

Table 5C

Table of Exceedances for Soil Samples  
Initial Investigation  
Impact to Groundwater Soil Screening Levels

Sites 63 and 65 Remedial Investigation Report  
PPG Industries, Inc.  
Jersey City, New Jersey

LOCATION SAMPLE ID SAMPLE_DATE TOP OF SAMPLE	IGW SSL	NUMBER OF EXCEEDANCES DETECTION/ NON- DETECTION	063_B003			063_B004	063_B004a		
			063_B003_0.0 20110722	063_B003_0.5 20110722	063_B003_1.0 20110722	063_B004_0.0 20110721	063_B004a_0.0 20110722	063_B004a_0.5 20110722	063_B004a_1.2 20110722
			0	0.5	1	0	0	0.5	1.2
<b>Metals (MG/KG)</b>									
ANTIMONY	6	8/7	0.89 UJ	0.94 UJ	0.97 UJ	0.86 UJ	0.98 UJ	1 UJ	1 UJ
CHROMIUM	NC	NA	45.9	1790	473	38.6	2050	1340	2270
NICKEL	31	54/0	14.8	<b>86.2</b>	<b>94.5</b>	16.9	<b>91.2</b>	<b>94.2</b>	<b>54.8</b>
THALLIUM	3	0/5	0.98 U	1 U	1.1 U	0.95 U	1.1 U	1.1 U	1.1 U
VANADIUM	NC	NA	45	144	36.3	36.3	124	126	176
<b>Miscellaneous Parameters (MG/KG)</b>									
HEXAVALENT CHROMIUM	NC	NA	0.51 U	0.8 J	0.61 J	0.52 U	12.6	8.1	6.3
<b>Miscellaneous Parameters (MV)</b>									
OXIDATION REDUCTION POTENTIAL	NC	NA	471	448	403	484	476	403	331
<b>Miscellaneous Parameters (S.U.)</b>									
PH	NC	NA	9.48	8.75	8.34	8.66	8.45	9.61	10.9

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**EXCEEDS IGW SSL**

NON-DETECTION EXCEEDS IGW SSL

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LOCATION	IGW SSL	063_B005	063_B006		063_B007	063_B008		063_B009		
SAMPLE ID		063_B005_1.3	063_B006_1.0	063_B006_1.5	063_B007_1.0	063_B008_1.0	063_B008_1.6	063_B009_0.0	063_B009_0.5	063_B009_1.7
SAMPLE_DATE		20110719	20110715	20110715	20110719	20110720	20110720	20110711	20110711	20110711
TOP OF SAMPLE		1.3	1	1.5	1	1	1.6	0	0.5	1.7
<b>Metals (MG/KG)</b>										
ANTIMONY	6	38.2 J	1 UJ	1 UJ	0.91 UJ	2.5 UJ	2.6 UJ	4 J	3.8 J	5.2 J
CHROMIUM	NC	10400	1640 J	3700 J	1480	24.7	3540	1540	256	2860
NICKEL	31	34.8	38.9	85.2	33.6	8.8 J	40	50.4	13.3	11.8
THALLIUM	3	14 U	1.1 U	2.8 U	1 U	1.1 U	1.2 U	0.35 U	0.29 U	0.4 U
VANADIUM	NC	41.1	68.4	95.7	79.4	26.1	65.1	134 J	15.2 J	17.7 J
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	16.3 J	33.3 J	23.9 J	2.5 J	0.58 U	3.9	2.2 J	1.5 J	1.5 J
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	327	383	320	328	499	297	411	412	410
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	10.4	11.4	11.8	11.2	8.49	11.1	7.93	7.53	7.97

