Residential	Impact to	460-28783-1	460-28783-2	460-28783-3	460-28783-4	460-28783-5	460-28783-6	460-28783-7
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	0	4	7.3	10.5	10.5	15	17.3
SAMPLE ELEVATION (ft msl)	Soil (NJAC	Soil (NJAC	Soil	7	3	-0.3	-3.5	-3.5	-8	-10.3
SAMPLE DATE	7:26D 5/12)	7:26D 5/12)	Screening	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011
ABOVE/BELOW GW TABLE			(11/13)	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY	450	31	6	0.91 UJ	0.95 UJ	1.1 UJ	8.7 J	4.8 J	2.5 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	51.4 J	15.1 J	13.4 J	45.2 J	26.4 J	208 J	8.1 J
NICKEL	23000	1600	205**	24.9	14.6	16.3	18.6	17.5	16.1 J	5.6 J
THALLIUM	79	5	3	1 U	1 U	1.2 U	1.5 U	1.5 U	2.8 U	1.1 U
VANADIUM	1100	390	N/A	50.9	22.7	15.5	15 J	13.5 J	24.5 J	12.7
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.52 J	0.55 U	0.67 U	0.75 U	0.82 J	1.5 U	0.62 U
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	402	480	391	376	366	382	384
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	7.91	7.91	7.81	7.65	7.66	7.25	7.96

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C003								
				063_C003_0.0	063_C003_0.5	063_C003_5.0	063_C003_5.0-D	063_C003_6.7	063_C003_10.5			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29057-5	460-29057-6	460-29057-6	460-29057-7	460-29057-8	460-29057-9			
LABORATORY ID				0	0.5	5	5	6.7	10.5			
TOP OF SAMPLE (ft bgs)				8.4	7.9	3.4	3.4	1.7	-2.1			
SAMPLE ELEVATION (ft msl)				7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	0.94 UJ	0.98 UJ	1.1 UJ	1 UJ	1.1 UJ	1.9 J
CHROMIUM				120000	N/A	N/A	1800 J	1210 J	45.4 J	26.5 J	11.9 J	66.5 J
NICKEL	23000	1600	205**	108	33.5	11.8	11.4	10.5	11.1			
THALLIUM	79	5	3	1 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U			
VANADIUM	1100	390	N/A	154	64.2	19.3	18.3	17.7	50.5			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	3.9	1.2 J	0.6 U	0.6 U	0.61 U	0.61 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	367	371	367	365	368	487			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9	8.66	7.92	7.88	7.6	7.83			

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** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW STANDARD

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N/A = NOT APPLICABLE

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	063 C004												
SAMPLE ID	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063 C004 0.2	063 C004 0.7	063 C004 1.2	063 C004 5.7	063 C004 10.0	063 C004 10.0-D	063 C004 15.0			
LABORATORY ID				460-29057-10	460-29057-12	460-29057-13	460-29057-14	460-29057-15	460-29057-16	460-29057-17			
TOP OF SAMPLE (ft bgs)				0.2	0.7	1.2	5.7	10	10	15			
SAMPLE ELEVATION (ft msl)				8.3	7.8	7.3	2.8	-1.5	-1.5	-6.5			
SAMPLE DATE				7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011			
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Metals (mg/kg)													
ANTIMONY				450	31	6	2.3 UJ	2.7 UJ	1.1 UJ	0.94 UJ	1.6 UJ	1.5 UJ	0.92 UJ
CHROMIUM	120000	N/A	N/A	1590 J	2880 J	3220 J	22.9 J	33.3	22.9	19.3			
NICKEL	23000	1600	205**	147	203	39.4	16.2	7.9 J	8 J	10.9			
THALLIUM	79	5	3	1 U	1.2 U	1.2 U	1 U	1.8 U	1.7 U	1 U			
VANADIUM	1100	390	N/A	177	258	70.6	17.1	30.6	35.5	19.7			
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	13.9	59	18.5	0.55 U	0.94 U	0.91 U	0.55 U			
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	385	319	320	356	391	393	398			
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	10.8	11.4	10.9	8.89	7.47	7.41	7.94			

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C004a							
				063_C004a_0.2	063_C004a_0.7	063_C004a_6.7	063_C004a_11.0	063_C004a_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29144-9	460-29144-10	460-29144-21	460-29144-11	460-29144-22			
LABORATORY ID				0.2	0.7	6.7	11	15			
TOP OF SAMPLE (ft bgs)				8.3	7.8	1.8	-2.5	-6.5			
SAMPLE ELEVATION (ft msl)				7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED						
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.96 UJ	2.8 UJ	1.1 UJ	0.92 UJ	0.89 UJ
CHROMIUM	120000	N/A	N/A	2120	4070	9.8	18.8	50.8			
NICKEL	23000	1600	205**	69.5	46.4	9.8	13.1	16.2			
THALLIUM	79	5	3	1.1 U	1.2 U	1.2 U	1 U	0.98 U			
VANADIUM	1100	390	N/A	134	106	15.3	20.2	22.3			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.56 U	10	0.61 U	0.55 U	0.53 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	512	513	465	501	396			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.61	8.63	8.38	8.28	7.58			

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C005								
				063_C005_1.0	063_C005_2.0	063_C005_2.5	063_C005_7.5	063_C005_11.5	063_C005_15.5			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28742-6	460-28742-7	460-28742-8	460-28742-9	460-28742-10	460-28742-11			
LABORATORY ID				1	2	2.5	7.5	11.5	15.5			
TOP OF SAMPLE (ft bgs)				6.4	5.4	4.9	-0.1	-4.1	-8.1			
SAMPLE ELEVATION (ft msl)				7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	1.3 J	6.8 J	32.8 UJ	0.93 UJ	0.93 UJ	2.4 UJ
CHROMIUM				120000	N/A	N/A	743	6080	32900 J	479 J	14.9 J	2470 J
NICKEL	23000	1600	205**	27.7	551	661 J	12.9 J	8.9 J	15.3 J			
THALLIUM	79	5	3	1.1 U	6.3 U	36 U	1 U	1 U	2.7 U			
VANADIUM	1100	390	N/A	49.7	718	539	19	24.2	29.9			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	2.5 J	1560 J	9470 J	1.4 J	0.56 U	0.56 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	357	233	213	265	460	457			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	10.5	12.6	12.4	9.79	8.26	8.17			

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** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW STANDARD

^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

N/A = NOT APPLICABLE

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	063 C006												
SAMPLE ID	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063 C006 1.0	063 C006 1.75	063 C006 2.25	063 C006 6.5	063 C006 7.5	063 C006 11.5	063 C006 15.5			
LABORATORY ID				460-28742-12	460-28742-13	460-28742-14	460-28742-15	460-28742-16	460-28742-17	460-28742-18			
TOP OF SAMPLE (ft bgs)				1	1.75	2.25	6.5	7.5	11.5	15.5			
SAMPLE ELEVATION (ft msl)				6.9	6.15	5.65	1.4	0.4	-3.6	-7.6			
SAMPLE DATE				7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011			
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Metals (mg/kg)													
ANTIMONY				450	31	6	13.3 UJ	1.2 UJ	0.97 UJ	0.98 UJ	0.99 UJ	0.96 UJ	0.95 UJ
CHROMIUM	120000	N/A	N/A	14200 J	1530 J	13.3 J	39.9 J	17.3 J	12.1 J	12.3 J			
NICKEL	23000	1600	205**	14 J	69.4 J	11.2 J	15.1 J	14.3	6.1 J	12.2			
THALLIUM	79	5	3	14.7 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U			
VANADIUM	1100	390	N/A	100 J	111	18.1	21	19.6	16.7	15.2			
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	9.4	30	12.3	0.58 U	0.6 U	0.55 U	0.54 U			
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	296	227	258	287	323	358	364			
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	11.8	11.9	11.6	9.41	8.96	8.11	8.27			

Notes:

U = NON DETECT

J = ESTIMATED

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C007								
				063_C007_1.0	063_C007_2.3	063_C007_2.8	063_C007_8.0	063_C007_12.0	063_C007_16.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28742-19	460-28742-20	460-28742-21	460-28742-22	460-28742-23	460-28742-24			
LABORATORY ID				1	2.3	2.8	8	12	16			
TOP OF SAMPLE (ft bgs)				6.9	5.6	5.1	-0.1	-4.1	-8.1			
SAMPLE ELEVATION (ft msl)				7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	2.5 UJ	11 J	3.1 J	1.1 UJ	0.98 UJ	1 UJ
CHROMIUM				120000	N/A	N/A	646 J	7550 J	3050 J	12.9 J	19.6 J	13.4 J
NICKEL	23000	1600	205**	9 J	20.3	20.3	13.4	14.2	12.8			
THALLIUM	79	5	3	2.8 U	6 U	2.7 U	1.2 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	24.9 J	38.9	28.7	16.5	21.5	19.7			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	4	10.2	22.7	0.61 U	0.55 U	0.56 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	316	266	312	375	391	414			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	10.4	11.4	11.2	8.2	8.44	7.87			

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NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063 C008							
				063 C008 1.0	063 C008 5.0	063 C008 6.7	063 C008 11.0	063 C008 15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29032-5	460-29032-6	460-29032-7	460-29032-8	460-29032-9			
LABORATORY ID				1	5	6.7	11	15			
TOP OF SAMPLE (ft bgs)				7.1	3.1	1.4	-2.9	-6.9			
SAMPLE ELEVATION (ft msl)				7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED							
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	2.5 UJ	0.98 UJ	1 UJ	1 UJ	0.9 UJ
CHROMIUM	120000	N/A	N/A	99.9	19.9	16	17.8	35			
NICKEL	23000	1600	205**	8.1 J	12	13.3	11	16.6			
THALLIUM	79	5	3	2.7 U	1.1 U	1.1 U	1.1 U	0.99 U			
VANADIUM	1100	390	N/A	23.1 J	17.6	21.7	22.6	37.7			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.57 U	0.6 U	0.61 U	0.57 U	0.52 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	361	361	374	400	488			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.98	9.05	8.02	7.82	8.42			

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CRITERIA**

NON-DETECTION EXCEEDS MINIMUM
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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C009						
				063_C009_1.0	063_C009_5.0	063_C009_6.5	063_C009_14.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29032-1	460-29032-2	460-29032-3	460-29032-4			
LABORATORY ID				1	5	6.5	14			
TOP OF SAMPLE (ft bgs)				7.5	3.5	2	-5.5			
SAMPLE ELEVATION (ft msl)				7/20/2011	7/20/2011	7/20/2011	7/20/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED						
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	1 UJ	1 UJ	1 UJ	2.3 UJ
CHROMIUM	120000	N/A	N/A	1990	70.1	14.5	29.8			
NICKEL	23000	1600	205**	108	9.6	11.7	10.6 J			
THALLIUM	79	5	3	1.1 U	1.1 U	1.1 U	2.5 U			
VANADIUM	1100	390	N/A	132	18.5	21.4	21.5 J			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.79 J	0.59 U	0.59 U	0.54 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	414	433	449	292			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	9.93	9.13	8.29	7.14			

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STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C009a						
				063_C009a_0.0	063_C009a_6.4	063_C009a_10.0	063_C009a_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-26	460-29302-27	460-29302-28	460-29302-29			
LABORATORY ID				0	6.4	10	15			
TOP OF SAMPLE (ft bgs)				7.9	1.5	-2.1	-7.1			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED					
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.87 UJ	9.4 UJ	0.91 UJ	6.6 J ^
CHROMIUM	120000	N/A	N/A	32.5	3830	49.6	3570			
NICKEL	23000	1600	205**	12.8	13.1	10.7	15.8			
THALLIUM	79	5	3	0.96 U	1 U	1 U	1 U			
VANADIUM	1100	390	N/A	41.8	83.9	23.7	87.6			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.51 U	4.2	1.1 J	8.1			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	351	332	347	429			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	7.41	9.62	9.43	10.1			

