

Table 5-1D
Occurrence, Distribution and Selection of COPCs
Warehouse 2/3

Medium	Cas No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
Surface Soils												
Metals	7429-90-5	ALUMINUM	2670	30700	mg/kg	MY05TP01(0-0.5)	8/8	14436.25	30700	7600	Y	ASL
	7440-36-0	ANTIMONY	0.05 J	0.12 J	mg/kg	MY05SS10(0-0.5) & SS14	3/4	0.08	0.12 J	3.1	N	BSL
	7440-38-2	ARSENIC	2.1	16.6	mg/kg	MY05TP01(0-0.5)	8/8	9.34	16.6	0.39	Y	ASL
	7440-39-3	BARIIUM	17	102	mg/kg	MY05TP01(0-0.5)	8/8	54.19	102	540	N	BSL
	7440-41-7	BERYLLIUM	0.14	0.93	mg/kg	MY05TP01(0-0.5)	8/8	0.44	0.93	150	N	BSL
	7440-42-8	BORON	2.85	4.5	mg/kg	MY05TP01(0-0.5)	3/8	1.64	4.5	1600	N	BSL
	7440-43-9	CADMIUM	0.3 J	0.37 J	mg/kg	MY05SS74	2/8	0.16	0.37 J	3.7	N	BSL
	7440-70-2	CALCIUM	474 J	2460	mg/kg	MY05SS10(0-0.5) & SS14	8/8	1601.75	2460	NA	N	NUT
	7440-47-3	CHROMIUM	15.1 J	58 J	mg/kg	MY05TP01(0-0.5)	8/8	31.66	58 J	10000	N	BSL
	7440-48-4	COBALT	1.8	18.3	mg/kg	MY05TP01(0-0.5)	8/8	9.31	18.3	90	N	BSL
	7440-50-8	COPPER	21.6	124	mg/kg	MY05SS72	8/8	48.23	124	310	N	BSL
	7439-89-6	IRON	9040	36500	mg/kg	MY05TP01(0-0.5)	8/8	20236.25	36500	2300	Y	ASL
	7439-92-1	LEAD	3.9	397	mg/kg	MY05TP02(0-0.5)	8/8	60.94	397	40	Y	ASL
	7439-95-4	MAGNESIUM	645	8740	mg/kg	MY05SS10(0-0.5) & SS14	8/8	5303.13	8740	NA	N	NUT
	7439-96-5	MANGANESE	76.5	744	mg/kg	MY05TP03(0-0.5)	8/8	381.63	744	180	Y	ASL
	7439-97-6	MERCURY	0.02 J	0.47	mg/kg	MY05TP01(0-0.5)	3/8	0.07	0.47	2.3	N	BSL
	7439-98-7	MOLYBDENUM	0.77	1.2	mg/kg	MY05TP02(0-0.5)	2/8	0.45	1.2	39	N	BSL
	7440-02-0	NICKEL	12.3	47.6	mg/kg	MY05TP01(0-0.5)	8/8	26.99	47.6	160	N	BSL
	7440-09-7	POTASSIUM	341 J	4650 J	mg/kg	MY05TP01(0-0.5)	8/8	2578.88	4650 J	NA	N	NUT
	7440-22-4	SILVER	0.06	1.2	mg/kg	MY05SS72	4/8	0.30	1.2	39	N	BSL
7440-23-5	SODIUM	93.2	198	mg/kg	MY05TP03(0-0.5)	8/8	138.94	198	NA	Y	NTX	
7440-62-2	VANADIUM	5.1	55.5	mg/kg	MY05TP01(0-0.5)	8/8	30.06	55	55	N	BSL	
7440-66-6	ZINC	25.8	103.1 J	ug/kg	MY05SS10(0-0.5) & SS14	8/8	60.28	103.1 J	2300	N	BSL	
PCBs	11097-69-1	PCB-1254	1400	1400	ug/kg	MY05TP01(0-0.5)	1/16	96.00				
	11096-82-5	PCB-1260	150 J	600 J	ug/kg	MY05HA09(0-0.5)	3/16	81.75				
		Total PCBs		2000	ug/kg				2000	220	Y	ASL
Pesticides	60-57-1	DIELDRIN	12 J	12 J	ug/kg	MY05TP02(0-0.5)	1/4	4.49	12 J	30	N	BSL
	72-20-8	ENDRIN	9.6 J	9.6 J	ug/kg	MY05TP02(0-0.5)	1/4	3.89	9.6 J	1800	N	BSL
SVOCs	120-12-7	ANTHRACENE	630	1000	ug/kg	MY05SS101	3/12	350.83	1000	2200000	N	BSL
	56-55-3	BENZO(A)ANTHRACENE	220 J	4200	ug/kg	MY05SS101	4/12	937.08				
	50-32-8	BENZO(A)PYRENE	200 J	3400	ug/kg	MY05SS101	4/12	777.08				
	205-99-2	BENZO(B)FLUORANTHENE	330 J	5300	ug/kg	MY05SS101	4/12	1187.92				
	207-08-9	BENZO(K)FLUORANTHENE	1000	2400	ug/kg	MY05SS101	3/12	542.50				
	218-01-9	CHRYSENE	255 J	4600	ug/kg	MY05SS101	4/12	998.33				
	53-70-3	DIBENZO(A,H)ANTHRACENE	250 J	430	ug/kg	MY05SS101	3/12	222.50				
	193-39-5	INDENO(1,2,3-CD)PYRENE	1100	2300	ug/kg	MY05SS101	3/12	559.17				
		BENZO(A)PYRENE equivalent		5039	ug/kg				5039	62	Y	ASL
	191-24-2	BENZO(G,H,I)PERYLENE	910	1800	ug/kg	MY05SS101	3/12	468.33	1800	NA	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALAT	187.5 J	187.5 J	ug/kg	MY05SS103& SS115	1/12	181.46	187.5 J	35000	N	BSL
	86-74-8	CARBAZOLE	380	380	ug/kg	MY05SS101	1/12	202.92	380	NA	Y	NTX
206-44-0	FLUORANTHENE	380 J	8400	ug/kg	MY05SS101	4/12	1650.42	8400	230000	N	BSL	

