

**Table 5-2**  
**Analytical Results - Hexavalent Chromium and CCPW Metals Compared to SRS**  
**Northern Canal Area**  
**PPG, Jersey City, New Jersey**

					Analyte	ANTIMONY	CHROMIUM	CHROMIUM	NICKEL	THALLIUM	VANADIUM						
					CAS-RN	7440-36-0	7440-47-3	(HEXAVALENT)	7440-02-0	7440-28-0	7440-62-2						
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
					RDCSRS	31	120000	20	1600		78						
					NRDCSRS	450		20	23000		1100						
Location	Depth Interval	Sample ID	Lab ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
NSB-D1	1.0 - 1.5 ft	NSB-D1-1.0-1.5	JB14312-1R	8/21/2012	N					1.8	J						
NSB-D1	4.0 - 4.5 ft	NSB-D1-4.0-4.5	JB14312-5R	8/21/2012	N					4.3	J						
NSB-D1	7.7 - 8.2 ft	NSB-D1-7.7-8.2	JB14312-6R	8/21/2012	N					0.35	J						
NSB-D1	12.0 - 12.5 ft	NSB-D1-12.0-12.5	JB14312-2	8/21/2012	N					0.42	J						
NSB-D1	16.0 - 16.5 ft	NSB-D1-16.0-16.5	JB14312-3R	8/21/2012	N					1.6	J						
NSB-D1	20.0 - 20.5 ft	NSB-D1-20.0-20.5	JB14312-4R	8/21/2012	N					0.46	J						
NSB-D2	3.0 - 3.5 ft	NSB-D2-3.0-3.5	JB14312-8R	8/21/2012	N					3.0	J						
NSB-D2	3.0 - 3.5 ft	NSB-D2-3.0-3.5X	JB14312-9R	8/21/2012	FD					2.1	J						
NSB-D2	6.0 - 6.5 ft	NSB-D2-6.0-6.5	JB14312-10R	8/21/2012	N					< 0.19	UJ						
NSB-D2	11.3 - 11.8 ft	NSB-D2-11.3-11.8	JB14312-7	8/21/2012	N					0.41	J						
NSB-D2	15.0 - 15.5 ft	NSB-D2-15.0-15.5	JB14404-14	8/22/2012	N					< 0.20	U						
NSB-D2	16.6 - 17.1 ft	NSB-D2-16.6-17.1	JB14404-13	8/22/2012	N					0.27	J						
NSB-D2	20.0 - 20.5 ft	NSB-D2-20.0-20.5	JB14404-15	8/22/2012	N					1.2							
NSB-D3	3.0 - 3.5 ft	NSB-D3-3.0-3.5	JB14312-11	8/21/2012	N					12.9	J						
NSB-D3	6.5 - 7.0 ft	NSB-D3-6.5-7.0	JB14404-12	8/22/2012	N					0.43	J						
NSB-D3	10.8 - 11.3 ft	NSB-D3-10.8-11.3	JB14404-11	8/22/2012	N					1.3	J						
NSB-D3	15.0 - 15.5 ft	NSB-D3-15.0-15.5	JB14404-10	8/22/2012	N					< 0.22	U						
NSB-D3	21.0 - 21.5 ft	NSB-D3-21.0-21.5	JB14404-9	8/22/2012	N					0.47							
NSB-D4	1.0 - 1.5 ft	NSB-D4-1.0-1.5	JB14312-12R	8/21/2012	N					2.3	J						
NSB-D4	6.0 - 6.5 ft	NSB-D4-6.0-6.5	JB14404-7	8/22/2012	N					< 0.17	U						
NSB-D4	10.5 - 11.0 ft	NSB-D4-10.5-11.0	JB14404-6	8/22/2012	N					0.57							
NSB-D4	12.0 - 12.5 ft	NSB-D4-12.0-12.5	JB14404-5	8/22/2012	N					1.1							
NSB-D4	16.5 - 17.0 ft	NSB-D4-16.5-17.0	JB14404-4	8/22/2012	N					0.64							
NSB-D4	20.0 - 20.5 ft	NSB-D4-20.0-20.5	JB14404-3	8/22/2012	N					1.1							
NSB-D5	3.0 - 3.5 ft	NSB-D5-3.0-3.5	JB14201-11R	8/20/2012	N					0.57	J						
NSB-D5	3.0 - 3.5 ft	NSB-D5-3.0-3.5X	JB14201-10	8/20/2012	FD					0.27	J						
NSB-D5	6.4 - 6.9 ft	NSB-D5-6.4-6.9	JB14201-9R	8/20/2012	N					0.28	J						
NSB-D5	12.0 - 12.5 ft	NSB-D5-12.0-12.5	JB14201-8R	8/20/2012	N					0.71	J						
NSB-D5	15.0 - 15.5 ft	NSB-D5-15.0-15.5	JB14201-7	8/20/2012	N					0.22	J						
NSB-D5	18.0 - 18.5 ft	NSB-D5-18.0-18.5	JB14201-6	8/20/2012	N					0.17	J						
NSB-D5	20.0 - 20.5 ft	NSB-D5-20.0-20.5	JB14201-5	8/20/2012	N					0.71	J						
NSB-E1	2.0 - 2.5 ft	NSB-E1-2.0-2.5	JB14656-21	8/24/2012	N					1.3	J						
NSB-E1	4.0 - 4.5 ft	NSB-E1-4.0-4.5	JB14656-19	8/24/2012	N					9.2	J						
NSB-E1	10.0 - 10.5 ft	NSB-E1-10.0-10.5	JB14656-15	8/24/2012	N					< 0.13	UJ						
NSB-E1	12.5 - 13.0 ft	NSB-E1-12.5-13.0	JB14656-14	8/24/2012	N					0.17	J						
NSB-E1	16.0 - 16.5 ft	NSB-E1-16.0-16.5	JB14656-13	8/24/2012	N					< 0.13	UJ						
NSB-E1	20.0 - 20.5 ft	NSB-E1-20.0-20.5	JB14656-12	8/24/2012	N					< 0.13	UJ						
NSB-E2	1.0 - 1.5 ft	NSB-E2-1.0-1.5	JB14656-18	8/24/2012	N					< 0.14	UJ						
NSB-E2	1.0 - 1.5 ft	NSB-E2-1.0-1.5X	JB14656-17	8/24/2012	FD					4.6	J						
NSB-E2	4.0 - 4.5 ft	NSB-E2-4.0-4.5	JB14656-16	8/24/2012	N					4.8	J						
NSB-E2	12.5 - 13.0 ft	NSB-E2-12.5-13.0	JB14656-9	8/24/2012	N					0.46	J						
NSB-E2	16.0 - 16.5 ft	NSB-E2-16.0-16.5	JB14656-8	8/24/2012	N					< 0.13	UJ						