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LOCATION	IGW SSL	063_B010		063_B010a	063_B011		063_B012	063_B013		
SAMPLE ID		063_B010_0.0	063_B010_1.5	063_B010a_0.0	063_B011_0.0	063_B011_0.5	063_B012_0.0	063_B013_0.0	063_B013_1.0	063_B013_3.0
SAMPLE_DATE		20110728	20110728	20110727	20110728	20110728	20110711	20110728	20110728	20110728
TOP OF SAMPLE		0	1.5	0	0	0.5	0	0	1	3
<b>Metals (MG/KG)</b>										
ANTIMONY	6	1.7 J	<b>8.5 J</b>	0.91 UJ	<b>7.1 J</b>	<b>13 J</b>	4.6 J	5.3 UJ	5.1 UJ	5.1 UJ
CHROMIUM	NC	717	2500	1430 J	2210 J	6150 J	4930	2420	3580	3900
NICKEL	31	<b>42.4</b>	<b>189</b>	<b>32.3</b>	<b>120</b>	<b>131</b>	<b>203</b>	<b>333</b>	<b>230</b>	<b>246</b>
THALLIUM	3	1.1 U	1.1 U	1 U	1.1 U	1.2 U	0.33 U	1.2 U	1.1 U	1.1 U
VANADIUM	NC	65.4	247	59.4	182	185	280 J	392	292	315
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	16.6	8.6	4.5	9.1	0.66 J	4.9 J	14.8	41.7	20.4
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	423	386	454	445	415	465	424	422	471
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	7.58	9.75	8.29	7.9	8.17	5.78	8.7	8.95	8.57

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		063_B014_0.0 20110725	063_B014_1.25 20110725	063_B014_2.25 20110725	063_B014_3.0 20110725	063_B015_0.0 20110714	063_C003_0.0 20110721	063_C003_0.5 20110721
TOP OF SAMPLE		0	1.25	2.25	3	0	0	0.5
<b>Metals (MG/KG)</b>								
ANTIMONY	6	0.87 UJ	1 J	0.91 UJ	1.9 J	0.91 UJ	0.94 UJ	0.98 UJ
CHROMIUM	NC	464	144	838	132	51.4 J	1800 J	1210 J
NICKEL	31	<b>51.9</b>	16.9	<b>89.4</b>	18.7	24.9	<b>108</b>	<b>33.5</b>
THALLIUM	3	0.96 U	0.99 U	1 U	1.1 U	1 U	1 U	1.1 U
VANADIUM	NC	84.9	33	128	38.5	50.9	154	64.2
<b>Miscellaneous Parameters (MG/KG)</b>								
HEXAVALENT CHROMIUM	NC	0.64 J	0.73 J	1.6 J	0.55 UJ	0.52 J	3.9	1.2 J
<b>Miscellaneous Parameters (MV)</b>								
OXIDATION REDUCTION POTENTIAL	NC	482	504	322	419	402	367	371
<b>Miscellaneous Parameters (S.U.)</b>								
PH	NC	8.06	7.98	10.8	8.37	7.91	9	8.66

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LOCATION	IGW SSL	063_C004			063_C004a		063_C005		
SAMPLE ID		063_C004_0.2	063_C004_0.7	063_C004_1.2	063_C004a_0.2	063_C004a_0.7	063_C005_1.0	063_C005_2.0	063_C005_2.5
SAMPLE_DATE		20110721	20110721	20110721	20110722	20110722	20110713	20110713	20110713
TOP OF SAMPLE		0.2	0.7	1.2	0.2	0.7	1	2	2.5
<b>Metals (MG/KG)</b>									
ANTIMONY	6	2.3 UJ	2.7 UJ	1.1 UJ	0.96 UJ	2.8 UJ	1.3 J	6.8 J	32.8 UJ
CHROMIUM	NC	1590 J	2880 J	3220 J	2120	4070	743	6080	32900 J
NICKEL	31	147	203	39.4	69.5	46.4	27.7	551	661 J
THALLIUM	3	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.1 U	6.3 U	36 U
VANADIUM	NC	177	258	70.6	134	106	49.7	718	539
<b>Miscellaneous Parameters (MG/KG)</b>									
HEXAVALENT CHROMIUM	NC	13.9	59	18.5	0.56 U	10	2.5 J	1560 J	9470 J
<b>Miscellaneous Parameters (MV)</b>									
OXIDATION REDUCTION POTENTIAL	NC	385	319	320	512	513	357	233	213
<b>Miscellaneous Parameters (S.U.)</b>									
PH	NC	10.8	11.4	10.9	8.61	8.63	10.5	12.6	12.4