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Warehouse 2/3

Medium	Cas No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
VOCs	85-01-8	PHENANTHRENE	910	2800	ug/kg	MY05SS101	3/12	535.00	2800	NA	Y	NTX	
	129-00-0	PYRENE	440	8100	ug/kg	MY05SS101	4/12	1688.75	8100	230000	N	BSL	
	67-64-1	ACETONE	180 J	180 J	ug/kg	MY05HA09(0-0.5)	1/13	27.50	180 J	160000	N	BSL	
	75-09-2	METHYLENE CHLORIDE	90 J	90 J	ug/kg	MY05HA09(0-0.5)	1/13	13.62	90 J	9100	N	BSL	
	79-01-6	TRICHLOROETHENE	3 J	4 J	ug/kg	MY05SS74	2/13	2.88	4 J	53	N	BSL	
Surface and Subsurface Soils													
Metals	7429-90-5	ALUMINUM	2670	30700	mg/kg	MY05TP01(0-0.5)	19/19	15300.53	30700	7600	Y	ASL	
	7440-36-0	ANTIMONY	0.03 J	0.14 J	mg/kg	MY05SB36(6.5-8.5)	6/8	0.10	0.14 J	3.1	N	BSL	
	7440-38-2	ARSENIC	2.1	16.8	mg/kg	MY05TP01(3-3.5)	19/19	8.72	16.8	0.39	Y	ASL	
	7440-39-3	BARIUM	17	104	mg/kg	MY05SB36(6.5-8.5)	19/19	56.17	104	540	N	BSL	
	7440-41-7	BERYLLIUM	0.14	0.93	mg/kg	MY05TP01(0-0.5)	19/19	0.52	0.93	150	N	BSL	
	7440-42-8	BORON	0.57 J	5.5	mg/kg	MY05SB36(6.5-8.5)	7/19	1.46	5.5	1600	N	BSL	
	7440-43-9	CADIUM	0.04	0.37 J	mg/kg	MY05SS74	6/19	0.09	0.37 J	3.7	N	BSL	
	7440-70-2	CALCIUM	474 J	5740 J	mg/kg	MY05SB36(6.5-8.5)	19/19	1887.84	5740 J	NA	N	NUT	
	7440-47-3	CHROMIUM	14.1 J	62.7 J	mg/kg	MY05TP01(3-3.5)	19/19	31.76	62.7 J	10000	N	BSL	
	7440-48-4	COBALT	1.8	18.3	mg/kg	MY05TP01(0-0.5)	19/19	9.03	18.3	90	N	BSL	
Metals	7440-50-8	COPPER	9.4	124	mg/kg	MY05SS72	19/19	31.95	124	310	N	BSL	
	7439-89-6	IRON	9040	41800	mg/kg	MY05TP01(3-3.5)	19/19	20652.11	41800	2300	Y	ASL	
	7439-92-1	LEAD	3.9	397	mg/kg	MY05TP02(0-0.5)	19/19	31.38	397	40	Y	ASL	
	7439-95-4	MAGNESIUM	645	11300	mg/kg	MY05SB36(6.5-8.5)	19/19	5419.74	11300	NA	N	NUT	
	7439-96-5	MANGANESE	76.5	910	mg/kg	MY05TP03(0.5-7.0)	19/19	425.16	910	180	Y	ASL	
	7439-97-6	MERCURY	0.01 J	0.47	mg/kg	MY05TP01(0-0.5)	5/19	0.03	0.47	2.3	N	BSL	
	7439-98-7	MOLYBDENUM	0.6	3.5	mg/kg	MY05TP01(9.5-10)	7/19	0.65	3.5	39	N	BSL	
	7440-02-0	NICKEL	10.7	50.4	mg/kg	MY05TP01(3-3.5)	19/19	25.82	50.4	160	N	BSL	
	7440-09-7	POTASSIUM	7.9	6860 J	mg/kg	MY05SB36(6.5-8.5)	19/19	2820.47	6860 J	NA	N	NUT	
	7440-22-4	SILVER	0.01 J	1.2	mg/kg	MY05SS72	8/19	0.14	1.2	39	N	BSL	
PCBs	7440-23-5	SODIUM	91.35	352	mg/kg	MY05SB36(6.5-8.5)	18/19	156.84	352	NA	Y	NTX	
	7440-28-0	THALLIUM	0.24	0.24	mg/kg	MY05SB41(2-2.4)	1/19	0.12	0.24	0.52	N	BSL	
	7440-62-2	VANADIUM	5.1	61.8	mg/kg	MY05TP01(3-3.5)	19/19	31.00	61.8	55	Y	ASL	
	7440-66-6	ZINC	25.8	103.1 J	mg/kg	MY05SS10 & SS14(0-0.5)	19/19	54.20	103.1 J	2300	N	BSL	
	11097-69-1	PCB-1254	52	1400	ug/kg	MY05TP01(0-0.5)	4/35	67.73					
	11096-82-5	PCB-1260	31 J	600 J	ug/kg	MY05HA09(0-0.5)	4/35	42.81					
		Total PCBs		2000	ug/kg				2000	220	Y	ASL	
	Pesticides	60-57-1	DIELDRIN	12 J	12 J	ug/kg	MY05TP02(0-0.5)	1/15	3.91	12 J	30	N	BSL
		72-20-8	ENDRIN	9.6 J	9.6 J	ug/kg	MY05TP02(0-0.5)	1/15	3.75	9.6 J	1800	N	BSL
	SVOCs	91-57-6	2-METHYLNAPHTHALENI	710	2810 J	ug/kg	MY05TP15&TP25(4-6)	3/39	333.33	2810 J	NA	Y	TX
120-12-7		ANTHRACENE	630	1000	ug/kg	MY05SS101	3/39	242.69	1000	2200000	N	BSL	
56-55-3		BENZO(A)ANTHRACENE	220 J	4200	ug/kg	MY05SS101	4/39	423.08					
50-32-8		BENZO(A)PYRENE	200 J	3400	ug/kg	MY05SS101	4/39	373.85					
205-99-2		BENZO(B)FLUORANTHENE	180 J	5300	ug/kg	MY05SS101	5/39	500.26					
207-08-9		BENZO(K)FLUORANTHENE	1000	2400	ug/kg	MY05SS101	3/39	301.67					
218-01-9	CHRYSENE	255 J	4600	ug/kg	MY05SS101	4/39	441.92						

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Occurrence, Distribution and Selection of COPCs
Warehouse 2/3