**Table 5-2**  
**Analytical Results - Hexavalent Chromium and CCPW Metals Compared to SRS**  
**Northern Canal Area**  
**PPG, Jersey City, New Jersey**

					<b>Analyte</b>	<b>ANTIMONY</b>	<b>CHROMIUM</b>	<b>CHROMIUM</b>	<b>NICKEL</b>	<b>THALLIUM</b>	<b>VANADIUM</b>				
					<b>CAS-RN</b>	7440-36-0	7440-47-3	(HEXAVALENT)	7440-02-0	7440-28-0	7440-62-2				
					<b>Units</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
					<b>RDCSRS</b>	31	120000	20	1600		78				
					<b>NRDCSRS</b>	450		20	23000		1100				
<b>Location</b>	<b>Depth Interval</b>	<b>Sample ID</b>	<b>Lab ID</b>	<b>Date Collected</b>	<b>Sample Type</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>
NSB-E2	21.0 - 21.5 ft	NSB-E2-21.0-21.5	JB14656-7	8/24/2012	N					< 0.13	UJ				
NSB-E3	0.5 - 1.0 ft	NSB-E3-0.5-1.0	JB14656-11	8/24/2012	N					1.2	J				
NSB-E3	4.0 - 4.5 ft	NSB-E3-4.0-4.5	JB14656-10	8/24/2012	N					0.92	J				
NSB-E3	5.5 - 6.0 ft	NSB-E3-5.5-6.0	JB14656-6	8/24/2012	N					< 0.17	UJ				
NSB-E3	10.0 - 10.5 ft	NSB-E3-10.0-10.5	JB14656-5	8/24/2012	N					< 0.19	UJ				
NSB-E3	16.0 - 16.5 ft	NSB-E3-16.0-16.5	JB14656-4	8/24/2012	N					< 0.14	UJ				
NSB-E3	20.0 - 20.5 ft	NSB-E3-20.0-20.5	JB14656-3	8/24/2012	N					2.6	J				
NSB-E4	1.0 - 1.5 ft	NSB-E4-1.0-1.5	JB14656-2	8/24/2012	N					1.3	J				
NSB-E4	4.0 - 4.5 ft	NSB-E4-4.0-4.5	JB14656-1	8/24/2012	N					1.1	J				
NSB-E4	6.5 - 7.0 ft	NSB-E4-6.5-7.0	JB14769-11	8/27/2012	N					< 0.18	U				
NSB-E4	12.0 - 12.5 ft	NSB-E4-12.0-12.5	JB14769-9	8/27/2012	N					0.34	J				
NSB-E4	16.0 - 16.5 ft	NSB-E4-16.0-16.5	JB14769-8	8/27/2012	N					0.21	J				
NSB-E4	16.0 - 16.5 ft	NSB-E4-16.0-16.5X	JB14769-7	8/27/2012	FD					0.39	J				
NSB-E4	21.0 - 21.5 ft	NSB-E4-21.0-21.5	JB14769-6	8/27/2012	N					< 0.13	U				
NSB-E5	3.0 - 3.5 ft	NSB-E5-3.0-3.5	JB14201-12	8/20/2012	N					0.82	J				
NSB-F1	1.0 - 1.5 ft	NSB-F1-1.0-1.5	JB14769-5	8/27/2012	N					1.6					
NSB-F1	4.0 - 4.5 ft	NSB-F1-4.0-4.5	JB14769-4	8/27/2012	N					3.4					