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STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C010								
				063_C010_0.0	063_C010_0.7	063_C010_1.2	063_C010_6.4	063_C010_10.5	063_C010_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-20	460-29302-21	460-29302-22	460-29302-23	460-29302-24	460-29302-25			
LABORATORY ID				0	0.7	1.2	6.4	10.5	15			
TOP OF SAMPLE (ft bgs)				8.1	7.4	6.9	1.7	-2.4	-6.9			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	5.2 J	10.2 UJ	10.7 UJ	1 UJ	0.99 UJ	0.94 UJ
CHROMIUM				120000	N/A	N/A	1420	4020	12400	14.4	39.6	31.5
NICKEL	23000	1600	205**	27.4	149	31.6	13.7	20.1	13.4			
THALLIUM	79	5	3	0.96 U	1.1 U	1.2 U	1.1 U	1.1 U	1 U			
VANADIUM	1100	390	N/A	58.4	286	104	17.8	48	34.7			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	8.2	3	3.8	0.59 U	0.56 U	0.55 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	507	433	358	486	472	467			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.29	9.22	9.83	7.92	8.3	8.87			

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NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	063_C011												
SAMPLE ID	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_C011_0.4	063_C011_0.9	063_C011_1.4	063_C011_5.0	063_C011_6.7	063_C011_10.5	063_C011_15.0			
LABORATORY ID				460-29195-9	460-29195-10	460-29195-11	460-29195-12	460-29195-13	460-29195-14	460-29195-15			
TOP OF SAMPLE (ft bgs)				0.4	0.9	1.4	5	6.7	10.5	15			
SAMPLE ELEVATION (ft msl)				7.3	6.8	6.3	2.7	1	-2.8	-7.3			
SAMPLE DATE				7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011			
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED							
Metals (mg/kg)													
ANTIMONY				450	31	6	4.9 UJ	5.2 UJ	1.2 UJ	0.98 UJ	1.1 UJ	1.1 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	3380	5260	2060	24.5	11.8	21.9	40.4			
NICKEL	23000	1600	205**	321	285	22.4	12.3	11.9	12.3	20.4			
THALLIUM	79	5	3	1.1 U	1.2 U	1.3 U	1.1 U	1.2 U	1.2 U	1.1 U			
VANADIUM	1100	390	N/A	497	533	50.2	19	15.5	26.4	47.2			
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	7.4 J	0.62 UJ	1.2 J	0.56 UJ	0.6 UJ	0.62 UJ	0.58 UJ			
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	515	464	440	436	438	451	434			
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	8.62	8.44	7.91	8.26	7.66	8.05	8.5			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C012						
				063_C012_0.0	063_C012_6.4	063_C012_10.5	063_C012_15.8			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29336-15	460-29336-16	460-29336-17	460-29336-18			
LABORATORY ID				0	6.4	10.5	15.8			
TOP OF SAMPLE (ft bgs)				7.7	1.3	-2.8	-8.1			
SAMPLE ELEVATION (ft msl)				7/28/2011	7/28/2011	7/28/2011	7/28/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED						
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.93 UJ	0.98 UJ	3.4 UJ	0.95 UJ
CHROMIUM	120000	N/A	N/A	378	15.5	21.8	26.9			
NICKEL	23000	1600	205**	35.2	11.9	19 J	14.7			
THALLIUM	79	5	3	1 U	1.1 U	3.7 U	1 U			
VANADIUM	1100	390	N/A	49	21.3	27.7 J	35.3			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	2.1 J	0.59 U	2 U	0.56 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	451	440	433	457			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	7.96	8.16	8.08	7.78			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063 D003/MW5							
				063 D003 0.0	063 D003 3.8	063 D003 6.7	063 D003 13.0	063 D003 17.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28742-1	460-28742-2	460-28742-3	460-28742-4	460-28742-5			
LABORATORY ID				0	3.8	6.7	13	17			
TOP OF SAMPLE (ft bgs)				9.1	5.3	2.4	-3.9	-7.9			
SAMPLE ELEVATION (ft msl)				7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED						
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.9 UJ	1.1 UJ	0.93 UJ	0.87 UJ	0.92 UJ
CHROMIUM	120000	N/A	N/A	237	14.1	16.2	18.7	9.3			
NICKEL	23000	1600	205**	28.4	11	12.4	11.6	7.3 J			
THALLIUM	79	5	3	0.99 U	1.2 U	1 U	0.96 U	1 U			
VANADIUM	1100	390	N/A	47.3	18.6	23	29.8	14.6			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.53 UJ	0.61 UJ	0.53 UJ	0.55 UJ	0.54 UJ			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	463	388	375	389	404			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.16	7.62	9.33	9.11	8.85			

Notes:

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***COMPLIANCE AVERAGED BELOW STANDARD

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D004										
				063_D004_0.0	063_D004_0.5	063_D004_1.0	063_D004_5.0	063_D004_6.7	063_D004_10.5	063_D004_10.5-D	063_D004_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29195-1	460-29195-2	460-29195-3	460-29195-5	460-29195-4	460-29195-6	460-29195-7	460-29195-8			
LABORATORY ID				0	0.5	1	5	6.7	10.5	10.5	15			
TOP OF SAMPLE (ft bgs)				8.6	8.1	7.6	3.6	1.9	-1.9	-1.9	-6.4			
SAMPLE ELEVATION (ft msl)				7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED								
EXCAVATION STATUS				Metals (mg/kg)										
ANTIMONY				450	31	6	0.92 UJ	0.95 UJ	0.95 UJ	1.1 UJ	1.5 J	0.92 UJ	0.93 UJ	0.97 UJ
CHROMIUM				120000	N/A	N/A	205	586	218	28.2	46.2	23.2	20.2	13
NICKEL	23000	1600	205**	20.6	33.1	9.2	9.5 J	14.6	12.9	11.1	11.4			
THALLIUM	79	5	3	1 U	1 U	1 U	1.3 U	1.1 U	1 U	1 U	1.1 U			
VANADIUM	1100	390	N/A	59.3	46.6	13.4	22.5	60	27.1	32.5	18.2			
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	1.4 J	0.57 UJ	0.56 UJ	0.65 UJ	0.56 UJ	0.55 UJ	0.55 UJ	0.53 UJ			
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	444	451	431	438	438	429	429	433			
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	8.92	8.51	7.96	7.81	8.18	8.65	8.76	8.66			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	063 D005												
SAMPLE ID	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063 D005 0.0	063 D005 0.8	063 D005 1.3	063 D005 1.8	063 D005 6.0	063 D005 10.0	063 D005 15.0			
LABORATORY ID				460-28783-8	460-28783-9	460-28783-10	460-28783-11	460-28783-12	460-28783-13	460-28783-14			
TOP OF SAMPLE (ft bgs)				0	0.8	1.3	1.8	6	10	15			
SAMPLE ELEVATION (ft msl)				8.6	7.8	7.3	6.8	2.6	-1.4	-6.4			
SAMPLE DATE				7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011			
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED						
Metals (mg/kg)													
ANTIMONY				450	31	6	0.89 UJ	0.9 UJ	5 J	0.93 UJ	1.4 UJ	0.95 UJ	0.92 UJ
CHROMIUM	120000	N/A	N/A	133 J	87.4 J	4920 J	104 J	13.8 J	53.8 J	35.9 J			
NICKEL	23000	1600	205**	19.8	15.2	17.2	14.5	12.1 J	12.4	14.1			
THALLIUM	79	5	3	0.98 U	2.5 U	5.2 U	1 U	1.5 U	1 U	1 U			
VANADIUM	1100	390	N/A	31.4	88.5	117	34.6	20.1	28.8	56.7			
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	0.85 J	0.55 J	1.3 J	0.54 U	0.78 U	0.54 U	0.51 U			
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	433	412	377	372	413	404	428			
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	8.18	9.28	8.32	8.58	6.95	8	8.76			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063 D006/MW06							
				063 D006 1.0	063 D006 5.0	063 D006 6.5	063 D006 10.0	063 D006 15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28661-5	460-28661-6	460-28661-7	460-28661-8	460-28661-9			
LABORATORY ID				1	5	6.5	10	15			
TOP OF SAMPLE (ft bgs)				7	3	1.5	-2	-7			
SAMPLE ELEVATION (ft msl)				7/12/2011	7/12/2011	7/12/2011	7/12/2011	7/12/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED							
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.59 UJ	0.66 UJ	0.69 UJ	0.61 UJ	0.57 UJ
CHROMIUM	120000	N/A	N/A	44.5	3850	15.4	19.9	46.5			
NICKEL	23000	1600	205**	10.4	11.3	12.6	8.2	13.8			
THALLIUM	79	5	3	0.33 U	0.36 U	0.38 U	0.34 U	1 J			
VANADIUM	1100	390	N/A	18.6	13	16.6	36.5	86.2			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.58 U	0.62 U	0.64 U	0.56 U	0.55 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	354	229	292	322	334			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	9.1	8.83	7.98	8.09	8.94			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D007							
				063_D007_0.0	063_D007_5.7	063_D007_10.0	063_D007_10.0-D	063_D007_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-5	460-29302-6	460-29302-7	460-29302-8	460-29302-9			
LABORATORY ID				0	5.7	10	10	15			
TOP OF SAMPLE (ft bgs)				8.2	2.5	-1.8	-1.8	-6.8			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED							
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.91 J	1 UJ	0.92 UJ	0.92 UJ	0.88 UJ
CHROMIUM	120000	N/A	N/A	415 J	14.6 J	21.7 J	20.2 J	19 J			
NICKEL	23000	1600	205**	39.8	13.3	12.2	12.4	12.1			
THALLIUM	79	5	3	0.99 U	1.1 U	1 U	1 U	0.97 U			
VANADIUM	1100	390	N/A	61	16.5	21.4	19.8	28.3			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	4.7	0.65 U	0.57 U	0.57 U	0.56 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	409	344	367	389	528			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.72	7.16	8.13	8.13	8			