Medium	Cas No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
VOCs	53-70-3	DIBENZO(A,H)ANTHRACENE	250 J	430	ug/kg	MY05SS101	3/39	203.21				
	193-39-5	INDENO(1,2,3-CD)PYRENE	1100	2300	ug/kg	MY05SS101	3/39	306.79				
		BENZO(A)PYRENE equivalent		5039	ug/kg				5039	62	Y	ASL
	191-24-2	BENZO(G,H,I)PERYLENE	910	1800	ug/kg	MY05SS101	3/39	278.85	1800	NA	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALAT	187.5 J	187.5 J	ug/kg	SS103&115	1/39	190.58	187.5 J	35000	N	BSL
	86-74-8	CARBAZOLE	380	380	ug/kg	MY05SS101	1/39	197.18	380	NA	Y	NTX
	84-74-2	DI-N-BUTYL PHTHALAT	510	510	ug/kg	MY05SB105(0-2.0)	1/39	200.38	510	610000	N	BSL
	206-44-0	FLUORANTHENE	380 J	8400	ug/kg	MY05SS101	4/39	640.71	8400	230000	N	BSL
	91-20-3	NAPHTHALENE	1200	1250 J	ug/kg	MY05TP15&TP25(4-6)	2/39	244.36	1250 J	5600	N	BSL
	85-01-8	PHENANTHRENE	910	2800	ug/kg	MY05SS101	3/39	299.36	2800	NA	Y	NTX
	129-00-0	PYRENE	200 J	8100	ug/kg	MY05SS101	5/39	654.87	8100	230000	N	BSL
	71-55-6	1,1,1-TRICHLOROETHANE	6	6.25	ug/kg	MY05GP103&GP115(8-11.3)	3/61	3.03	6.25	120000	N	BSL
	78-93-3	2-BUTANONE	14 J	93 J	ug/kg	MY05TP01(3-3.5)	6/38	10.18	93 J	730000	N	BSL
	591-78-6	2-HEXANONE	41 J	41 J	ug/kg	MY05TP01(3-3.5)	1/61	6.23	41 J	NA	N	NTX/IFD
	108-10-1	4-METHYL-2-PENTANONE	188.25	2900	ug/kg	MY05TP01(3-3.5)	3/61	58.77	2900	79000	N	BSL
	67-64-1	ACETONE	6 J	630 J	ug/kg	MY05GP102(0-2)	13/46	33.66	630 J	160000	N	BSL
	71-43-2	BENZENE	16 J	16 J	ug/kg	MY05TP01(3-3.5)	1/61	3.07	16 J	600	N	BSL
	100-41-4	ETHYLBENZENE	93	61000 J	ug/kg	MY05TP01(9.5-10)	6/61	1402.55	61000 J	8900	Y	ASL
	136777-61-2	M-,P-XYLENE	240	200000 J	ug/kg	MY05TP01(9.5-10)	6/61	4628.17	200000 J	27000	Y	ASL
	75-09-2	METHYLENE CHLORIDE	90 J	90 J	ug/kg	MY05HA09(0-0.5)	1/61	7.32	90 J	9100	N	BSL
95-47-6	O-XYLENE	92	79000 J	ug/kg	MY05TP01(9.5-10)	6/61	1758.19	79000 J	27000	Y	ASL	
108-88-3	TOLUENE	6	490 J	ug/kg	MY05TP01(3-3.5)	5/61	14.75	490 J	52000	N	BSL	
79-01-6	TRICHLOROETHENE	3 J	4 J	ug/kg	MY05SS74, MY05TP01(3-3.5)	3/61	2.91	4 J	53	N	BSL	

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

1 - USEPA Region 9 Soil PRGs modified to an HI = 0.1. Same units as reported concentrations

COPC - Compounds of Potential Concern

DRO - Diesel Range Organics

J - estimated concentration

Conc. - Concentration

Min. - Minimum

NUT - Essential Nutrient

Max - Maximum

NTX - Insufficient toxicity information

BSL - Below Screening Level

IFD - Detected in less than 5 % of samples

ASL - Above Screening Level

TX - toxicity information is available to evaluate risks

Y - Yes

N - No

Table 5-1E
Occurrence, Distribution and Selection of COPCs
345 kV Transmission Line Area

