Table 3-1
Compounds Exceeding Regulatory Criteria On or Emanating from Site 114
PPG Industries, Jersey City, New Jersey
Remedial Action Work Plan - Soil

AECOM

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	13		X		X		
TOLUENE (METHYLBENZENE)	108-88-3	6300	91000	7		X		X		
XYLENES	1330-20-7	12000	170000	19		X		X		
STYRENE (MONOMER)	100-42-5	90	260	3		X				X
CVOC Related VOCs										
1,1,1-TRICHLOROETHANE	71-55-6	290	4200	0.3		X				X
TRICHLOROETHYLENE	79-01-6	7	20	0.01		X				X
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2	7	0.005	X					X
CHLOROBENZENE	108-90-7	510	7400	0.6		X				X
DICHLOROMETHANE	75-09-2	34	97	0.01		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				X
Semivolatile Organic Compounds (SVOCs)										
MGP Related SVOCs										
ACENAPHTHENE	83-32-9	3400	37000	110		X		X		
BENZO(A)ANTHRACENE	56-55-3	0.6	2	0.8	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	25	X	X		X	X	
2-METHYLNAPHTHALENE	91-57-6	230	2400	8	X	X		X		
CHRYSENE	218-01-9	62	230	80	X	X		X		
DIBENZO(A,H)ANTHRACENE	53-70-3	0.2	0.2	0.8	X	X		X	X	
INDENO(1,2,3-CD)PYRENE	193-39-5	0.6	2	7	X	X		X	X	
NAPHTHALENE	91-20-3	6	17	25	X	X		X		
PYRENE	129-00-0	1700	18000	840	X			X		
Other SVOCs										
1,2,4-TRICHLOROBENZENE[4]	120-82-1	73	820	0.7		X				X
1,4-DICHLOROBENZENE[4]	106-46-7	5	13	2	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	3	X					X
CARBAZOLE	86-74-8	24	96	--	X					X
PHENOL	108-95-2	18000	210000	8		X		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	48		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	90	X	X		X	X	
MERCURY	7439-97-6	23	65	0.1	X	X		X		
CYANIDE	57-12-5	1600	23000	20		X		X		
Other Metals										
ALUMINUM	7429-90-5	78000	--	6000	X	X				X
BARIUM	7440-39-3	16000	59000	2100		X				X
BERYLLIUM	7440-41-7	16	140	0.7		X			X	
CADMIUM	7440-43-9	78	78	2		X			X	
COBALT	7440-48-4	1600	590	90		X				X
COPPER	7440-50-8	3100	45000	11000	X	X				X
MANGANESE	7439-96-5	11000	5900	65	X	X				X
SELENIUM	7782-49-2	390	5700	11		X				X
SILVER	7440-22-4	390	5700	1		X				X
ZINC	7440-66-6	23000	110000	930		X			X	
Pesticides										
BETA-BHC	319-85-7	0.4	2	0.002		X				X
GAMMA-BHC (LINDANE)	58-89-9	0.4	2	0.002		X				X
HEPTACHLOR EPOXIDE	1024-57-3	0.07	0.3	0.01		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 = Chromite Chemical Production Waste

CVOC = Chlorinated Volatile Organic Compound

MGP = Manufactured Gas Plant

NJDEP = New Jersey Department of Environmental Protection

NYSDEC = New York State Deparment 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).