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LOCATION	IGW SSL	063_C006		063_C007	063_C008	063_C009	063_C009a	063_C010		
SAMPLE ID		063_C006_1.0	063_C006_1.75	063_C007_1.0	063_C008_1.0	063_C009_1.0	063_C009a_0.0	063_C010_0.0	063_C010_0.7	063_C010_1.2
SAMPLE_DATE		20110713	20110713	20110713	20110720	20110720	20110727	20110727	20110727	20110727
TOP OF SAMPLE		1	1.75	1	1	1	0	0	0.7	1.2
<b>Metals (MG/KG)</b>										
ANTIMONY	6	13.3 UJ	1.2 UJ	2.5 UJ	2.5 UJ	1 UJ	0.87 UJ	5.2 J	10.2 UJ	10.7 UJ
CHROMIUM	NC	14200 J	1530 J	646 J	99.9	1990	32.5	1420	4020	12400
NICKEL	31	14 J	69.4 J	9 J	8.1 J	108	12.8	27.4	149	31.6
THALLIUM	3	14.7 U	1.3 U	2.8 U	2.7 U	1.1 U	0.96 U	0.96 U	1.1 U	1.2 U
VANADIUM	NC	100 J	111	24.9 J	23.1 J	132	41.8	58.4	286	104
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	9.4	30	4	0.57 U	0.79 J	0.51 U	8.2	3	3.8
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	296	227	316	361	414	351	507	433	358
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	11.8	11.9	10.4	8.98	9.93	7.41	8.29	9.22	9.83

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		063_C011_0.4 20110725	063_C011_0.9 20110725	063_C011_1.4 20110725	063_C012_0.0 20110728	063_D003_0.0 20110713	063_D003_3.8 20110713	063_D004_0.0 20110725	063_D004_0.5 20110725	063_D004_1.0 20110725
<b>Metals (MG/KG)</b>										
ANTIMONY	6	4.9 UJ	5.2 UJ	1.2 UJ	0.93 UJ	0.9 UJ	1.1 UJ	0.92 UJ	0.95 UJ	0.95 UJ
CHROMIUM	NC	3380	5260	2060	378	237	14.1	205	586	218
NICKEL	31	<b>321</b>	<b>285</b>	22.4	<b>35.2</b>	28.4	11	20.6	<b>33.1</b>	9.2
THALLIUM	3	1.1 U	1.2 U	1.3 U	1 U	0.99 U	1.2 U	1 U	1 U	1 U
VANADIUM	NC	497	533	50.2	49	47.3	18.6	59.3	46.6	13.4
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	7.4 J	0.62 UJ	1.2 J	2.1 J	0.53 UJ	0.61 UJ	1.4 J	0.57 UJ	0.56 UJ
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	515	464	440	451	463	388	444	451	431
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	8.62	8.44	7.91	7.96	8.16	7.62	8.92	8.51	7.96

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LOCATION	IGW SSL	063_D005			063_D006	063_D007	063_D008	063_D009	063_D010	
SAMPLE ID		063_D005_0.0	063_D005_0.8	063_D005_1.3	063_D006_1.0	063_D007_0.0	063_D008_0.0	063_D009_1.5	063_D010_0.0	063_D010_0.5
SAMPLE_DATE		20110714	20110714	20110714	20110712	20110727	20110727	20110712	20110726	20110726
TOP OF SAMPLE		0	0.8	1.3	1	0	0	1.5	0	0.5
<b>Metals (MG/KG)</b>										
ANTIMONY	6	0.89 UJ	0.9 UJ	5 J	0.59 UJ	0.91 J	0.88 UJ	0.9 J	3.8 J	<b>10.4 J</b>
CHROMIUM	NC	133 J	87.4 J	4920 J	44.5	415 J	118 J	7930	244 J	266 J
NICKEL	31	19.8	15.2	17.2	10.4	<b>39.8</b>	18.3	<b>149</b>	<b>210</b>	<b>119</b>
THALLIUM	3	0.98 U	2.5 U	<b>5.2 U</b>	0.33 U	0.99 U	0.97 U	0.37 U	0.92 U	1 U
VANADIUM	NC	31.4	88.5	117	18.6	61	47	190	53.5	59.5
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	0.85 J	0.55 J	1.3 J	0.58 U	4.7	0.61 J	11.4	2 J	1.5 J
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	433	412	377	354	409	528	334	526	515
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	8.18	9.28	8.32	9.1	8.72	8.1	9.43	8.3	8.52