Medium	CAS No.	Chemical	Minimum Conc.	Maximum Conc.	Units	Location of Maximum	Detection Frequency	Average Concentration	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
Surface Soils													
Metals	7429-90-5	ALUMINUM	8025	27250	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	16424.04	27250	7600	Y	ASL	
	7440-36-0	ANTIMONY	0.02	0.02	mg/kg	MY05SB54 & SB55(0-0.5)	1/7	0.11	0.02	3.1	N	BSL	
	7440-38-2	ARSENIC	3.5	15.1	mg/kg	MY05SS109(0-0.5)	26/26	10.42	15.1	0.39	Y	ASL	
	7440-39-3	BARIIUM	31.85	105.85	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	63.08	105.85	540	N	BSL	
	7440-41-7	BERYLLIUM	0.275	1.1	mg/kg	MY05SS107(0-0.5)	20/26	0.63	1.1	150	N	BSL	
	7440-42-8	BORON	0.46	21.7	mg/kg	MY05SS107(0-0.5)	20/26	5.02	21.7	1600	N	BSL	
	7440-43-9	CADMIUM	0.07	0.52	mg/kg	MY05SS107(0-0.5)	20/26	0.29	0.52	3.7	N	BSL	
	7440-70-2	CALCIUM	1192.5	12435	mg/kg	MY05SS111 & SS150(0-0.5)	26/26	3086.63	12435	NA	N	NUT	
	7440-47-3	CHROMIUM	21.1	55.85	mg/kg	MY05SB50 & SB58(0-0.5)	25/26	37.05	55.85	10000	N	BSL	
	7440-48-4	COBALT	4.75	18.35	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	10.15	18.35	90	N	BSL	
	7440-50-8	COPPER	11.2	30.65	mg/kg	MY05SS111 & SS150(0-0.5)	26/26	19.83	30.65	310	N	BSL	
	7439-89-6	IRON	10540	37200	mg/kg	MY05SS107(0-0.5)	26/26	25440.00	37200	2300	Y	ASL	
	7439-92-1	LEAD	4.7	20.4	mg/kg	MY05SS110(0-0.5)	26/26	11.82	20.4	40	N	BSL	
	7439-95-4	MAGNESIUM	3045	8650	mg/kg	MY05SS112(0-0.5)	26/26	6806.54	8650	NA	N	NUT	
	7439-96-5	MANGANESE	194	1300	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	440.25	1300	180	Y	ASL	
	7439-97-6	MERCURY	0.0075	0.06	mg/kg	MY05SB23(0-0.5)	10/26	0.02	0.06	2.3	N	BSL	
	7439-98-7	MOLYBDENUM	0.76	1.15	mg/kg	MY05SS111 & SS150(0-0.5)	7/26	0.75	1.15	39	N	BSL	
	7440-02-0	NICKEL	11.45	43.8	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	28.48	43.8	160	N	BSL	
	7440-09-7	POTASSIUM	1645	5400	mg/kg	MY05SB52(0-0.5)	26/26	3932.88	5400	NA	N	NUT	
	7782-49-2	SELENIUM	0.215	0.77	mg/kg	MY05SS118(0-0.5)	3/26	0.36	0.77	39	N	BSL	
	7440-22-4	SILVER	0.055	0.45	mg/kg	MY05SB50 & SB58(0-0.5)	8/26	0.24	0.45	39	N	BSL	
	7440-23-5	SODIUM	95.5	402	mg/kg	MY05SS111 & SS150(0-0.5)	21/26	187.15	402	NA	Y	NTX	
	7440-28-0	THALLIUM	0.105	1.3	mg/kg	MY05SS114(0-0.5)	7/26	0.47	1.3	0.52	Y	ASL	
	7440-62-2	VANADIUM	17.35	62.65	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	37.73	62.65	55	Y	ASL	
	7440-66-6	ZINC	26.3	150.85	mg/kg	MY05SB50 & SB58(0-0.5)	26/26	67.24	150.85	2300	N	BSL	
	120-12-7	ANTHRACENE	440	440	ug/kg	MY05SS12(0-0.5)	1/25	208.37	440	2200000	N	BSL	
	56-55-3	BENZO(A)ANTHRACENE	207.5	1100	ug/kg	MY05SS12(0-0.5)	2/25	234.23					
	50-32-8	BENZO(A)PYRENE	217.5	860	ug/kg	MY05SS12(0-0.5)	2/25	225.38					
	205-99-2	BENZO(B)FLUORANTHENE	202.5	1100	ug/kg	MY05SS12(0-0.5)	2/25	234.04					
	207-08-9	BENZO(K)FLUORANTHENE	350	350	ug/kg	MY05SS12(0-0.5)	1/25	204.90					
	218-01-9	CHRYSENE	212.5	1000	ug/kg	MY05SS12(0-0.5)	2/25	230.58					
	193-39-5	INDENO(1,2,3-CD)PYRENE	440	440	ug/kg	MY05SS12(0-0.5)	1/25	208.37					
		BENZO(A)PYRENE equivalent		1129	ug/kg				1129	62	Y	ASL	
	191-24-2	BENZO(G,H,I)PERYLENE	360	360	ug/kg	MY05SS12(0-0.5)	1/25	205.29	360	NA	Y	NTX	
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	232.5	237.5	ug/kg	MY05SS113 & SS151(0-0.5)	2/25	201.06	237.5	35000	N	BSL	
	86-74-8	CARBAZOLE	350	350	ug/kg	MY05SS12(0-0.5)	1/25	204.90	350	NA	Y	NTX	
	206-44-0	FLUORANTHENE	200	2400	ug/kg	MY05SS12(0-0.5)	4/25	285.67	2400	230000	N	BSL	
	86-73-7	FLUORENE	200	200	ug/kg	MY05SS12(0-0.5)	1/25	199.13	200	270000	N	BSL	
	85-01-8	PHENANTHRENE	202.5	1800	ug/kg	MY05SS12(0-0.5)	2/25	260.96	1800	NA	Y	NTX	
	129-00-0	PYRENE	210	2200	ug/kg	MY05SS12(0-0.5)	5/25	281.83	2200	230000	N	BSL	
	78-93-3	2-BUTANONE	39	160	ug/kg	MY05SB46(0-0.5)	2/15	19.13	160	730000	N	BSL	
	67-64-1	ACETONE	21	26.25	ug/kg	MY05SB50 & SB58(0-0.5)	2/23	11.16	26.25	160000	N	BSL	
	108-88-3	TOLUENE	2.75	2.75	ug/kg	MY05SS111 & SS150(0-0.5)	1/24	3.27	2.75	52000	N	BSL	
	79-01-6	TRICHLOROETHENE	5	5	ug/kg	MY05SB42(0-0.5)	1/24	3.34	5	53	N	BSL	
	Surface and Subsurface Soils												
	Metals	7429-90-5	ALUMINUM	8025	29000	mg/kg	MY05SB44(4.7-6.7)	49/49	18256.63	29000	7600	Y	ASL
		7440-36-0	ANTIMONY	0.02	2.2	mg/kg	MY05TP113(7-9)	12/29	0.31	2.2	3.1	N	BSL
7440-38-2		ARSENIC	3.5	16.2	mg/kg	MY05SB46(4-6)	49/49	11.01	16.2	0.39	Y	ASL	
7440-39-3		BARIIUM	31.85	118	mg/kg	MY05TP107A(9-11)	49/49	74.19	118	540	N	BSL	
7440-41-7		BERYLLIUM	0.275	1.1	mg/kg	MY05SS107(0-0.5)	34/49	0.61	1.1	150	N	BSL	
7440-42-8		BORON	0.46	23.4	mg/kg	MY05TP107A(9-11)	32/49	4.71	23.4	1600	N	BSL	
7440-43-9		CADMIUM	0.03	1.6	mg/kg	MY05TP111A(9-11)	31/49	0.27	1.6	3.7	N	BSL	
7440-70-2		CALCIUM	1192.5	32100	mg/kg	MY05TP107A(9-11)	49/49	3664.54	32100	NA	N	NUT	
7440-47-3		CHROMIUM	21.1	162	mg/kg	MY05TP107A(9-11)	46/49	43.27	162	10000	N	BSL	
7440-48-4		COBALT	4.75	18.35	mg/kg	MY05SB50 & SB58(0-0.5)	49/49	11.59	18.35	90	N	BSL	
7440-50-8		COPPER	11.2	92.7	mg/kg	MY05TP113(7-9)	49/49	26.00	92.7	310	N	BSL	
7439-89-6		IRON	10540	42600	mg/kg	MY05TP107A(9-11)	49/49	28876.33	42600	2300	Y	ASL	
7439-92-1		LEAD	4.7	396	mg/kg	MY05TP107A(9-11)	49/49	21.28	396	40	Y	ASL	

Table 5-1E
Occurrence, Distribution and Selection of COPCs
345 kV Transmission Line Area