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STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D008						
				063_D008_0.0	063_D008_5.0	063_D008_10.0	063_D008_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-10	460-29302-11	460-29302-12	460-29302-13			
LABORATORY ID				0	5	10	15			
TOP OF SAMPLE (ft bgs)				8.1	3.1	-1.9	-6.9			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED						
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.88 UJ	1.1 UJ	1 UJ	0.92 UJ
CHROMIUM	120000	N/A	N/A	118 J	10.9 J	35.7 J	33.5			
NICKEL	23000	1600	205**	18.3	10.2	18	19.4			
THALLIUM	79	5	3	0.97 U	1.2 U	1.1 U	1 U			
VANADIUM	1100	390	N/A	47	13.7	46.9	41.9			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.61 J	0.68 U	0.55 U	0.54 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	528	461	467	485			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.1	7.65	8	8.34			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063 D009/MW07						
				063 D009 1.5	063 D009 5.0	063 D009 10.0	063 D009 13.2			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-28661-1	460-28661-2	460-28661-3	460-28661-4			
LABORATORY ID				1.5	5	10	13.2			
TOP OF SAMPLE (ft bgs)				7.1	3.6	-1.4	-4.6			
SAMPLE ELEVATION (ft msl)				7/12/2011	7/12/2011	7/12/2011	7/12/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED						
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.9 J	0.63 UJ	0.62 UJ	0.63 UJ
CHROMIUM	120000	N/A	N/A	7930	23.4	46.5	26.9			
NICKEL	23000	1600	205**	149	12.6	11.2	15.2			
THALLIUM	79	5	3	0.37 U	0.35 U	0.35 U	0.35 U			
VANADIUM	1100	390	N/A	190	22.8	24.7	30.7			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	11.4	0.6 U	0.57 U	0.55 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	334	288	351	362			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	9.43	8.63	8.38	8.4			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D010							
				063_D010_0.0	063_D010_0.5	063_D010_5.1	063_D010_10.0	063_D010_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29233-22	460-29233-23	460-29233-24	460-29233-25	460-29233-26			
LABORATORY ID				0	0.5	5.1	10	15			
TOP OF SAMPLE (ft bgs)				8.3	7.8	3.2	-1.7	-6.7			
SAMPLE ELEVATION (ft msl)				7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED						
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	3.8 J	10.4 J	0.99 UJ	0.94 UJ	0.97 UJ
CHROMIUM	120000	N/A	N/A	244 J	266 J	25.6 J	49.9 J	39.4 J			
NICKEL	23000	1600	205**	210	119	12.8	18.5	12			
THALLIUM	79	5	3	0.92 U	1 U	1.1 U	1 U	1.1 U			
VANADIUM	1100	390	N/A	53.5	59.5	23.6	46.8	22.5			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	2 J	1.5 J	0.58 U	0.55 U	0.55 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	526	515	498	471	501			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.3	8.52	8.28	8.92	8.81			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D011							
				063_D011_0.0	063_D011_7.0	063_D011_11.0	063_D011_11.0-D	063_D011_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29336-10	460-29336-11	460-29336-12	460-29336-13	460-29336-14			
LABORATORY ID				0	7	11	11	15			
TOP OF SAMPLE (ft bgs)				9.7	2.7	-1.3	-1.3	-5.3			
SAMPLE ELEVATION (ft msl)				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX											
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	1 UJ	1 U	0.93 U	0.98 U	0.98 U
CHROMIUM	120000	N/A	N/A	303	12.5	28	33.3	39.1			
NICKEL	23000	1600	205**	29.8	12.9	15.6	17.2	16.5			
THALLIUM	79	5	3	1.1 U	1.1 U	1 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	54	16.3	38.7	42.6	41.4			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	1.4 J	0.62 U	0.56 U	0.57 U	0.56 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	459	450	426	427	429			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	7.67	7.38	8.86	8.99	8.72			

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** SITE SPECIFIC IGW SSL = DEFAULT IMPACT
TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW
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**EXCEEDS MINIMUM STANDARD/SCREENING
CRITERIA**

NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E003							
				063_E003_0.0	063_E003_6.0	063_E003_10.5	063_E003_10.5-D	063_E003_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	Impact to Groundwater Soil Screening (11/13)	460-29233-1	460-29233-2	460-29233-3	460-29233-4	460-29233-5			
LABORATORY ID				0	6	10.5	10.5	15			
TOP OF SAMPLE (ft bgs)				10.3	4.3	-0.2	-0.2	-4.7			
SAMPLE ELEVATION (ft msl)				7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX											
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.9 UJ	0.96 UJ	0.94 UJ	0.93 UJ	0.9 UJ
CHROMIUM	120000	N/A	N/A	28.9 J	19.4 J	15.1 J	14.8 J	17.7 J			
NICKEL	23000	1600	205**	33.8	13.3	13.3	11.8	10.2			
THALLIUM	79	5	3	0.99 U	1.1 U	1 U	1 U	0.98 U			
VANADIUM	1100	390	N/A	51.1	27.9	21.9	23	22.4			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.54 U	0.73 J	0.55 U	0.54 U	0.53 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	518	456	461	462	468			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.03	9.12	9.05	8.89	8.71			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E004							
				063_E004_0.0	063_E004_6.5	063_E004_11.0	063_E004_15.0	063_E004_18.3			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29233-6	460-29233-7	460-29233-8	460-29233-9	460-29233-10			
LABORATORY ID				0	6.5	11	15	18.3			
TOP OF SAMPLE (ft bgs)				13.9	7.4	2.9	-1.1	-4.4			
SAMPLE ELEVATION (ft msl)				7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED							
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.93 UJ	0.9 UJ	1 UJ	0.91 UJ	0.95 UJ
CHROMIUM	120000	N/A	N/A	63.3 J	28.7 J	15.2 J	19 J	9.8 J			
NICKEL	23000	1600	205**	28.3	18.1	11	10.6	6.6 J			
THALLIUM	79	5	3	1 U	0.99 U	1.1 U	1 U	1 U			
VANADIUM	1100	390	N/A	51.3	37.1	24.5	24.6	16.5			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.56 U	0.55 U	0.57 U	0.54 U	0.55 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	497	451	456	481	475			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	7.57	9.03	8.81	8.6	8.08			

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NON-DETECTION EXCEEDS MINIMUM
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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E005							
				063_E005_0.0	063_E005_0.5	063_E005_6.0	063_E005_10.0	063_E005_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29233-11	460-29233-12	460-29233-13	460-29233-14	460-29233-15			
LABORATORY ID				0	0.5	6	10	15			
TOP OF SAMPLE (ft bgs)				9.3	8.8	3.3	-0.7	-5.7			
SAMPLE ELEVATION (ft msl)				7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX											
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	0.94 UJ	0.91 UJ	0.99 UJ	0.97 UJ	0.92 UJ
CHROMIUM	120000	N/A	N/A	302 J	53.5 J	13.5 J	26.2 J	14.3 J			
NICKEL	23000	1600	205**	28.4	7.8 J	10.6	16.2	10.9			
THALLIUM	79	5	3	1 U	1 U	1.1 U	1.1 U	1 U			
VANADIUM	1100	390	N/A	61.3	9 J	21.1	38.4	21.3			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	1.7 J	0.52 U	0.58 U	0.55 U	0.53 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	499	507	455	460	474			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.12	8.52	8.23	8.31	8.7			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E006						
				063_E006_0.0	063_E006_6.0	063_E006_10.0	063_E006_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29233-18	460-29233-19	460-29233-20	460-29233-21			
LABORATORY ID				0	6	10	15			
TOP OF SAMPLE (ft bgs)				8.9	2.9	-1.1	-6.1			
SAMPLE ELEVATION (ft msl)				7/26/2011	7/26/2011	7/26/2011	7/26/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX										
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.87 UJ	1 UJ	0.95 UJ	0.93 UJ
CHROMIUM	120000	N/A	N/A	152 J	12.2 J	27.7 J	28.5 J			
NICKEL	23000	1600	205**	24	10.4	11.4	13.7			
THALLIUM	79	5	3	0.96 U	1.1 U	1 U	1 U			
VANADIUM	1100	390	N/A	45.4	16.2	21.9	32.4			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	1.7 J	0.59 U	0.55 U	0.55 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	351	366	369	505			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.11	7.55	8.05	8.21			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E007						
				063_E007_0.0	063_E007_5.0	063_E007_10.0	063_E007_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29302-1	460-29302-2	460-29302-3	460-29302-4			
LABORATORY ID				0	5	10	15			
TOP OF SAMPLE (ft bgs)				8.1	3.1	-1.9	-6.9			
SAMPLE ELEVATION (ft msl)				7/27/2011	7/27/2011	7/27/2011	7/27/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX										
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.96 J	1.2 UJ	0.96 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	328 J	12.6 J	13 J	21.3 J			
NICKEL	23000	1600	205**	28.2	11.5	11.3	12.9			
THALLIUM	79	5	3	1 U	1.3 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	66.6	14.2	19	29.1			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	4.4	0.69 U	0.56 U	0.56 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	493	407	408	419			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.15	7.36	8.12	8.17			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065 A005								
				065 A005 0.0	065 A005 5.0	065 A005 5.0-D	065 A005 10.0	065 A005 15.0	065 A005 17.5			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-19	460-29456-21	460-29456-21	460-29456-22	460-29456-23	460-29456-24			
LABORATORY ID				0	5	5	10	15	17.5			
TOP OF SAMPLE (ft bgs)				7.7	2.7	2.7	-2.3	-7.3	-9.8			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED								
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	0.97 UJ	1.4 UJ	5.7 UJ	1.1 UJ	0.99 UJ	0.99 UJ
CHROMIUM	120000	N/A	N/A	1000	7060	9090	206	92.1	18			
NICKEL	23000	1600	205**	63.6	14.4	18.5 J	11.6	12.6	10.9			
THALLIUM	79	5	3	1.1 U	1.6 U	6.3 U***	1.2 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	81.9	40.2	52.4 J	32.8	20.9	18.2			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	1.3 J	0.66 U	0.75 J	0.69 U	0.59 U	0.56 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	332	201	213	338	381	481			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.49	10.4	10.3	8.92	8.26	7.99			

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A006								
				065_A006_0.0	065_A006_3.8	065_A006_8.2	065_A006_11.7	065_A006_11.7-D	065_A006_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-13	460-29456-14	460-29456-15	460-29456-16	460-29456-17	460-29456-18			
LABORATORY ID				0	3.8	8.2	11.7	11.7	15			
TOP OF SAMPLE (ft bgs)				7.3	3.5	-0.9	-4.4	-4.4	-7.7			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	9 UJ	5.1 UJ	12.7 UJ	1.1 UJ	1.1 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	4490 J	7640	12400	18.3	21.1	100			
NICKEL	23000	1600	205**	47.2	21.1 J	22.7 J	7.7 J	7.4 J	7.7 J			
THALLIUM	79	5	3	0.99 U	2.8 U	5.6 U***	1.2 U	1.2 U	1.1 U			
VANADIUM	1100	390	N/A	79.6	28.9 J	52.8 J	27.3	29.7	20.8			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	12.6	12.9	4.2	0.62 U	0.65 U	0.61 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	260	224	214	332	337	344			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	11.5	11.3	11.7	7.75	7.73	7.91			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A007								
				065_A007_0.0	065_A007_3.1	065_A007_6.9	065_A007_6.9-D	065_A007_11.0	065_A007_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-7	460-29456-8	460-29456-9	460-29456-10	460-29456-11	460-29456-12			
LABORATORY ID				0	3.1	6.9	6.9	11	15			
TOP OF SAMPLE (ft bgs)				7.4	4.3	0.5	0.5	-3.6	-7.6			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	10.6 UJ	10.5 UJ	9.2 J	10.6 J	3.5 UJ	1 UJ
CHROMIUM				120000	N/A	N/A	5050 J	5990 J	50.9 J	44 J	23.1 J	23.4
NICKEL	23000	1600	205**	50.3	16.2	17.3	19.8	8.8 J	8.8 J			
THALLIUM	79	5	3	1.2 U	1.2 U	1.3 U	1.2 U	3.8 U^	1.1 U			
VANADIUM	1100	390	N/A	75.9	58.6	27.8	42.1	21.1 J	24.4			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	10.1	9.6	0.66 U	0.67 U	2 U	0.6 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	365	282	218	137	454	428			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.43	10.5	9.57	9.65	7.96	8.38			

Notes:

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** SITE SPECIFIC IGW SSL = DEFAULT IMPACT
TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW
STANDARD

