

Table 1-2
Compounds Exceeding Regulatory Criteria On or Emanating from Site 114
PPG Industries, Jersey City, New Jersey
Remedial Investigation Report - Soil

Analyte ¹	CAS-RN	NJDEP Soil Standards			Historic Soil Exceedance		Potential Source ³			
		RDCSRS ² (mg/kg)	NRDCSRS ² (mg/kg)	Default IGW SSL (mg/kg)	> SRS	> IGW SSL	PPG	MGP	Historic Fill	Property
Volatile Organic Compounds (VOCs)										
BTEX Related VOCs										
BENZENE	71-43-2	2	5	0.005	X	X		X		
ETHYLBENZENE	100-41-4	7800	110000	8		X		X		
TOLUENE (METHYLBENZENE)	108-88-3	6300	91000	4		X		X		
XYLENES	1330-20-7	12000	170000	12		X		X		
STYRENE (MONOMER)	100-42-5	90	260	2		X				X
CVOC Related VOCs										
1,1,1-TRICHLOROETHANE	71-55-6	290	4200	0.2		X				X
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2	7	0.005	X					X
CHLOROENZENE	108-90-7	510	7400	0.4		X				X
DICHLOROMETHANE	75-09-2	34	97	0.007		X				X
TETRACHLOROETHENE	127-18-4	2	5	0.005	X	X				X
VINYL CHLORIDE	75-01-4	0.7	2	0.005	X					X
Semivolatile Organic Compounds (SVOCs)										
MGP Related SVOCs										
ACENAPHTHENE	83-32-9	3400	37000	74		X		X		
BENZO(A)ANTHRACENE	56-55-3	0.6	2	0.5	X	X		X	X	
BENZO(A)PYRENE	50-32-8	0.2	0.2	0.2	X	X		X	X	
BENZO(B)FLUORANTHENE	205-99-2	0.6	2	2	X	X		X	X	
BENZO(K)FLUORANTHENE	207-08-9	6	23	16	X	X		X	X	
2-METHYLNAPHTHALENE	91-57-6	230	2400	5	X	X		X		
CHRYSENE	218-01-9	62	230	52	X	X		X		
DIBENZO(A,H)ANTHRACENE	53-70-3	0.2	0.2	0.5	X	X		X	X	
INDENO(1,2,3-CD)PYRENE	193-39-5	0.6	2	5	X	X		X	X	
NAPHTHALENE	91-20-3	6	17	16	X	X		X		
PYRENE	129-00-0	1700	18000	550	X			X		
Other SVOCs										
1,2,4-TRICHLOROENZENE ⁴	120-82-1	73	820	0.4		X				X
1,4-DICHLOROENZENE ⁴	106-46-7	5	13	1	X	X				X
3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	78-59-1	510	2000	0.2		X				X
3+4-METHYLPHENOL	106-44-5	31	340	--	X					X
ACETOPHENONE	98-86-2	2	5	2	X					X
CARBAZOLE	86-74-8	24	96	--	X					X
Metals & Cyanide										
Chromium Related Metals										
ANTIMONY	7440-36-0	31	450	6	X	X		X		
CHROMIUM	7440-47-3	120000	--	--	X			X		
CHROMIUM (HEXAVALENT)	18540-29-9	240	20	--	X			X		
NICKEL	7440-02-0	1600	23000	31		X		X		
THALLIUM	7440-28-0	5	79	3	X	X		X		
VANADIUM	7440-62-2	78	1100	--	X			X		
MGP Related Metals										
ARSENIC	7440-38-2	19	19	19	X	X		X	X	
LEAD	7439-92-1	400	800	59	X	X		X	X	
MERCURY	7439-97-6	23	65	0.1	X	X		X		
CYANIDE	57-12-5	1600	23000	13		X		X		
Other Metals										
ALUMINUM	7429-90-5	78000	--	3900	X	X				X
BARIUM	7440-39-3	16000	59000	1300		X				X
BERYLLIUM	7440-41-7	16	140	0.5		X			X	
CADMIUM	7440-43-9	78	78	1		X			X	
COBALT	7440-48-4	1600	590	59		X				X
COPPER	7440-50-8	3100	45000	7300	X	X				X
MANGANESE	7439-96-5	11000	5900	42	X	X				X
SELENIUM	7782-49-2	390	5700	7		X				X
SILVER	7440-22-4	390	5700	1		X				X
ZINC	7440-66-6	23000	110000	600		X			X	
Polychlorinated Biphenyls (PCBs)										
Total PCB (AROCLORS)	1336-36-3	0.2	1	0.2	X	X				X

Notes:

- 1 - Analytes listed are historic (2003 - 2011) soil compounds that have exceeded either the CrSCC, SRS or the IGW SSL.
2 - For hexavalent chromium, the NJDEP Chromium Soil Cleanup Criteria (CrSCC) has been used.
3 - Potential sources are based on NYSDEC "Contamination at MGP Sites", PPG list of CCPW compounds, and NJDEP TRSR.
4 - Compound analyzed as either SVOC or VOC fractions in Remedial Investigation dataset.
- CAS-RN = Chemical Abstract Service Registry Number
CCPW = Chromate Chemical Production Waste
CVOC = Chlorinated Volatile Organic Compound
MGP = Manufactured Gas Plant
NJDEP = New Jersey Department of Environmental Protection
NYSDEC = New York State Department of Environmental Conservation
TRSR = Technical Requirements for Site Remediation
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
NRDCSRS - NJDEP Non-residential Direct Contact Soil Remediation Standard
IGW SSL - NJDEP Default Impact to Groundwater Soil Screening Level
All results are reported in milligrams per kilogram (mg/kg).