Medium	CAS No.	Chemical	Minimum Conc.	Maximum Conc.	Units	Location of Maximum	Detection Frequency	Average Concentration	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
PCBs	7439-95-4	MAGNESIUM	3045	12000	mg/kg	MY05SB44(14-16)	49/49	7170.92	12000	NA	N	NUT	
	7439-96-5	MANGANESE	194	1300	mg/kg	MY05SB50 & SB58(0-0.5)	49/49	505.74	1300	180	Y	ASL	
	7439-97-6	MERCURY	0.0075	0.06	mg/kg	MY05SB23(0-0.5), SS108(0-0.5), SB23(0-0.5)	12/49	0.01	0.06	2.3	N	BSL	
	7439-98-7	MOLYBDENUM	0.67	1.2	mg/kg	MY05SB44(4.7-6.7)	14/49	1.14	1.2	39	N	BSL	
	7440-02-0	NICKEL	11.45	153	mg/kg	MY05TP129(7-9)	49/49	38.48	153	160	N	BSL	
	7440-09-7	POTASSIUM	1645	8470	mg/kg	MY05SB44(14-16)	49/49	4338.57	8470	NA	N	NUT	
	7782-49-2	SELENIUM	0.215	1.3	mg/kg	MY05TP116(6-8)	6/49	0.38	1.3	39	N	BSL	
	7440-22-4	SILVER	0.04	0.85	mg/kg	MY05TP110A(7-9)	17/49	0.19	0.85	39	N	BSL	
	7440-23-5	SODIUM	95.5	1480	mg/kg	MY05SB52(14-16)	39/49	292.77	1480	NA	Y	NTX	
	7440-28-0	THALLIUM	0.105	1.3	mg/kg	MY05SS114(0-0.5)	10/49	0.42	1.3	0.52	Y	ASL	
	7440-62-2	VANADIUM	17.35	62.65	mg/kg	MY05SB50 & SB58(0-0.5)	49/49	41.33	62.65	55	Y	ASL	
	7440-66-6	ZINC	26.3	302	mg/kg	MY05TP113(7-9)	49/49	83.14	302	2300	N	BSL	
	53469-21-9		PCB-1242	24	98	ug/kg	MY05TP111A(9-11)	2/49	10.93				
	11097-69-1		PCB-1254	27	130	ug/kg	MY05TP111A(9-11)	3/49	12.45				
	11096-82-5		PCB-1260	49	75	ug/kg	MY05TP111A(9-11)	3/49	11.83				
Pesticides		Total PCBs		303	ug/kg				303	220	Y	ASL	
	309-00-2	ALDRIN	4.1	4.1	ug/kg	MY05TP113(7-9)	1/49	1.10	4.1	29	N	BSL	
SVOCs	60-57-1	DIELDRLIN	4.5	7	ug/kg	MY05TP107A(9-11)	2/49	2.15	7	30	N	BSL	
	106-44-5	4-METHYLPHENOL	470	470	ug/kg	MY05TP118(13-15)	1/48	206.68	470	31000	N	BSL	
	120-12-7	ANTHRACENE	440	440	ug/kg	MY05SS12(0-0.5)	1/48	206.28	440	2200000	N	BSL	
	56-55-3	BENZO(A)ANTHRACENE	207.5	1100	ug/kg	MY05SS12(0-0.5)	4/48	223.37					
	50-32-8	BENZO(A)PYRENE	217.5	860	ug/kg	MY05SS12(0-0.5)	5/48	233.37					
	205-99-2	BENZO(B)FLUORANTHENE	202.5	1100	ug/kg	MY05SS12(0-0.5)	5/48	240.61					
	207-08-9	BENZO(K)FLUORANTHENE	350	560	ug/kg	MY05TP107A(9-11)	4/48	219.64					
	218-01-9	CHRYSENE	212.5	1000	ug/kg	MY05SS12(0-0.5)	3/48	220.92					
	53-70-3	DIBENZO(A,H)ANTHRACENE	420	420	ug/kg	MY05TP111A(9-11)	1/48	205.77					
	193-39-5	INDENO(1,2,3-CD)PYRENE	360	560	ug/kg	MY05TP107A(9-11)	4/48	220.87					
		BENZO(A)PYRENE equivalent		1557	ug/kg				1557	62	Y	ASL	
	191-24-2	BENZO(G,H,I)PERYLENE	310	490	ug/kg	MY05TP107A(9-11)	4/48	215.56	490	NA	Y	NTX	
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	232.5	1100	ug/kg	MY05TP111A(9-11)	3/48	222.09	1100	35000	N	BSL	
	86-74-8	CARBAZOLE	350	350	ug/kg	MY05SS12(0-0.5)	1/48	204.44	350	NA	Y	NTX	
	206-44-0	FLUORANTHENE	200	2400	ug/kg	MY05SS12(0-0.5)	7/48	269.85	2400	230000	N	BSL	
86-73-7	FLUORENE	200	200	ug/kg	MY05SS12(0-0.5)	1/48	201.38	200	270000	N	BSL		
85-01-8	PHENANTHRENE	202.5	1800	ug/kg	MY05SS12(0-0.5)	5/48	244.90	1800	NA	Y	NTX		
129-00-0	PYRENE	210	2200	ug/kg	MY05SS12(0-0.5)	8/48	257.40	2200	230000	N	BSL		
VOCs	78-93-3	2-BUTANONE	35	160	ug/kg	MY05SB46(0-0.5)	3/37	11.94	160	730000	N	BSL	
	67-64-1	ACETONE	5	93	ug/kg	MY05TP118(13-15)	10/53	15.10	93	160000	N	BSL	
	67-66-3	CHLOROFORM	3	3	ug/kg	MY05SB48(8-10)	1/56	3.12	3	360	N	BSL	
	100-41-4	ETHYLBENZENE	3	3	ug/kg	MY05TP118(13-15)	1/56	3.11	3	8900	N	BSL	
	75-09-2	METHYLENE CHLORIDE	4	4	ug/kg	MY05TP118(13-15)	1/56	6.22	4	9100	N	BSL	
	108-88-3	TOLUENE	2.75	76	ug/kg	MY05TP118(13-15)	7/56	4.68	76	52000	N	BSL	
	79-01-6	TRICHLOROETHENE	5	5	ug/kg	MY05SB42(0-0.5), MY05TP115(7-9) & TP136	2/56	3.20	5	53	N	BSL	
	75-01-4	VINYL CHLORIDE	10	26.5	ug/kg	MY05TP115(7-9) & TP136	3/56	6.71	26.5	79	N	BSL	

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

¹ - USEPA Region 9 Soil PRGs modified to an HI = 0.1. Same units as reported concentration