^ SAMPLE IS BELOW WATER TABLE
THEREFORE NJDEP IGWSSL DOES NOT
APPLY

N/A = NOT APPLICABLE

**EXCEEDS MINIMUM STANDARD/SCREENING
CRITERIA**

NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A008								
				065_A008_0.0	065_A008_5.0	065_A008_5.0-D	065_A008_7.0	065_A008_10.4	065_A008_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-1	460-29456-2	460-29456-3	460-29456-4	460-29456-5	460-29456-6			
LABORATORY ID				0	5	5	7	10.4	15			
TOP OF SAMPLE (ft bgs)				7.6	2.6	2.6	0.6	-2.8	-7.4			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED						
EXCAVATION STATUS				Metals (mg/kg)								
ANTIMONY				450	31	6	6.1 J	3.2 J	4.4 J	3.1 J	1.4 UJ	1 UJ
CHROMIUM				120000	N/A	N/A	3830	1490 J	1970 J	1510 J	490 J	30.8 J
NICKEL	23000	1600	205**	54	7.7 J	6.9 J	14.3	14.9	9.9			
THALLIUM	79	5	3	1.1 U	1.1 U	1.1 U	1.1 U	1.6 U	1.1 U			
VANADIUM	1100	390	N/A	83.1	16.2	15.2	30	24.1	26.7			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	2.4 J	5.5	6.7	9.5	0.84 U	0.58 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	347	376	355	340	387	450			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	10.4	10.3	10.4	10	8.37	7.94			

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NON-DETECTION EXCEEDS MINIMUM
STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A009							
				065_A009_0.0	065_A009_2.5	065_A009_2.5-D	065_A009_6.0	065_A009_15.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-31	460-29456-32	460-29456-33	460-29456-34	460-29456-35			
LABORATORY ID				0	2.5	2.5	6	15			
TOP OF SAMPLE (ft bgs)				7.5	5	5	1.5	-7.5			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED					
EXCAVATION STATUS											
Metals (mg/kg)											
ANTIMONY				450	31	6	2.4 UJ	1 UJ	1 UJ	6.1 J	0.9 UJ
CHROMIUM	120000	N/A	N/A	2240	73.7	67.3	23.2	95.9			
NICKEL	23000	1600	205**	44.6	10.1	11	11.3	17.7			
THALLIUM	79	5	3	1.1 U	1.1 U	1.1 U	1.1 U	0.99 U			
VANADIUM	1100	390	N/A	110	13.7	16.7	7.9 J	38.5			
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.58 U	0.57 U	0.58 U	0.6 U	0.55 U			
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	478	467	467	410	398			
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	7.7	8.2	8.25	8.01	8.75			

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Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A010						
				065_A010_0.3	065_A010_5.0	065_A010_15.0	065_A010_15.0-D			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-36	460-29456-37	460-29456-38	460-29456-39			
LABORATORY ID				0.3	5	15	15			
TOP OF SAMPLE (ft bgs)				7.2	2.5	-7.5	-7.5			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED					
EXCAVATION STATUS										
Metals (mg/kg)										
ANTIMONY				450	31	6	0.93 UJ	2.6 UJ	0.93 UJ	0.98 UJ
CHROMIUM	120000	N/A	N/A	472	51.1	32.6	34.6			
NICKEL	23000	1600	205**	26.5	26.1	12.3	15.6			
THALLIUM	79	5	3	1 U	2.8 U	1 U	1.1 U			
VANADIUM	1100	390	N/A	45.1	19.3 J	28.8	34.3			
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	1.6 J	0.58 U	0.53 U	0.54 U			
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	378	398	382	390			
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	9.35	8.06	9.16	9.04			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	065_A010SS	065_A011				
SAMPLE ID				065_A015_SED	065_A011_0.0	065_A011_5.0	065_A011_10.0	065_A011_15.0	065_A011_18.0
LABORATORY ID				460-29469-15	460-29355-7	460-29355-8	460-29355-9	460-29355-10	460-29355-11
TOP OF SAMPLE (ft bgs)				0	0	5	10	15	18
SAMPLE ELEVATION (ft msl)				7.5	7.6	2.6	-2.4	-7.4	-10.4
SAMPLE_DATE				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
ABOVE/BELOW GW TABLE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW
MATRIX				SEDIMENT	SOIL	SOIL	SOIL	SOIL	SOIL
EXCAVATION STATUS				EXCAVATED	EXCAVATED	EXCAVATED			
Metals (mg/kg)									
ANTIMONY	450	31	6	1.2 UJ	3 J	3.1 J	1.1 UJ	0.97 UJ	0.91 UJ
CHROMIUM	120000	N/A	N/A	400	647	31.2	13.7 J	14.1 J	20.9 J
NICKEL	23000	1600	205**	22.8	49.4	14.4	12.1	9.3	16
THALLIUM	79	5	3	1.4 U	0.99 U	1.1 U	1.2 U	1.1 U	1 U
VANADIUM	1100	390	N/A	27.8	79	23.4	20.7	21.2	32.6
Miscellaneous Parameters (mg/kg)									
HEXAVALENT CHROMIUM	20	N/A	N/A	3.8	4.3	0.58 U	0.59 U	0.58 U	0.55 U
Miscellaneous Parameters (mv)									
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	207	469	430	449	428	430
Miscellaneous Parameters (s.u.)									
PH	N/A	N/A	N/A	7.2	8.3	8.26	7.29	8.32	8.97

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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA
 NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
Historical Soil Samples
Remedial Investigation Borings (2011-2012)
Complete Summary Laboratory Analytical Results including Excavated Exceedances
PPG Site 63, 1 Burma Road
Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A012								
				065_A012_0.0	065_A012_5.0	065_A012_10.0	065_A012_10.0-D	065_A012_15.0	065_A012_18.5			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29456-25	460-29456-26	460-29456-27	460-29456-28	460-29456-29	460-29456-30			
LABORATORY ID				0	5	10	10	15	18.5			
TOP OF SAMPLE (ft bgs)				7.7	2.7	-2.3	-2.3	-7.3	-10.8			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED								
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	1 UJ	0.99 UJ	1.7 UJ	1.7 UJ	0.99 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	549	21.8	243 J	121 J	50.1	14.2			
NICKEL	23000	1600	205**	43.3	13.1	24.7	23.1	7.2 J	13.7			
THALLIUM	79	5	3	1.1 U	1.1 U	1.8 U	1.9 U	1.1 U	1.1 U			
VANADIUM	1100	390	N/A	54.7	28.3	33.2	33.1	19.7	20.5			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	8.9	0.55 U	0.99 U	1 U	0.58 U	0.59 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	492	449	452	442	433	428			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	7.5	8.32	7.79	7.83	7.84	8.49			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A013								
				065_A013_0.0	065_A013_0.5	065_A013_5.0	065_A013_10.0	065_A013_15.5	065_A013_17.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29355-1	460-29355-2	460-29355-3	460-29355-4	460-29355-5	460-29355-6			
LABORATORY ID				0	0.5	5	10	15.5	17			
TOP OF SAMPLE (ft bgs)				7.7	7.2	1.7	-3.3	-8.8	-9.3			
SAMPLE ELEVATION (ft msl)				7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011			
SAMPLE DATE				ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED							
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	9 UJ	7.3 J	1.9 J	4.3 J	3.2 UJ	0.96 UJ
CHROMIUM	120000	N/A	N/A	2330	749	22.3	11.3	13.3 J	17.1			
NICKEL	23000	1600	205**	96.9	28.8	12.5	19.1	13.9 J	13.2			
THALLIUM	79	5	3	0.99 U	1 U	1.1 U	1.4 U	3.5 UJ	1.1 U			
VANADIUM	1100	390	N/A	135	84.2	14.4	14.5	18.4 J	24.8			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	7.6	7.8	0.59 U	0.72 U	2 U	0.57 U			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	555	573	479	411	374	404			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.45	8.28	8.3	8.01	7.76	7.03			

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Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A014										
				065_A014_0.0	065_A014_0.5	065_A014_1.5	065_A014_5.5	065_A014_10.0	065_A014_10.0-D	065_A014_15.0	065_A014_16.7			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29469-1	460-29469-2	460-29469-3	460-29469-4	460-29469-5	460-29469-6	460-29469-7	460-29469-8			
LABORATORY ID				0	0.5	1.5	5.5	10	10	15	16.7			
TOP OF SAMPLE (ft bgs)				6.9	6.4	5.4	4.4	-3.1	-3.1	-8.1	-9.8			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	ABOVE	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX				EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED							
EXCAVATION STATUS				Metals (mg/kg)										
ANTIMONY				450	31	6	1.6 J	2 J	1.8 J	1.3 J	6 J	5.9 J	2.4 UJ	1.1 UJ
CHROMIUM				120000	N/A	N/A	409	206	34.6	747	22	25	221	3.6
NICKEL	23000	1600	205**	43.3	30.6	20.1	15.2	18.6	15.1	26.7	1.5 J			
THALLIUM	79	5	3	0.98 U	1 U	1 U	1.2 U	1.5 U	1.5 U	2.6 U	1.2 U			
VANADIUM	1100	390	N/A	63.9	47.9	28.6	14.6	17.4	15.7	35.2	7.6 J			
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	2.8 J	0.96 J	0.54 UJ	0.66 J	0.76 UJ	0.74 UJ	1.3 UJ	0.64 UJ			
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	413	451	391	375	348	351	347	368			
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	7.98	8.2	9.59	8.18	7.75	7.71	7.71	7.2			

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NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4F
 Historical Soil Samples
 Remedial Investigation Borings (2011-2012)
 Complete Summary Laboratory Analytical Results including Excavated Exceedances
 PPG Site 63, 1 Burma Road
 Jersey City, New Jersey

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A015								
				065_A015_0.0	065_A015_5.0	065_A015_10.3	065_A015_10.3-D	065_A015_15.0	065_A015_19.0			
SAMPLE ID	Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	460-29469-9	460-29469-10	460-29469-11	460-29469-12	460-29469-13	460-29469-14			
LABORATORY ID				0	5	10.3	10.3	15	19			
TOP OF SAMPLE (ft bgs)				6.6	1.6	-3.7	-3.7	-8.4	-12.4			
SAMPLE ELEVATION (ft msl)				8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011			
SAMPLE DATE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW			
ABOVE/BELOW GW TABLE				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
MATRIX												
EXCAVATION STATUS												
Metals (mg/kg)												
ANTIMONY				450	31	6	1.7 J	1 UJ	1.9 J	2 J	2.8 UJ	1 UJ
CHROMIUM	120000	N/A	N/A	132	91.4	17.4 J	34.8 J	25.1 J	15.4			
NICKEL	23000	1600	205**	33.4	13.8	11.8 J	16.4	18.3 J	13.9			
THALLIUM	79	5	3	1 U	1.2 U	1.8 U	1.8 U	3.1 U^	1.1 U			
VANADIUM	1100	390	N/A	44.6	13.6	13.7 J	18.6	29.5 J	25.6			
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.51 UJ	3.2 J	0.91 UJ	0.95 UJ	1.6 UJ	0.61 UJ			
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	363	439	391	371	457	355			
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.67	8.03	7.63	7.6	7.67	7.76			

Notes:

U = NON DETECT

J = ESTIMATED

ft msl = FEET MEAN SEA LEVEL

ft bgs = FEET BELOW GROUND SURFACE

mg/kg = MILLIGRAMS PER KILOGRAM

mv = MILLIVOLTS

s.u. = STANDARD UNITS

** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

***COMPLIANCE AVERAGED BELOW STANDARD

^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

N/A = NOT APPLICABLE

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 4G
Historical Soil Samples
Site Investigation Borings (2011) Complete Laboratory Analytical Summary Table
PPG Site 63
1 Burma Road Jersey City, NJ
2011- Sampled by TRC