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LOCATION		063_D011	063_E003	063_E004	063_E005		063_E006	063_E007	065_A005	065_A006
SAMPLE ID	IGW	063_D011_0.0	063_E003_0.0	063_E004_0.0	063_E005_0.0	063_E005_0.5	063_E006_0.0	063_E007_0.0	065_A005_0.0	065_A006_0.0
SAMPLE_DATE	SSL	20110728	20110726	20110726	20110726	20110726	20110726	20110727	20110801	20110801
TOP OF SAMPLE		0	0	0	0	0.5	0	0	0	0
<b>Metals (MG/KG)</b>										
ANTIMONY	6	1 UJ	0.9 UJ	0.93 UJ	0.94 UJ	0.91 UJ	0.87 UJ	0.96 J	0.97 UJ	9 UJ
CHROMIUM	NC	303	28.9 J	63.3 J	302 J	53.5 J	152 J	328 J	1000	4490 J
NICKEL	31	29.8	33.8	28.3	28.4	7.8 J	24	28.2	63.6	47.2
THALLIUM	3	1.1 U	0.99 U	1 U	1 U	1 U	0.96 U	1 U	1.1 U	0.99 U
VANADIUM	NC	54	51.1	51.3	61.3	9 J	45.4	66.6	81.9	79.6
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	1.4 J	0.54 U	0.56 U	1.7 J	0.52 U	1.7 J	4.4	1.3 J	12.6
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	459	518	497	499	507	351	493	332	260
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	7.67	8.03	7.57	8.12	8.52	8.11	8.15	8.49	11.5

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SAMPLE ID		065_A007_0.0	065_A008_0.0	065_A009_0.0	065_A010_0.3	065_A010_5.0	065_A011_0.0	065_A012_0.0	065_A013_0.0	065_A013_0.5
SAMPLE_DATE		20110801	20110801	20110801	20110801	20110801	20110728	20110801	20110728	20110728
TOP OF SAMPLE		0	0	0	0.3	5	0	0	0	0.5
<b>Metals (MG/KG)</b>										
ANTIMONY	6	10.6 UJ	6.1 J	2.4 UJ	0.93 UJ	2.6 UJ	3 J	1 UJ	9 UJ	7.3 J
CHROMIUM	NC	5050 J	3830	2240	472	51.1	647	549	2330	749
NICKEL	31	50.3	54	44.6	26.5	26.1	49.4	43.3	96.9	28.8
THALLIUM	3	1.2 U	1.1 U	1.1 U	1 U	2.8 U	0.99 U	1.1 U	0.99 U	1 U
VANADIUM	NC	75.9	83.1	110	45.1	19.3 J	79	54.7	135	84.2
<b>Miscellaneous Parameters (MG/KG)</b>										
HEXAVALENT CHROMIUM	NC	10.1	2.4 J	0.58 U	1.6 J	0.58 U	4.3	8.9	7.6	7.8
<b>Miscellaneous Parameters (MV)</b>										
OXIDATION REDUCTION POTENTIAL	NC	365	347	478	378	398	469	492	555	573
<b>Miscellaneous Parameters (S.U.)</b>										
PH	NC	9.43	10.4	7.7	9.35	8.06	8.3	7.5	8.45	8.28

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		065_A014_0.0 20110801	065_A014_0.5 20110801	065_A014_1.5 20110801	065_A015_0.0 20110801
		0	0.5	1.5	0
<b>Metals (MG/KG)</b>					
ANTIMONY	6	1.6 J	2 J	1.8 J	1.7 J
CHROMIUM	NC	409	206	34.6	132
NICKEL	31	43.3	30.6	20.1	33.4
THALLIUM	3	0.98 U	1 U	1 U	1 U
VANADIUM	NC	63.9	47.9	28.6	44.6
<b>Miscellaneous Parameters (MG/KG)</b>					
HEXAVALENT CHROMIUM	NC	2.8 J	0.96 J	0.54 UJ	0.51 UJ
<b>Miscellaneous Parameters (MV)</b>					
OXIDATION REDUCTION POTENTIAL	NC	413	451	391	363
<b>Miscellaneous Parameters (S.U.)</b>					
PH	NC	7.98	8.2	9.59	8.67

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