COPC - Compounds of Potential Concern

J - estimated concentration

Conc. - Concentration

BSL - Below Screening Level

ASL - Above Screening Level

NUT - Essential Nutrient

NTX - Insufficient toxicity information

Y - Yes

N - No

Table 5-1F
Occurrence, Distribution and Selection of COPCs
Bailey Farmhouse

Medium	CAS No.	Chemical	Minimum Conc.	Maximum Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
Surface Soils												
Metals	7429-90-5	ALUMINUM	23200	23200	mg/kg	MY05SB25(0-0.5)	1/1	23200	23200	7600	Y	ASL
	7440-36-0	ANTIMONY	0.08	0.08	mg/kg	MY05SB25(0-0.5)	1/1	0.08	0.08	3.1	N	BSL
	7440-38-2	ARSENIC	7.2	7.2	mg/kg	MY05SB25(0-0.5)	1/1	7.2	7.2	0.39	Y	ASL
	7440-39-3	BARIUM	100	100	mg/kg	MY05SB25(0-0.5)	1/1	100	100	540	N	BSL
	7440-41-7	BERYLLIUM	0.75	0.75	mg/kg	MY05SB25(0-0.5)	1/1	0.75	0.75	150	N	BSL
	7440-43-9	CADMIUM	0.24	0.24	mg/kg	MY05SB25(0-0.5)	1/1	0.24	0.24	3.7	N	BSL
	7440-70-2	CALCIUM	2290	2290	mg/kg	MY05SB25(0-0.5)	1/1	2290	2290	NA	N	NUT
	7440-47-3	CHROMIUM	40.5	40.5	mg/kg	MY05SB25(0-0.5)	1/1	40.5	40.5	10000	N	BSL
	7440-48-4	COBALT	10.6	10.6	mg/kg	MY05SB25(0-0.5)	1/1	10.6	10.6	90	N	BSL
	7440-50-8	COPPER	48.9	48.9	mg/kg	MY05SB25(0-0.5)	1/1	48.9	48.9	310	N	BSL
	7439-89-6	IRON	24300	24300	mg/kg	MY05SB25(0-0.5)	1/1	24300	24300	2300	Y	ASL
	7439-92-1	LEAD	62.2	62.2	mg/kg	MY05SB25(0-0.5)	1/1	62.2	62.2	40	Y	ASL
	7439-95-4	MAGNESIUM	5610	5610	mg/kg	MY05SB25(0-0.5)	1/1	5610	5610	NA	N	NUT
	7439-96-5	MANGANESE	522	522	mg/kg	MY05SB25(0-0.5)	1/1	522	522	180	Y	ASL
	7439-97-6	MERCURY	0.51	0.51	mg/kg	MY05SB25(0-0.5)	1/1	0.51	0.51	2.3	N	BSL
	7440-02-0	NICKEL	28.7	28.7	mg/kg	MY05SB25(0-0.5)	1/1	28.7	28.7	160	N	BSL
	7440-09-7	POTASSIUM	2270	2270	mg/kg	MY05SB25(0-0.5)	1/1	2270	2270	NA	N	NUT
	7440-23-5	SODIUM	141	141	mg/kg	MY05SB25(0-0.5)	1/1	141	141	NA	Y	NTX
7440-62-2	VANADIUM	39.1	39.1	mg/kg	MY05SB25(0-0.5)	1/1	39.1	39.1	55	N	BSL	
7440-66-6	ZINC	154	154	mg/kg	MY05SB25(0-0.5)	1/1	154	154	2300	N	BSL	
Surface and Subsurface Soils												
Metals	7429-90-5	ALUMINUM	8320	23200	mg/kg	MY05SB25(0-0.5)	3/3	14606.67	23200	7600	Y	ASL
	7440-36-0	ANTIMONY	0.08	0.08	mg/kg	MY05SB25(0-0.5)	1/3	0.03	0.08	3.1	N	BSL
	7440-38-2	ARSENIC	6.4	8.2	mg/kg	MY05SB25(2-8)	3/3	7.27	8.2	0.39	Y	ASL
	7440-39-3	BARIUM	30.9	100	mg/kg	MY05SB25(0-0.5)	3/3	58.63	100	540	N	BSL
	7440-41-7	BERYLLIUM	0.4	0.75	mg/kg	MY05SB25(0-0.5)	3/3	0.55	0.75	150	N	BSL
	7440-43-9	CADMIUM	0.24	0.24	mg/kg	MY05SB25(0-0.5)	1/3	0.09	0.24	3.7	N	BSL
	7440-70-2	CALCIUM	615	2290	mg/kg	MY05SB25(0-0.5)	3/3	1218.33	2290	NA	N	NUT
	7440-47-3	CHROMIUM	13.9	40.5	mg/kg	MY05SB25(0-0.5)	3/3	25.30	40.5	10000	N	BSL
	7440-48-4	COBALT	4.9	10.6	mg/kg	MY05SB25(0-0.5)	3/3	7.30	10.6	90	N	BSL
	7440-50-8	COPPER	10.2	48.9	mg/kg	MY05SB25(0-0.5)	3/3	24.67	48.9	310	N	BSL
	7439-89-6	IRON	10900	24300	mg/kg	MY05SB25(0-0.5)	3/3	16600.00	24300	2300	Y	ASL
	7439-92-1	LEAD	4.2	62.2	mg/kg	MY05SB25(0-0.5)	3/3	25.13	62.2	40	Y	ASL

Table 5-1F
Occurrence, Distribution and Selection of COPCs
Bailey Farmhouse

Medium	CAS No.	Chemical	Minimum Conc.	Maximum Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
PCBs	7439-95-4	MAGNESIUM	2610	5610	mg/kg	MY05SB25(0-0.5)	3/3	3933.33	5610	NA	N	NUT	
	7439-96-5	MANGANESE	246	522	mg/kg	MY05SB25(0-0.5)	3/3	348.00	522	180	Y	ASL	
	7439-97-6	MERCURY	0.06	0.51	mg/kg	MY05SB25(0-0.5)	2/3	0.19	0.51	2.3	N	BSL	
	7440-02-0	NICKEL	11.7	28.7	mg/kg	MY05SB25(0-0.5)	3/3	19.03	28.7	160	N	BSL	
	7440-09-7	POTASSIUM	1490	2270	mg/kg	MY05SB25(0-0.5)	3/3	1940.00	2270	NA	N	NUT	
	7440-23-5	SODIUM	107	141	mg/kg	MY05SB25(0-0.5)	3/3	119.00	141	NA	Y	NTX	
	7440-62-2	VANADIUM	16.4	39.1	mg/kg	MY05SB25(0-0.5)	3/3	26.20	39.1	55	N	BSL	
	7440-66-6	ZINC	23.4	154	mg/kg	MY05SB25(0-0.5)	3/3	71.27	154	2300	N	BSL	
	11096-82-5	PCB-1260	37	59	ug/kg	MY05TP102(4-5)	3/6	27.17					
		Total PCBs		59	ug/kg				59	220	N	BSL	
VOCs	78-93-3	2-BUTANONE	43	43	ug/kg	MY05TP101(4-4.5)	1/4	15.38	43	730000	N	BSL	
	67-64-1	ACETONE	140	140	ug/kg	MY05TP101(4-4.5)	1/6	33.92	140	160000	N	BSL	
	75-09-2	METHYLENE CHLORIDE	16	23	ug/kg	MY05TP102(4-5)	3/6	12.67	23	9100	N	BSL	

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

1 - USEPA Region 9 Soil PRGs modified to an HI = 0.1. Same units as reported concentrations