Sample Location:				SB 4		SB 5 ^A		SB 6		SB 7		SB 8	
Sample Depth (ft bgs):	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	5.0-5.5	7.5-8.0	5.0-5.5	10.0-10.5	5.0-5.5	7.5-8.0	2.5-3.0	10.5-11.0	6.0-6.5	8.5-9.0
Sample Elevation (ft msl):				3-3.5	0.5-1	3.1-3.6	-1.9(-1.4)	2-2.5	-0.5-0	4.5-5	-3.5(-3)	1.6-2.1	-0.9(-0.4)
Client Sample ID:				SB4/5.0-5.5	SB4/7.5-8.0	SB5/5.0-5.5	SB5/10.0-10.5	SB6/5.0-5.5	SB6/7.5-8.0	SB07/2.5-3.0	SB07/10.5-11.0	SB-8/6.0-6.5	SB-8/8.5-9.0
Lab Sample ID:				JA81086-5A	JA81086-6A	JA81086-1A	JA81086-2A	JA80694-1A	JA80694-2A	JA80694-10A	JA80694-11A	JA80919-7A	JA80919-8A
Date Sampled:				07/15/11	07/15/11	07/15/11	07/15/11	07/12/11	07/12/11	07/12/11	07/12/11	07/14/11	07/14/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:	EXCAVATED		EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED	EXCAVATED			
Antimony (mg/kg)	450	31	6	<2.3	<4.9	<2.1	<7.7***	<2.4	<7.1***	3	<5.4	<2.4	<4.9
Chromium (mg/kg)	120,000	N/A	N/A	156	21.1	39.9	16.7	578	54.3	249	46.3	23.7	46.6
Nickel (mg/kg)	23,000	1,600	205**	19.7	16.6	15.4	<15	14.8	25.4	21.1	21.1	14.1	25.1
Thallium (mg/kg)	79	5	3	<1.2	<2.5	<1.1	<3.8***	<1.2	<3.6***	<1.3	<2.7	<1.2	<2.5
Vanadium (mg/kg)	1,100	390	N/A	30	28.6	44.5	20.5	24.9	35.9	33.7	32.2	19	37.2
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<0.45	<9.9	<0.43	76	23.3	3.6	0.65	1.5	<0.48	2.2

NOTES:

< - The analyte was not detected at the stated reporting limit.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***All exceedances are below the water table, the IGWSSL does not apply to these samples; IGWSSL= DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

N/A = Not Applicable

^AFor SB5, SB11, and SB13, additional chrome data reported in Tables 2J and 4J.

Result exceeded criteria

Table 4G
Historical Soil Samples
Site Investigation Borings (2011) Complete Laboratory Analytical Summary Table
PPG Site 63
1 Burma Road Jersey City, NJ
2011- Sampled by TRC

Sample Location:				SB 10		SB 11^		SB 12		SB 13^	
Sample Depth (ft bgs):	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	9.0-9.5	10.0-10.5	2.5-3.0	7.5-8.0	12.0-12.5	13.0-13.5	2.5-3.0	8.0-8.5
Sample Elevation (ft msl):				-1.8-(-1.3)	-2.8-(-2.3)	5-5.5	0-0.5	-3.6-(-3.1)	-4.6-(-4.1)	5.4-5.9	-0.1-0.4
Client Sample ID:				SB10/9.0-9.5	SB10/10.0-10.5	SB11/2.5-3.0	SB11/7.5-8.0	SB12/12.0-12.5	SB12/13.0-13.5	SB13/2.5-3.0	SB13/8.0-8.5
Lab Sample ID:				JA80783-5	JA80783-6	JA80694-7A	JA80694-8A	JA81086-8A	JA81086-9A	JA80694-4A	JA80694-5A
Date Sampled:				07/13/11	07/13/11	07/12/11	07/12/11	07/15/11	07/15/11	07/12/11	07/12/11
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Excavation Status:			EXCAVATED	EXCAVATED			EXCAVATED	EXCAVATED			
Antimony (mg/kg)	450	31	6	<2.5	<5.6	145	<6.0	<2.4	<5.0	5.6	<7.3***
Chromium (mg/kg)	120,000	N/A	N/A	14.5	33.9	8780	31.9	17.8	32.1	4910	28.1
Nickel (mg/kg)	23,000	1,600	205**	13.1	13.9	13.3	16.9	16	25.9	15.9	<15
Thallium (mg/kg)	79	5	3	<1.3	<2.8	<1.3	<3.0	<1.2	<2.5	<1.4	<3.6***
Vanadium (mg/kg)	1,100	390	N/A	21.1	22.2	46.7	25.7	19.8	37.6	28	24.2
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<0.49	1.3	95.1	64.6	<0.50	<10	1.1	204

NOTES:

< - The analyte was not detected at the stated reporting limit.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***All exceedances are below the water table, the IGWSSL does not apply to these samples; IGWSSL= DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

N/A = Not Applicable

^For SB5, SB11, and SB13, additional chrome data reported in Tables 2J and 4J.

Result exceeded criteria

Table 4G
Historical Soil Samples
Site Investigation Borings (2011) Complete Laboratory Analytical Summary Table
PPG Site 63
1 Burma Road Jersey City, NJ
2011- Sampled by TRC

Sample Location:				TW 1		TW 2			TW 3			TW 4	
Sample Depth (ft bgs):	NJ	NJ	NJ Default	5.0-5.5	10.0-10.5	9.5-10.0	17.0-17.5	22.0-22.5	2.0-2.5	10.5-11.0	12.0-12.5	9.0-9.5	14.0-14.5
Sample Elevation (ft msl):	Non-Residential	Residential	Impact to	2.8-3.3	-2.2(-1.7)	-1.4(-0.9)	-8.9(-8.4)	-13.9(-13.4)	7-7.5	-1.5(-1)	-3(-2.5)	2.2-2.7	-2.8(-2.3)
Client Sample ID:	Direct Contact	Direct Contact	Groundwater	TW1/5.0-5.5	TW1/10.0-10.5	TW2/9.5-10.0	TW2/17.0-17.5	TW2/22.0-22.5	TW3/2.0-2.5	TW3/10.5-11.0	TW3/12.0-12.5	TW4/9.0-9.5	TW4/14.0-14.5
Lab Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	JA80919-2A	JA80919-3A	JA80783-8A	JA80783-9A	JA80783-10A	JA80783-1A	JA80783-2A	JA80783-3A	JA80919-10A	JA80919-11A
Date Sampled:	7:26D 5/12)	7:26D 5/12)	(11/13)	07/14/11	07/14/11	07/13/11	07/13/11	07/13/11	07/13/11	07/13/11	07/13/11	07/14/11	07/14/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED					EXCAVATED				
Antimony (mg/kg)	450	31	6	<2.4	<7.3***	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3	<2.2	<2.5
Chromium (mg/kg)	120,000	N/A	N/A	121	21.4	24.3	16.6	27.9	66.1	28.6	26.9	21.2	21.8
Nickel (mg/kg)	23,000	1,600	205**	15.5	<15	10	14.4	14.5	17.3	18.8	12.4	12.4	25
Thallium (mg/kg)	79	5	3	<1.2	<3.6***	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2
Vanadium (mg/kg)	1,100	390	N/A	28.4	24.5	28.3	26.2	30.3	82.9	39.6	28.2	31.6	33.7
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<0.49	8.3	<0.46	<0.47	<0.47	<0.43	<0.47	<0.45	0.5	<0.48

NOTES:

< - The analyte was not detected at the stated reporting limit.
**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.
***All exceedances are below the water table, the IGWSSL does not apply to these samples;
IGWSSL= DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
N/A = Not Applicable
^For SB5, SB11, and SB13, additional chrome data reported in Tables 2J and 4J.

Result exceeded criteria

Table 4G
Historical Soil Samples
Site Investigation Borings (2011) Complete Laboratory Analytical Summary Table
PPG Site 63
1 Burma Road Jersey City, NJ
2011- Sampled by TRC

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	MW 1		MW 2		MW 5/063_D003	
				4	8	1	12	1.5	11
Sample Depth (ft bgs):				3.1	-0.9	7.3	-3.7	7.6	-1.9
Sample Elevation (ft msl):									
Client Sample ID:				MW-1/4	MW-1/8	MW-2/1	MW-2/12	MW-5/1.5	MW-5/11
Lab Sample ID:				JA81094-1A	JA81094-2A	JA80569-1	JA80569-2	JA80782-1A	JA80782-2A
Date Sampled:				07/15/11	07/15/11	07/11/11	07/11/11	07/13/11	07/13/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED		EXCAVATED		EXCAVATED	
Antimony (mg/kg)	450	31	6	29.6	<2.3	8.4	<2.5	<2.3	<2.3
Chromium (mg/kg)	120,000	N/A	N/A	4660	15.6	3370	30.4	73.7	29.7
Nickel (mg/kg)	23,000	1,600	205**	54.3	14.5	158	16.2	20.5	15
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	40.6	22.3	162	40.5	27.3	34.1
Hexavalent Chromium (mg/kg)	20	N/A	N/A	72	<0.48	0.49	<0.50	<0.48	1.1

NOTES:

< - The analyte was not detected at the stated reporting limit.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***All exceedances are below the water table, the IGWSSL does not apply to these samples; IGWSSL= DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

N/A = Not Applicable

^For SB5, SB11, and SB13, additional chrome data reported in Tables 2J and 4J.

Result exceeded criteria

TABLE 4H
Historical Soil Samples
Site Investigation/Interim Remedial Action (1998-2000)
Complete Analytical Laboratory Results including Excavated Samples
TEST BORING SOIL SAMPLE RESULTS GROUP 12
PPG Site 63
1 Burma Road, Jersey City, New Jersey
Sampled by ICF Kaiser/IT Corporation