NSB-F1	10.0 - 10.5 ft	NSB-F1-10.0-10.5	JB14769-3	8/27/2012	N					1.2					
NSB-F1	16.0 - 16.5 ft	NSB-F1-16.0-16.5	JB14769-2	8/27/2012	N					0.16	J				
NSB-F1	20.0 - 20.5 ft	NSB-F1-20.0-20.5	JB14769-1	8/27/2012	N					< 0.14	U				
NSB-F2	1.0 - 1.5 ft	NSB-F2-1.0-1.5	JB14858-7	8/28/2012	N					2.8	J				
NSB-F2	4.0 - 4.5 ft	NSB-F2-4.0-4.5	JB14858-6	8/28/2012	N					2.6	J				
NSB-F2	10.5 - 11.0 ft	NSB-F2-10.5-11.0	JB14858-5	8/28/2012	N					0.60	J				
NSB-F2	10.5 - 11.0 ft	NSB-F2-10.5-11.0X	JB14858-4R	8/28/2012	FD					3.3	J				
NSB-F2	15.0 - 15.5 ft	NSB-F2-15.0-15.5	JB14858-3	8/28/2012	N					1.8	J				
NSB-F2	17.8 - 18.3 ft	NSB-F2-17.8-18.3	JB14858-2R	8/28/2012	N					< 0.13	UJ				
NSB-F2	21.5 - 22.0 ft	NSB-F2-21.5-22.0	JB14858-1	8/28/2012	N					0.74	J				
NSB-F3	1.0 - 1.5 ft	NSB-F3-1.0-1.5	JB14858-14R	8/28/2012	N					1.3	J				
NSB-F3	4.0 - 4.5 ft	NSB-F3-4.0-4.5	JB14858-13R	8/28/2012	N					7.7	J				
NSB-F3	10.0 - 10.5 ft	NSB-F3-10.0-10.5	JB14858-10R	8/28/2012	N					1.3	J				
NSB-F3	15.0 - 15.5 ft	NSB-F3-15.0-15.5	JB14858-9R	8/28/2012	N					1.8	J				
NSB-F3	20.0 - 20.5 ft	NSB-F3-20.0-20.5	JB14858-8R	8/28/2012	N					3.8	J				
NSB-F4	0.0 - 0.5 ft	NSB-F4-0.0-0.5	JB14858-18R	8/28/2012	N					3.1	J				
NSB-F4	6.0 - 6.5 ft	NSB-F4-6.0-6.5	JB14858-16	8/28/2012	N					0.53	J				
NSB-F4	10.0 - 10.5 ft	NSB-F4-10.0-10.5	JB14858-15R	8/28/2012	N					2.0	J				
NSB-F4	16.0 - 16.5 ft	NSB-F4-16.0-16.5	JB14858-12R	8/28/2012	N					0.72	J				
NSB-F4	20.0 - 20.5 ft	NSB-F4-20.0-20.5	JB14858-11	8/28/2012	N					0.60	J				
NSB-F5	0.0 - 0.5 ft	NSB-F5-0.0-0.5	JB14201-4R	8/20/2012	N					0.67	J				
NSB-F5	4.0 - 4.5 ft	NSB-F5-4.0-4.5	JB14201-3R	8/20/2012	N					0.86	J				
NSB-F5	8.0 - 8.5 ft	NSB-F5-8.0-8.5	JB14201-2R	8/20/2012	N					< 0.14	UJ				
NSB-F5	12.0 - 12.5 ft	NSB-F5-12.0-12.5	JB14201-1R	8/20/2012	N					2.5	J				
NSB-F5	16.0 - 16.5 ft	NSB-F5-16.0-16.5	JB14312-15R	8/21/2012	N					0.40	J				