COPC - Compounds of Potential Concern

J - estimated concentration

Conc. - Concentration

BSL - Below Screening Level

ASL - Above Screening Level

NUT - Essential Nutrient

NTX - Insufficient toxicity information

Y - Yes

N - No

Table 5-1G
Occurrence, Distribution and Selection of COPCs
ISFSI

Medium	CAS No.	Chemical	Min. Conc.	Max. Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
Soils													
METALS	7440-38-2	ARSENIC	7.9	8.1	mg/kg	Trench Sample 2	2/2	8	NA	8.1	0.039	Y	ASL
	7440-39-3	BARIUM	50	58	mg/kg	Trench Sample 3	2/2	54	NA	58	540	N	BSL
	7440-47-3	CHROMIUM	25	36	mg/kg	Trench Sample 3	2/2	30.5	NA	36	10000	N	BSL
	7439-92-1	LEAD	6.8	8.9	mg/kg	Trench Sample 2	2/2	7.85	NA	8.9	40	N	BSL
	7439-97-6	MERCURY	0.038	0.038	mg/kg	Trench Sample 3	1/2	NA	NA	0.038	2.3	N	BSL
SVOCs	50-32-8	BENZO(A)PYRENE	0.21	0.21	ug/kg	MY04SS01	1/2	0.19	0.22				
	205-99-2	BENZO(B)FLUORANTHENE	0.39	0.39	ug/kg	MY04SS01	1/2	0.28	0.44				
	218-01-9	CHRYSENE	0.16	0.16	ug/kg	MY04SS01	1/2	0.16	0.17				
		BENZO(A)PYRENE equivalent		0.25	ug/kg					0.25	62	N	BSL
	191-24-2	BENZO(G,H,I)PERYLENE	0.14	0.14	ug/kg	MY04SS01	1/2	0.15	0.17	0.14	NA	Y	NTX
	206-44-0	FLUORANTHENE	0.185	0.49	ug/kg	MY04SS01	2/2	0.34	0.55	0.49	230000	N	BSL
	86-30-6	N-NITROSODIPHENYLAMINE	0.19	0.19	ug/kg	MY04SS02	1/2	0.18	0.20	0.19	9900	N	BSL
	129-00-0	PYRENE	0.185	0.48	ug/kg	MY04SS01	2/2	0.33	0.54	0.48	230000	N	BSL

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

¹ - USEPA Region 9 Soil PRGs modified to an HI = 0.1. Same units as reported concentrations

COPC - Compounds of Potential Concern

Conc. - Concentration

Min. - Minimum

Max - Maximum

BSL - Below Screening Level

ASL - Above Screening Level

NTX - No Toxicity Information

Y - Yes

N - No

Table 5-1H
Occurrence, Distribution and Selection of COPCs
Sediments

Medium	CAS No.	Chemical	Min. Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Concentration	95% UCL Concentration	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
Sediment													
Metals	7429-90-5	ALUMINUM	4870	20600	mg/kg	MY06SD03	33/33	11926	13505	20600	7600	Y	ASL
	7440-36-0	ANTIMONY	0.01 J	0.08 J	mg/kg	MY06SD16	29/30	0.033	0.038	0.08 J	3.1	N	BSL
	7440-38-2	ARSENIC	2.9	15.6	mg/kg	MY06SD05	33/33	7.72	8.79	15.6	0.39	Y	ASL
	7440-39-3	BARIUM	15.9	57.8	mg/kg	MY06SD28	33/33	34.30	38.08	57.8	540	N	BSL
	7440-41-7	BERYLLIUM	0.18	0.89	mg/kg	MY06SD03	33/33	0.471	0.540	0.89	150	N	BSL
	7440-42-8	BORON	5	38.3	mg/kg	MY06SD05	33/33	18.5	22.0	38.3	1600	N	BSL
	7440-43-9	CADMIUM	0.04	0.29	mg/kg	MY06SD05	32/33	0.13	0.15	0.29	3.7	N	BSL
	7440-70-2	CALCIUM	1340 J	16500 J	mg/kg	MY06SD30	33/33	3342	4372	16500 J	NA	N	NUT
	7440-47-3	CHROMIUM	12.4	58.1	mg/kg	MY06SD03	33/33	33	37	58.1	10000	N	BSL
	7440-48-4	COBALT	3.1	10.7	mg/kg	MY06SD28	33/33	6.77	7.46	10.7	90	N	BSL
	7440-50-8	COPPER	4.4	24.7	mg/kg	MY06SD16	33/33	13.35	15.37	24.7	310	N	BSL
	7439-89-6	IRON	7600	29700	mg/kg	MY06SD05	33/33	18602	20978	29700	2300	Y	ASL
	7439-92-1	LEAD	4.6	32.6	mg/kg	MY06SD03	33/33	15.45	18.15	32.6	40	N	BSL
	7439-95-4	MAGNESIUM	2690	9430	mg/kg	MY06SD17	33/33	5747	6431	9430	NA	N	NUT
	7439-96-5	MANGANESE	113	306	mg/kg	MY06SD28	33/33	207	228	306	180	Y	ASL
	7439-97-6	MERCURY	0.055	0.34 J	mg/kg	MY06SD05, MY06SD06	19/33	0.10	0.13	0.34 J	2.3	N	BSL
	7439-98-7	MOLYBDENUM	0.26	1.75	mg/kg	MY06SD04&SD40	30/33	0.89	1.02	1.75	39	N	BSL
	7440-02-0	NICKEL	6.7	29.7	mg/kg	MY06SD04A	33/33	18.17	20.60	29.7	160	N	BSL
	7440-09-7	POTASSIUM	1610	5950	mg/kg	MY06SD17	33/33	3383	3789	5950	NA	N	NUT
	7782-49-2	SELENIUM	0.57 J	0.73 J	mg/kg	MY06SD05	4/33	0.31	0.36	0.73 J	39	N	BSL
	7440-22-4	SILVER	0.02 J	0.18	mg/kg	MY06SD03, MY06SD06	31/33	0.08	0.10	0.18	39	N	BSL
	7440-23-5	SODIUM	2800	15300	mg/kg	MY06SD17	33/33	6708	7935	15300	NA	Y	NTX
	7440-28-0	THALLIUM	0.09	0.3	mg/kg	MY06SD07	19/33	0.15	0.18	0.3	0.52	N	BSL
7440-62-2	VANADIUM	13.4	51.8	mg/kg	MY06SD17	33/33	32	36	51.8	55	N	BSL	
7440-66-6	ZINC	22.2	195	mg/kg	MY06SD16	33/33	63	74	195	2300	N	BSL	
PCB Congeners	NA	Dichlorobiphenyls	1.1	2.2	ug/kg	MY06SD08&SD38	3/6	0.98	1.62	2.2	NA	N	NTX
	NA	Heptachlorobiphenyls	1.5	4.2	ug/kg	MY06SD04A	5/6	2.20	3.34	4.2	NA	N	NTX
	NA	Hexachlorobiphenyls	3	9.2	ug/kg	MY06SD16A	6/6	5.43	7.51	9.2	NA	N	NTX
	NA	Nonachlorobiphenyls	0.22 J	0.22 J	ug/kg	MY06SD04A	1/6	0.28	0.31	0.22 J	NA	N	NTX
	NA	Octachlorobiphenyls	0.67	1.9	ug/kg	MY06SD20A&SD41	2/6	0.61	1.13	1.9	NA	N	NTX
	NA	Pentachlorobiphenyls	8.7	17	ug/kg	MY06SD16A	4/6	8.9	13.3	17	NA	N	NTX
	NA	Tetrachlorobiphenyls	1.7	10	ug/kg	SD04A, MY06SD20A&	5/6	5.1	8.4	10	NA	N	NTX
	NA	Trichlorobiphenyls	0.96 J	2.5	ug/kg	MY06SD20A&SD41	2/6	1.15	1.69	2.5	NA	N	NTX
	50-29-3	4,4'-DDT	8.35 J	12	ug/kg	MY06SD16A	2/33	3.28	3.95	12	1700	N	BSL
Pesticides	7421-93-4	ENDRIN ALDEHYDE	7.125 J	7.125 J	ug/kg	MY06SD20A&SD41	1/33	2.94	3.29	7.125 J	NA	N	IFD
	76-44-8	HEPTACHLOR	2.1 J	2.1 J	ug/kg	MY06SD20A&SD41	1/33	1.47	1.59	2.1 J	110	N	BSL
SVOCs	91-57-6	2-METHYLNAPHTHALENE	0.8 J	2300 J	ug/kg	MY06SD101A(0-3.5)	30/64	279	410	2300 J	NA	Y	TX
	83-32-9	ACENAPHTHENE	3 J	3000	ug/kg	MY06SD110(0-3.5)	32/64	421	599	3000	370000	N	BSL
	208-96-8	ACENAPHTHYLENE	1 J	25 J	ug/kg	MY06SD116&SD117	6/64	184	276	25 J	NA	Y	NTX
	120-12-7	ANTHRACENE	8 J	5800	ug/kg	MY06SD101A(0-3.5)	45/64	885	1264	5800	2200000	N	BSL
	56-55-3	BENZO(A)ANTHRACENE	47	14000 J	ug/kg	MY06SD16A	61/64	1857	2630				
	50-32-8	BENZO(A)PYRENE	24	10000	ug/kg	MY06SD101A(0-3.5)	61/64	1576	2210				
	205-99-2	BENZO(B)FLUORANTHENE	28	14000	ug/kg	MY06SD101A(0-3.5)	61/64	2016	2830				
	207-08-9	BENZO(K)FLUORANTHENE	12 J	5100	ug/kg	MY06SD101A(0-3.5)	61/64	806	1100				
	218-01-9	CHRYSENE	32 J	12000	ug/kg	MY06SD101A(0-3.5)	62/65	1725	2000				
	53-70-3	DIBENZO(A,H)ANTHRACENE	3 J	3400	ug/kg	101A(0-3.5), MY06SD10	37/64	509	729				
	193-39-5	INDENO(1,2,3-CD)PYRENE	17 J	6700	ug/kg	MY06SD101A(0-3.5)	60/63	1004	1410				
	BENZO(A)PYRENE equivalent		17041	ug/kg				3639	17041	62	Y	ASL	