SAMPLE ID	Ground Surface Elevation (ft msl)	SAMPLE DEPTH (ft bgs)	SAMPLE ELEVATION (ft msl)	SAMPLE LOCATION	DATE	Excavation Status 2015	Chromium, Hexavalent	Chromium, Total
630801001	13.3	0.50-2.50	10.8-12.8	PPG12-B01	9/23/98	Excavated	1,340	4,820 J
630801002	"	2.50-4.50	8.8-10.8	"	9/23/98	Excavated	5,030	5,210 J
630801003	"	4.50-6.50	6.8-8.8	"	9/23/98	Excavated	2,370	6,500 J
630801004	"	6.50-6.80	6.5-6.8	"	9/23/98	Excavated	628	13,700 J
630801005	"	7.50-7.70	5.6-5.8	"	9/23/98	Excavated	1,530	16,300 J
630801006	"	8.50-10.50	2.8-4.8	"	9/23/98	Excavated	595	1,910 J
630802001	13.3	0.50-2.50	10.8-12.8	PPG12-B02	9/23/98	Excavated	3,120	6,710 J
630802002	"	2.50-4.50	8.8-10.8	"	9/23/98	Excavated	3,940	7,770 J
630802003	"	6.00-6.50	6.8-7.3	"	9/23/98	Excavated	1,410	10,900 J
630802004	"	6.50-7.00	6.3-6.8	"	9/23/98	Excavated	458	3,740 J
630803001	13.3	2.50-3.40	9.9-10.8	PPG12-B03	9/23/98	Excavated	3,120	6,100 J
630803101	"	2.50-3.40	9.9-10.8	"	9/23/98	Excavated	2,660	5,670 J
630803002	"	3.40-4.50	8.8-9.9	"	9/23/98	Excavated	7,420	20,200 J
630803003	"	4.50-6.00	7.3-8.8	"	9/23/98	Excavated	4,350	7,220 J
630803004	"	7.50-7.80	5.5-5.8	"	9/23/98	Excavated	1,560	7,250 J
630803005	"	10.50-11.00	2.3-2.8	"	9/23/98	Excavated	6.1 U	192 J
630804001	13.1	0.50-2.50	10.6-12.6	PPG12-B04	9/22/98	Excavated	9,630 J	12,400 J
630804002	"	2.50-4.50	8.6-10.6	"	9/22/98	Excavated	13,600 J	14,800 J
630804003	"	4.50-6.50	6.6-8.6	"	9/22/98	Excavated	8,530 J	12,400 J
630804004	"	8.50-10.50	2.6-4.6	"	9/22/98	Excavated	19 J	27 J
630805001	13.0	0.50-2.50	10.5-12.5	PPG12-B05	9/24/98	Excavated	786 J	3,680
630805002	"	4.50-6.50	6.5-8.5	"	9/24/98	Excavated	2,790 J	12,900
630805003	"	6.50-7.00	6-6.5	"	9/24/98	Excavated	286 J	9,070
630805004	"	7.50-8.00	5-5.5	"	9/24/98	Excavated	7.9 JU	23,500
630805005	"	8.50-10.50	2.5-4.5	"	9/24/98	Excavated	6.5 JU	24,800
630805006	"	10.50-11.50	1.5-2.5	"	9/24/98	Excavated	19 J	5,850
630806001	13.1	0.50-2.50	10.6-12.6	PPG12-B06	9/22/98	Excavated	9.3 J	1,850 J
630806002	"	2.50-4.50	8.6-10.5	"	9/22/98	Excavated	437 J	4,370 J
630806004	"	5.10-6.50	6.6-8	"	9/22/98	Excavated	54J	16,600 J
630806005	"	6.50-8.50	4.6-6.6	"	9/22/98	Excavated	12 J	5,060 J
630806006	"	8.50-10.50	2.6-4.6	"	9/22/98	Excavated	7.2 UJ	80 J
630807001	12.9	0.50-2.50	10.4-12.4	PPG12-B07	9/21/98	Excavated	6.4 U	2,730 J
630807002	"	2.50-4.50	8.4-10.4	"	9/21/98	Excavated	1880	5,960 J
630807003	"	4.50-5.10	7.8-8.4	"	9/21/98	Excavated	17	5,270 J
630807004	"	5.10-6.50	6.4-7.8	"	9/21/98	Excavated	36	2,420 J
630807005	"	6.50-8.50	4.4-6.4	"	9/21/98	Excavated	10	3,180 J
630807006	"	8.50-8.80	4.1-4.4	"	9/21/98	Excavated	5.5 U	150 J
630807007	"	8.80-10.50	2.4-4.1	"	9/21/98	Excavated	5.7 U	55 J
630807101	"	0.50-2.50	10.4-12.4	"	9/21/98	Excavated	6.4 U	4,230 J
630808001	8.9	1.00-1.50	7.4-7.9	PPG12-B08	9/24/98	Excavated	6J	2,170
630808002	"	2.00-4.00	4.9-6.9	"	9/24/98	Excavated	6.7 J	8,170
630808003	"	4.00-4.50	4.4-4.9	"	9/24/98	Excavated	15 J	667
630809001	9.0	0.00-1.00	8-9	PPG12-B09	9/24/98	Excavated	5.8 UJ	126
630809002	"	1.00-2.00	7-8	"	9/24/98	Excavated	7.8 UJ	52
630809003	"	2.00-3.00	6-7	"	9/24/98	Excavated	5.8 UJ	32
630809004	"	3.00-5.00	4-6	"	9/24/98	Excavated	5.6 UJ	16
630809104	"	3.00-5.00	4-6	"	9/24/98	Excavated	5.9 UJ	14
630811001	12.8	5.00-6.00	6.8-7.8	PPG12-B11	1/7/1999	Excavated	0.64 J	6,490
630811002	"	6.00-7.00	5.8-6.8	"	1/7/1999	Excavated	0.43 UJ	2,060
630811003	"	7.00-8.00	4.8-5.8	"	1/7/1999	Excavated	5.6 J	4,330
630811004	"	8.00-9.00	3.8-4.8	"	1/7/1999	Excavated	40 J	12,800
630811005	"	9.00-10.00	2.8-3.8	"	1/7/1999	Excavated	14 J	1,490
630811006	"	14.00-14.20	-1.4(-1.2)	"	1/7/1999	Excavated	1.1 J	552
630812001	9.5	0.50-1.50	8-9	PPG12-B12	1/11/99	Excavated	0.75 J	797
630812002	"	2.00-3.10	6.4-7.5	"	1/11/99	Excavated	0.42 U	685
630812003	9.5	4.00-5.00	4.5-5.5	PPG12-B12	1/11/99	Excavated	0.68 J	194
630812004	"	6.00-7.10	2.4-3.5	"	1/11/99	Excavated	0.79 J	1,780
630812104	"	6.00-7.10	2.4-3.5	"	1/11/99	Excavated	0.39 U	464
630812005	"	8.00-8.90	0.6-1.5	"	1/11/99	Excavated	0.42 U	299
630812006	"	10.00-10.40	-0.9(-0.5)	"	1/11/99	Excavated	0.5 U	2,030
630812007	"	14.00-14.90	-5.4(-4.5)	"	1/11/99	Excavated	0.84 J	39
630813001	10.0	0.50-1.50	8.5-9.5	PPG12-B13	1/8/99	Excavated	0.58 J	1,150
630813002	"	2.00-2.70	7.3-8	"	1/8/99	Excavated	9.2 J	1,320
630813003	"	2.70-4.00	6-7.3	"	1/8/99	Excavated	1 J	65
630813004	"	6.00-7.00	3-4	"	1/8/99	Excavated	0.44 UJ	34
630813005	"	8.00-8.50	1.5-2	"	1/8/99	Excavated	0.44 UJ	16
630814001	13.6	5.00-6.00	7.6-8.6	PPG12-B14	1/6/99	Excavated	4,430 J	9,330
630814002	"	6.00-6.50	7.1-7.6	"	1/6/99	Excavated	4,160 J	8,510
630814003	"	6.50-7.00	6.6-7.1	"	1/6/99	Excavated	1,380 J	13,400
630814004	"	8.00-8.70	4.9-5.6	"	1/6/99	Excavated	788 J	4,520
630814005	"	11.00-12.00	1.6-2.6	"	1/6/99	Excavated	1.3 J	54

TABLE 4H
Historical Soil Samples
Site Investigation/Interim Remedial Action (1998-2000)
Complete Analytical Laboratory Results including Excavated Samples
TEST BORING SOIL SAMPLE RESULTS GROUP 12
PPG Site 63
1 Burma Road, Jersey City, New Jersey
Sampled by ICF Kaiser/IT Corporation

SAMPLE ID	Ground Surface Elevation (ft msl)	SAMPLE DEPTH (ft bgs)	SAMPLE ELEVATION (ft msl)	SAMPLE LOCATION	DATE	Excavation Status 2015	Chromium, Hexavalent	Chromium, Total
630815000	13.4	0.00-0.00	13.4-13.4	PPG12-B15	1/6/99	Excavated	0.43 UJ	77
630815001	"	4.50-5.00	8.4-8.9	"	1/6/99	Excavated	8,520 J	11,600
630815002	"	5.00-6.00	7.4-8.4	"	1/6/99	Excavated	1,940 J	16,200
630815003	"	6.00-7.00	6.4-7.4	"	1/6/99	Excavated	1,260 J	14,800
630815004	"	7.00-8.00	5.4-6.4	"	1/6/99	Excavated	66 J	1,700
630815005	"	8.00-8.50	4.9-5.4	"	1/6/99	Excavated	0.83 J	196
630815101	"	4.50-5.00	8.4-8.9	"	1/6/99	Excavated	8,060 J	11,800
630816101	13.9	4.00-5.00-dup	8.9-9.9	PPG12-B16	1/7/99	Excavated	2,740 J	5,570
630816001	"	4.00-5.00	8.9-9.9	"	1/7/99	Excavated	3,000 J	5,560
630816002	"	6.00-6.90	7-7.9	"	1/7/99	Excavated	3,690 J	7,770
630816003	"	7.10-7.60	6.3-6.8	"	1/7/99	Excavated	1,190 J	3,400
630816004	"	7.60-9.50	4.4-6.3	"	1/7/99	Excavated	3,950 J	6,650
630816005	"	10.00-10.30	3.6-3.9	"	1/7/99	Excavated	1,830 J	11,300
630817001	13.2	4.00-4.70	8.5-9.2	PPG12-B17	1/7/99	Excavated	134 J	3,890
630817002	"	6.00-6.50	6.7-7.2	"	1/7/99	Excavated	0.47 UJ	6,140
630817003	"	6.50-8.00	5.2-6.8	"	1/7/99	Excavated	4.6 J	2,170
630817004	"	8.00-8.70	4.5-5.2	"	1/7/99	Excavated	0.4 UJ	130
630817005	"	10.00-10.20	3-3.2	"	1/7/99	Excavated	0.39 UJ	38
630817006	"	12.00-12.00*	1.2*	"	1/7/99	Excavated	1.6 J	152
630818001	12.9	5.00-6.00	6.9-7.9	PPG12-B18	1/8/99	Excavated	55 J	5,870
630818002	"	6.00-6.30	6.6-6.9	"	1/8/99	Excavated	31 J	1,930
630818003	"	6.30-7.30	5.6-6.6	"	1/8/99	Excavated	1.2 J	1,540
630818004	"	8.00-9.00	3.9-4.9	"	1/8/99	Excavated	0.82 J	47
630818102	"	6.00-6.30	6.6-6.9	"	1/8/99	Excavated	31 J	1,870
630819001	13.2	4.00-4.50	8.7-9.2	PPG12-B19	1/6/99	Excavated	1,680 J	3,890
630819002	"	5.00-6.00	7.2-8.2	"	1/6/99	Excavated	467 J	19,800
630819003	"	6.50-7.00	6.2-6.7	"	1/6/99	Excavated	8.8 J	5,920
630819004	"	7.00-8.00	5.2-6.2	"	1/6/99	Excavated	2.4 J	2,740
630819005	"	8.00-9.50	3.7-5.2	"	1/6/99	Excavated	1.5 J	112
630820001	12.6	5.00-6.00	6.6-7.6	PPG12-B20	1/6/99	Excavated	2,220 J	6,980
630820002	"	6.00-6.50	6.1-6.6	"	1/6/99	Excavated	3,260 J	10,900
630821001	13.2	5.00-6.00	7.2-8.2	PPG12-B21	1/11/99	Excavated	1,500	6,580
630821002	"	6.00-7.50	5.7-7.2	"	1/11/99	Excavated	2,160	4,910
630821003	"	7.50-8.00	5.2-5.7	"	1/11/99	Excavated	184	1,810
630821004	"	8.00-9.00	4.2-5.2	"	1/11/99	Excavated	594	3,280
630821005	"	10.00-10.40	2.8-3.2	"	1/11/99	Excavated	0.99 J	45
630821006	"	12.00-12.70	0.5-1.2	"	1/11/99	Excavated	0.69 U	57

=exceedance of Hexavalent Chromium Cleanup Criteria

All units are mg/kg unless noted otherwise; mg/kg = milligrams/kilogram

ft msl = feet mean sea level

ft bgs = feet below ground surface

J = estimated value

U = analyzed but not detected

* Sample Depth typo in original report, exact sample interval unknown.