**Table 5-2  
Analytical Results - Hexavalent Chromium and CCPW Metals Compared to SRS  
Northern Canal Area  
PPG, Jersey City, New Jersey**

						<b>Analyte</b>	<b>ANTIMONY</b>	<b>CHROMIUM</b>	<b>CHROMIUM (HEXAVALENT)</b>	<b>NICKEL</b>	<b>THALLIUM</b>	<b>VANADIUM</b>			
						<b>CAS-RN</b>	7440-36-0	7440-47-3	18540-29-9	7440-02-0	7440-28-0	7440-62-2			
						<b>Units</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
						<b>RDCSRS</b>	31	120000	20	1600		78			
						<b>NRDCSRS</b>	450		20	23000		1100			
<b>Location</b>	<b>Depth Interval</b>	<b>Sample ID</b>	<b>Lab ID</b>	<b>Date Collected</b>	<b>Sample Type</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>	<b>Result</b>	<b>Qualifier</b>
NSB-F5	20.0 - 20.5 ft	NSB-F5-20.0-20.5	JB14312-13R	8/21/2012	N					0.49	J				
NTB-B2	2.0 - 2.5 ft	NTB-B2-2.0	460-31791-3	9/28/2011	N	1.3		56.9		< 0.56	U	14.9		0.18	J
NTB-C1	11.0 - 11.5 ft	NTB-C1-11.0	460-31791-2	9/28/2011	N	< 0.41	U	17.7		< 0.61	U	10.5		0.21	J
NTB-C2	12.0 - 12.5 ft	NTB-C2-12.0	460-31791-1	9/28/2011	N	< 0.56	U	2.1		< 0.80	U	< 1.2	U	< 0.25	U

**Notes:**

1. Results are reported in milligrams per kilogram (mg/kg).
  2. Depths are presented in feet below ground surface (bgs).
  3. Sample Type = N indicates normal original sample; FD indicates duplicate sample.
  4. For CCPW metals, **bold** values indicate a result that exceeds the RDCSRS. *Italic* values indicate a result that exceeds the NRDCSRS.
  5. For hexavalent chromium, the NJDEP CrSCC was used in place of the SRS. Bold and italic values indicate a result that exceeds the NJDEP CrSCC.
- CAS-RN = Chemical Abstract Service Registry Number  
 CCPW = Chromate Chemical Production Waste  
 CrSCC - Chromium Soil Cleanup Criteria  
 ft = feet  
 ID - Identification  
 NJDEP = New Jersey Department of Environmental Protection  
 NRDCSRS = NJDEP Non-Residential Direct Contact Soil Remediation Standard  
 RDCSRS = NJDEP Residential Direct Contact Soil Remediation Standard  
 SRS = Soil Remediation Standard
- B - Indicates that the analyte was detected at a concentration less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.  
 J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.  
 U - Indicates the analyte was not detected in the sample above the sample reporting limit.  
 UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.

**Table 5-2**  
**Analytical Results - Hexavalent Chromium and CCPW Metals Compared to SRS - Northern Canal Area**  
**PPG, Jersey City, New Jersey**

**Notes:**

1. All results are reported in milligrams per kilogram (mg/kg).
2. Depths are presented in feet below ground surface (bgs).
3. Sample Type = N indicates normal original sample; FD indicates duplicate sample.
4. For CCPW metals, **bold** values indicate a result that exceeds the RDCSRS. *Italic* values indicate a result that exceeds the NRDCSRS.
5. For hexavalent chromium, the NJDEP CrSCC was used in place of the SRS. **Bold** and *italic* values indicate a result that exceeds the NJDEP CrSCC.

CAS-RN = Chemical Abstract Service Registry Number

CCPW = Chromate Chemical Production Waste

CrSCC - Chromium Soil Cleanup Criteria

ft = feet

ID - Identification

NJDEP = New Jersey Department of Environmental Protection

NRDCSRS = NJDEP Non-Residential Direct Contact Soil Remediation Standard

RDCSRS = NJDEP Residential Direct Contact Soil Remediation Standard

SRS = Soil Remediation Standard

B - Indicates that the analyte was detected at a concentration less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.

U - Indicates the analyte was not detected in the sample above the sample reporting limit.

UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.