Table 41
Site Investigation/Interim Remedial Action (1998-2000)
Complete Analytical Laboratory Results including Excavated Exceedances
SOIL SAMPLING RESULTS GROUP 12
PPG Site 63
1 Burma Road, Jersey City, New Jersey
Sampled by ICF Kaiser/IT Corporation

Sample Number	Lab ID	Sample Location	Ground Surface Elevation (ft msl)	Sample Depth (ft bgs)	Sample Elevation (ft msl)	Date Collected	Chromium, Hexavalent (mg/kg)	Chromium, Total (mg/kg)	Nickel (mg/kg)	Vanadium (mg/kg)	Excavation Status 2015
0650H01001	E50592-1	PPG12-H01	8.1	0-0.5	7.6-8.1	6/1/1999	88.8 J	7730	46.7	57.6	Excavated
0650H01101	E50592-2	PPG12-H01	8.1	0-0.5	7.6-8.1	6/1/1999	290 J	7870	22.7	43.1	Excavated
0650H02001	E50592-3	PPG12-H02	7.9	0-0.5	7.4-7.9	6/1/1999	3 UJ	2160	49	136	Excavated
0650H03001	E50592-4	PPG12-H03	8.3	0-0.5	7.8-8.3	6/1/1999	194 J	5890	30.7	52.3	Excavated
0650H04001	E50592-5	PPG12-H04	7.6	0-0.5	7.1-7.6	6/1/1999	339 J	2230	24.9	40.5	Excavated
0650H05001	E50592-6	PPG12-H05	8.4	0-0.5	7.9-8.4	6/1/1999	89.2 J	778	61.4	118	Excavated
0650H06001	E50592-7	PPG12-H06	8.6	0-0.2	8.4-8.6	6/1/1999	11.4 J	5170	70.3	111	Excavated
0650H07001	E50592-9	PPG12-H07	6.2	0-0.8	5.4-6.2	6/2/1999	4.5 J	1380	27.8	49.8	Excavated
0650H08001	E50592-10	PPG12-H08	10.9	0-1.1	9.8-10.9	6/3/1999	8.3 J	680	21.9	48.3	Excavated
0650H09001	E50592-11	PPG12-H09	10.9	0-0.2	10.7-10.9	6/3/1999	11.9 J	293	22.6	51.2	Excavated
0650H10001	E51014-1	PPG12-H10	7.1	0-0.5	6.6-7.1	6/8/1999	38.9 J	2770	9.7 J	9.5 J	Excavated
0650H11001	E51014-2	PPG12-H11	10.6	0-0.2	10.4-10.6	6/8/1999	2.6 J	2380	222	244	Excavated
0650H12001	E51014-3	PPG12-H12	7.3	0-0.5	6.8-7.3	6/8/1999	543 J	5940	129	224	Excavated
0650H13001	E50592-12	PPG12-H13	8.5	0-0.2	8.3-8.5	6/7/1999	1.9 J	14000	106	207	Excavated
0650H14001	E50592-13	PPG12-H14	7.5	0-0.5	7-7.5	6/7/1999	8100 J	8140	226	355	Excavated
0650H15001	E51014-4	PPG12-H15	8.1	0-0.2	7.9-8.1	6/9/1999	3.5 U	16600	33.2	196	Excavated
0650H16001	E51014-5	PPG12-H16	8.5	0-0.5	8-8.5	6/9/1999	65	7790	122	226	Excavated
0650H17001	E51758-1	PPG12-H17	8.7	0-0.5	8.2-8.7	6/24/1999	3 UJ	7650	50.4	292	Excavated
0650H18001	E51758-2	PPG12-H18	8.8	0-0.5	8.3-8.8	6/24/1999	84.6 J	7640	28.4	98.6	Excavated
0650H19001	E51758-3	PPG12-H19	8.4	0-0.5	7.9-8.4	6/24/1999	208 J	5880	146	232	Excavated

NOTE:

- =exceedance of 20 mg/kg Hexavalent Chromium Cleanup Criteria
- = exceedance of site-specific IGWSSL of 205 mg/kg; IGWSSL = Default Impact To Groundwater Soil Screening Level
- = exceedance of 390 mg/kg Residential Direct Contact Soil Remediation Standard

All concentrations are in milligrams per kilogram unless noted otherwise.

mg/kg = milligrams/kilogram

ft bgs = feet below ground surface

ft msl = feet mean sea level

U = Analyzed but not detected above the Laboratory Reporting Limit

J = Estimated value

Table 4J
 Site Investigation Borings (2011 & 2016)
 Complete Laboratory Analytical Summary Table
 PPG Site 63
 1 Burma Road
 Jersey City, NJ
 Sampled by TRC and CB&I

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Default Impact to Groundwater Soil Screening (11/13)	ED012		ED012-A	SB 11	SB11-A				
Sample Depth (ft bgs):				6-6.5	6-6.5	7.8-8.3	7.5-8.0	8.9-9.4	9.4-9.9	9.9-10.4		
Sample Elevation (ft msl):				1.7-2.2	1.7-2.2	0.7-1.2	0-0.5	-0.4 - 0.1	-0.9 - (-0.4)	-1.4 - (-0.9)		
Client Sample ID:				ED012 6-6.5	ED012 6-6.5	ED012-A 7.8-8.3	SB11/7.5-8.0	SB11-A 8.9-9.4	SB11-A 9.4-9.9	SB11-A 9.9-10.4		
Lab Sample ID:				JB44447-48	JB44447-48R	JC16626-1RA	JA80694-8A	JC16626-4RA	JC16626-5A	JC16626-6A		
Date Sampled:				8/7/2013	8/7/2013	3/18/2016	07/12/11	3/18/2016	3/18/2016	3/18/2016		
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Excavation Status:				EXCAVATED	EXCAVATED		EXCAVATED					

Metals Analysis

Chromium (mg/kg)	120,000	-	-	1620	-	15.4 / 48.6	31.9	19.8 / 29.6	27.7	19.1
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General Chemistry

Chromium, Hexavalent (mg/kg) ^C	20	-	-	46.6 NJ-	19.5 NJ-	0.7	64.6	27.7 ^E	-	-
Chromium, Hexavalent (mg/kg) ^C	20	-	-	-	-	0.48	-	1.7	-	-
Chromium, Hexavalent (mg/kg) ^D	20	-	-	-	-	0.86	-	<1.3	-	-
pH (su)	-	-	-	9	-	9.08	-	6.94	-	-
Redox Potential Vs H2 (mv)	-	-	-	148	-	310	-	296	-	-
Solids, Percent (%)	-	-	-	85.4	-	90.8	-	32.1	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.

- N -The matrix spike sample recovery in the associated QC sample is not within QC limits.
- R - The reported result is rejected.
- J- The result is estimated and may be biased low.

Footnotes:

- ^C 7196A sample methodology
- ^D 7199 sample methodology (Sample was homogenized before being run)
- ^E False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than total chrome. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A and EPA Method 7199 for confirmation of the Cr6+ concentrations. Total chrome was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

¹ NOTE: Soil Remediation Standards from June 2008 were incorporated in the May 2012 rule without change.

- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts

Result exceeded criteria

Table 4J
 Site Investigation Borings (2011 & 2016)
 Complete Laboratory Analytical Summary Table
 PPG Site 63
 1 Burma Road
 Jersey City, NJ
 Sampled by TRC and CB&I

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Default Impact to Groundwater Soil Screening (11/13)	SB 13	SB13-A		B73	B73-A	
Sample Depth (ft bgs):				8.0-8.5	9-9.5	9.5-10	10-10.5	0.7-1.2	2.5-3
Sample Elevation (ft msl):				-0.1-0.4	-0.5-0	-1 - (-0.5)	-1.5 - (-1.0)	6.8-7.3	5-5.5
Client Sample ID:				SB13/8.0-8.5	SB13-A 9-9.5	SB13-A 9.5-10	SB13-A 10-10.5	PPG63/65_B73	B73-A 2.5-3.0
Lab Sample ID:				JA80694-5A	JC16626-7RA	JC16626-8A	JC16626-9A	JB85013-7	JC16626-10RA
Date Sampled:				07/12/11	3/18/2016	3/18/2016	3/18/2016	12/24/2014	3/18/2016
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED				EXCAVATED	

Metals Analysis

Chromium (mg/kg)	120,000	-	-	28.1	18.1 / 23.8	24.3	11.4	319	244 / 206
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General Chemistry

Chromium, Hexavalent (mg/kg) ^C	20	-	-	204	45.4 ^E	-	-	<0.51 *NR	2
Chromium, Hexavalent (mg/kg) ^C	20	-	-	-	2.7	-	-	-	<0.48
Chromium, Hexavalent (mg/kg) ^D	20	-	-	-	<1.5	-	-	-	<0.47
pH (su)	-	-	-	-	7.46	-	-	-	7.76
Redox Potential Vs H2 (mv)	-	-	-	-	276	-	-	-	336
Solids, Percent (%)	-	-	-	-	26.5	-	-	-	84

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.

- N -The matrix spike sample recovery in the associated QC sample is not within QC limits.
- R - The reported result is rejected.
- J- The result is estimated and may be biased low.

Footnotes:

- ^C 7196A sample methodology
- ^D 7199 sample methodology (Sample was homogenized before being run)
- ^E False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than total chrome. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A and EPA Method 7199 for confirmation of the Cr6+ concentrations. Total chrome was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

¹ NOTE: Soil Remediation Standards from June 2008 were incorporated in the May 2012 rule without change.

- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts

Result exceeded criteria

Table 4J
 Site Investigation Borings (2011 & 2016)
 Complete Laboratory Analytical Summary Table
 PPG Site 63
 1 Burma Road
 Jersey City, NJ
 Sampled by TRC and CB&I

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Default Impact to Groundwater Soil Screening (11/13)	SB 5		SB5-A		
Sample Depth (ft bgs):				5.0-5.5	10.0-10.5	10.4-10.9	10.9-11.4	11.4-11.9
Sample Elevation (ft msl):				3.1-3.6	-1.9-(-1.4)	-2.9 - (-2.4)	-3.4 - (-2.9)	-3.9 - (-3.4)
Client Sample ID:				SB5/5.0-5.5	SB5/10.0-10.5	SB5-A_10.4-10.9	SB5-A_10.9-11.4	SB5-A_11.4-11.9
Lab Sample ID:				JA81086-1A	JA81086-2A	JC16626-13RA	JC16626-14A	JC16626-15A
Date Sampled:				07/15/11	07/15/11	3/18/2016	3/18/2016	3/18/2016
Matrix:				Soil	Soil	Soil	Soil	Soil
Excavation Status:				EXCAVATED	EXCAVATED			
Metals Analysis								
Chromium (mg/kg)	120,000	-	-	39.9	16.7	19.4 / 21.9	12.3	6
General Chemistry								
Chromium, Hexavalent (mg/kg) ^C	20	-	-	<0.43	76	37.2^E	-	-
Chromium, Hexavalent (mg/kg) ^C	20	-	-	-	-	1.6	-	-
Chromium, Hexavalent (mg/kg) ^D	20	-	-	-	-	<1.3	-	-
pH (su)	-	-	-	-	-	7.6	-	-
Redox Potential Vs H2 (mv)	-	-	-	-	-	340	-	-
Solids, Percent (%)	-	-	-	-	-	30	-	-

Analytical Data Qualifiers:

- < - The analyte was not detected at the stated reporting limit.
- * - Duplicate analysis not within control limits; indeterminate bias direction.

- N -The matrix spike sample recovery in the associated QC sample is not within QC limits.
- R - The reported result is rejected.
- J- The result is estimated and may be biased low.

Footnotes:

- ^C 7196A sample methodology
- ^D 7199 sample methodology (Sample was homogenized before being run)
- ^E False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than total chrome. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A and EPA Method 7199 for confirmation of the Cr6+ concentrations. Total chrome was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

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- ft bgs = feet below ground surface
- mg/kg = milligram per kilogram
- su = standard unit
- mv = millivolts

Result exceeded criteria

Table 4K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Default Impact to Groundwater Soil (11/13)	SWR001_2.5-3.0	SWR002_2.6-3.1	SWR003_2.5-3.0	SWR004_2.5-3.0	SWR005_2.5-3.0	SWR006_2.5-3.0	SWR007_2.5-3.0	DUP-1	SWR008_2.5-3.0	SWR009_1.0-1.5	SW010_1.0-1.5		
Sample Depth (ft bgs):				2.5-3.0	2.6-3.1	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	1.0-1.5	1.0-1.5	
Sample Elevation (ft msl):				8.5-9.0	7.4-7.9	6.4-6.9	6.1-6.6	6.2-6.7	6.3-6.8	6.4-6.9	6.4-6.9	6.4-6.9	6.4-6.9	8.5-9.0	9.2-9.7	8.4-8.9
Excavated																
Lab Sample ID:				JC31406-1/1A/1R	JC31406-4/4A/4R	JC31406-5/5A/5R	JC31406-7/7A/7R	JC31406-6/6A/6R	JC31406-8/8A/8R	JC31406-9/9A/9R	JC31406-11/11A/11R	JC31527-8/8A/8T	JC31607-8/8A/8R	JC31527-10/1A/10T		
Date Sampled:	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/10/2016	11/11/2016	11/10/2016	11/10/2016			
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			

Metals Analysis

	mg/kg	450	31	6	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<2.7 NJ-	<2.7 NJ-	<2.0 NJ-	30.3 NJ- ^f	4.8 NJ-
Antimony	mg/kg	120,000	-	-	47.6	22.9	56.1	96.2	59.2	19	13.8	13.2	33.4	124	130
Chromium	mg/kg	23,000	1,600	205**	13	51.9	22.2	14.2	23.6	12.9	13.4	13.1	16.5	83.6	104
Nickel	mg/kg	79	5	3	<1.2	<1.1	<1.2	<1.1	<1.1	<1.1	<1.3	<1.4	<0.98	<1.1	<2.1
Thallium	mg/kg	1,100	390	0	27.9	24.2	34	32.3	39.5	26.7	17.7	17.6	28.2	44.9	46.5
Vanadium	mg/kg														

General Chemistry

	mg/kg	20	-	-	1.0 *NJ / 2.0 *NJ-	2.2 *NJ / <0.44 *NJ-	0.6 *NJ / <0.47 *NJ-	14.6 *NJ / 4.8 *NJ-	0.51 *NJ / 1.2 *NJ-	1.1 *NJ / 0.46 *NJ-	<0.55 *NJ / <0.55 *NJ-	<0.56 *NJ / 0.63 *NJ-	5.1 NJ- / 3.9	8.1 *NJ- / 2.6 NJ-	0.51 NJ- / 0.53
Chromium, Hexavalent	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	%	-	-	-	8.2	8.29	7.72	8.51	7.96	8.26	7.95	7.59	7.98	7.67	8.05
pH ^a	su	-	-	-	508	524	517	538	515	550	561	568	526	539	528
Redox Potential Vs H2	mv	-	-	-	86	89.9	85.4	87	88.2	87.3	73.3	71.8	97	91.6	94.4
Solids, Percent	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

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¹ NOTE: Soil Remediation Standards from June 2008 were incorporated in the May 2012 rule without change.

** - Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded the most stringent criteria

Table 4K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12) ¹	NJ Default Impact to Groundwater Soil (11/13)	SWR011_1.0-1.5	DUP-2	SWR013_1.0-1.5	SWR017_2.5-3.0	PPG63/65_SW25R2_4.3-4.8	PPG63/65_SW93_0.3-0.8	PPG63/65_SW119_1.6-2.1	BR001_4.2-4.7 (AD006)	BR002_3.5-4.0	BR003_8.1-8.6 (CD005)
Sample Depth (ft bgs):				1.0-1.5	1.0-1.5	1.0-1.5	2.5-3.0	4.3-4.8	0.3-0.8	1.6-2.1	4.2-4.7	3.5-4.0	8.1-8.6
Sample Elevation (ft msl):				7.2-7.7	7.2-7.7	8.8-9.3	5.3-5.8	4.5-5.0	10.5-11.0	8.5-9.0	3.0-3.5	5.0-5.5	-0.5 - 0
Excavated													
Lab Sample ID:				JC31527-11/11A/11T	JC31527-12/12A/12T	JC31607-9/9A/9R	JC31607-4/4A/4R	JC32217-11/1A/1R	JC31527-9/9A/9T	JC31406-3/3A/3R	JC31607-2/2A/2R	JC31607-1/1A/1R	JC31527-11/1A/1T
Date Sampled:	11/10/2016	11/10/2016	11/11/2016	11/11/2016	11/22/2016	11/10/2016	11/9/2016	11/11/2016	11/11/2016	11/10/2016			
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			

Metals Analysis

Element	Unit	SWR011_1.0-1.5	DUP-2	SWR013_1.0-1.5	SWR017_2.5-3.0	PPG63/65_SW25R2_4.3-4.8	PPG63/65_SW93_0.3-0.8	PPG63/65_SW119_1.6-2.1	BR001_4.2-4.7 (AD006)	BR002_3.5-4.0	BR003_8.1-8.6 (CD005)			
Antimony	mg/kg	450	31	6	3.9 NJ-	3.8 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.0 NJ-	<2.2 NJ-	5.9 NJ-	<2.3 NJ-	<6.8 NJ- ⁹
Chromium	mg/kg	120,000	-	-	174	122	305	40.1	185	36.7	30.3	25.8	467	2610
Nickel	mg/kg	23,000	1,600	205**	104	65.3	57	24.3	47.5	21.4	28.6	16.5	7.9	16.3
Thallium	mg/kg	79	5	3	<2.2	<2.1	<1.1	<1.1	<2.3	<1.0	<2.2 ^b	<1.1	<1.1	<1.1
Vanadium	mg/kg	1,100	390	0	51.5	51.3	54.8	18.8	48.2	28.4	50.4	26.5	15.7	48.7

General Chemistry

Parameter	Unit	SWR011_1.0-1.5	DUP-2	SWR013_1.0-1.5	SWR017_2.5-3.0	PPG63/65_SW25R2_4.3-4.8	PPG63/65_SW93_0.3-0.8	PPG63/65_SW119_1.6-2.1	BR001_4.2-4.7 (AD006)	BR002_3.5-4.0	BR003_8.1-8.6 (CD005)			
Chromium, Hexavalent	mg/kg	20	-	-	<0.45 NJ- / 2.3	<0.45 NJ- / 3.7	1 *NJ- / <0.46 NJ-	<0.47 *NJ- / <0.47 NJ-	2.4 NJ - / 8.3 NJ-	1.3 NJ- / <0.42	1 *NJ / 0.72 *NJ-	<0.47 *NJ- / <0.47 NJ-	16.1 *NJ- / 15.2 NJ-	2.7 NJ- / 4
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-
pH ^a	su	-	-	-	7.94	8.09	7.87	7.58	8.11	7.95	7.65	8.17	7.5	9.58
Redox Potential Vs H2	mv	-	-	-	540	540	541	531	520	530	514	536	534	537
Solids, Percent	%	-	-	-	88.4	89.7	87.1	85.6	83.9	95.9	86.1	84.4	84.8	85.9
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	135,000 J	-	-	-	-	-

Analytical Data Qualifiers:

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Table 4K
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PPG Site 63, 1 Burma Road,
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Sampled by CB&I

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Sample Depth (ft bgs):				7.3-7.8	4.7-5.2	4.4-4.9	4.1-4.6	6.7-7.2	3.3-3.8	1.9-2.4	1.5-2.0	1.0-1.5	1.0-1.5	0.5-1.0	1.0-1.5
Sample Elevation (ft msl):				0.5-1.0	4.1-4.6	4.0-4.5	4.0-4.5	2.8-3.3	6.0-6.5	8.0-8.5	10.4-10.9	11.4-11.9	10.9-11.4	10.4-10.9	10.9-11.4
Excavated															
Lab Sample ID:				JC31406-10/10A/10R	JC31607-6/6A/6R	JC31607-5/5A/5R	JC31607-3/3A/3R	JC31607-7/7A/7R	JC31527-7/7A/7T	JC31406-2/2A/2R/2T	JC31527-2/2A/2R	JC31527-3/3A/3R	JC31527-4/4A/4R	JC31527-5/5A/5R	JC31527-6/6A/6R/6RT
Date Sampled:	11/9/2016	11/11/2016	11/11/2016	11/11/2016	11/11/2016	11/10/2016	11/9/2016	11/10/2016	11/10/2016	11/10/2016	11/10/2016	11/10/2016			
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			

Metals Analysis

Element	Unit	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15
Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.1 NJ-	<2.9 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	26.4	19.1	19.8	17	354	262	71.2	40.9	30.5	44.6	51.9	40.3
Nickel	mg/kg	23,000	1,600	205**	14.9	14.3	14.4	16.1	32	34	15.2	16.9	18.3	17.5	21.2	17.5
Thallium	mg/kg	79	5	3	<1.2	<1.2	<1.2	<1.2	<2.1	<1.4	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1
Vanadium	mg/kg	1,100	390	0	27	27.1	21.3	25.8	46.6	65.9	19.7	37.3	33.6	38.9	42.9	38.3

General Chemistry

Parameter	Unit	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15
Chromium, Hexavalent	mg/kg	20	-	-	0.47 *NJ / 0.64 *NJ-	<0.48 *NJ- / <0.48 NJ-	1.7 *NJ- / <0.48 NJ-	<0.50 *NJ- / <0.50 NJ-	10.4 *NJ- / 17.6 NJ-	1 NJ- / 4.5	4.1 *NJ / 4.5 *NJ-	5.2 NJ- / 2 NJ-	1.7 NJ- / 2.5 NJ-	3.5 NJ- / 2.3 NJ-	6.5 NJ- / 4.3 NJ-	4.6 NJ- / 4.7 NJ-
Iron, Ferrous	%	-	-	-	-	-	1.3 ^c	-	-	-	0.96 ^c	-	-	-	-	0.59 ^c
pH ^a	su	-	-	-	8	8.14	8.18	7.88	8.17	7.62	8.45	8.39	8.78	8.6	8.9	8.85
Redox Potential Vs H2	mv	-	-	-	520	543	546	540	545	267	541	262	265	264	269	276
Solids, Percent	%	-	-	-	84.8	84.2	83.5	80.3	90.4	68.6	87.4	84.7	86.2	84.1	86.3	86.8
Sulfide Screen		-	-	-	-	-	NEGATIVE ^d	-	-	-	NEGATIVE ^d	-	-	-	-	NEGATIVE ^d
Total Organic Carbon	mg/kg	-	-	-	-	-	11,800 ^e J	-	-	-	11,200 ^e J	-	-	-	-	11,300 ^e J

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