Table 5-1H
Occurrence, Distribution and Selection of COPCs
Sediments

Medium	CAS No.	Chemical	Min. Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Concentration	95% UCL Concentration	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
Sediment													
	191-24-2	BENZO[G,H,I]PERYLENE	10 J	6000	ug/kg	MY06SD101A(0-3.5)	61/64	894	1257	6000	NA	Y	NTX
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	280 J	280 J	ug/kg	MY06SD26	1/33	281	304	280 J	35000	N	BSL
	86-74-8	CARBAZOLE	420 J	3800	ug/kg	MY06SD16	5/33	469	690	3800	NA	Y	NTX
	132-64-9	DIBENZOFURAN	280 J	1900	ug/kg	MY06SD16	4/33	353	453	1900	29000	N	BSL
	131-11-3	DIMETHYL PHTHALATE	520	520	ug/kg	MY06SD16A	1/33	288	315	520	10000000	N	BSL
	206-44-0	FLUORANTHENE	29	26000	ug/kg	MY06SD101A(0-3.5)	61/64	4114	5841	26000	230000	N	BSL
	86-73-7	FLUORENE	5 J	3300	ug/kg	MY06SD110(0-3.5)	35/64	509	719	3300	270000	N	BSL
	91-20-3	NAPHTHALENE	1 J	965 J	ug/kg	Y06SD104(0-3.5)&SD10	29/64	208	303	965 J	5600	N	BSL
	85-01-8	PHENANTHRENE	27 J	28000	ug/kg	MY06SD101A(0-3.5)	61/64	3845	5530	28000	NA	Y	NTX
	129-00-0	PYRENE	52	36000 J	ug/kg	MY06SD101A(0-3.5)	61/64	4114	5966	36000 J	230000	N	BSL
VOCS	75-09-2	METHYLENE CHLORIDE	210 J	390 J	ug/kg	MY06SD10	4/33	248	281	390 J	9100	N	BSL

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

1 - USEPA Region 9 Soil PRGs modified to an HI = 0.1. Same units as reported concentration.

COPC - Compounds of Potential Concern

J - estimated concentration

Conc. - Concentration

Min. - Minimum

Maax. - Maximum

BSL - Below Screening Level

ASL - Above Screening Level

NUT - Essential Nutrient

NTX - Insufficient toxicity information

IFD - Detected in less than 5% of samples

TX - toxicity information is available to evaluate risks

Y - Yes

N - No

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale		
Tissue/Mussel															
Metals	7429-90-5	ALUMINUM	53.4 J	155 J	mg/kg	MY06BM08	14/14	90.257	107.193	155 J	140	Y	ASL		
	7440-38-2	ARSENIC	0.72	1.39	mg/kg	MY06BM03	14/14	1.123	1.223	1.39	0.0014	Y	ASL		
	7440-39-3	BARium	0.31 J	0.84 J	mg/kg	MY06BM08	14/14	0.505	0.592	0.84 J	9.5	N	BSL		
	7440-41-7	BERYLLIUM	0.005 J	0.008 J	mg/kg	MY06BM04 & BM08	5/14	0.004	0.005	0.008 J	0.27	N	BSL		
	7440-42-8	BORON	3.77	4.805	mg/kg	MY06BM11 & BM14	14/14	4.293	4.446	4.805	12	N	BSL		
	7440-43-9	CADMIUM	0.164	0.317	mg/kg	MY06BM03	14/14	0.240	0.263	0.317	0.22	Y	ASL		
	7440-70-2	CALCIUM	537 J	1460 J	mg/kg	MY06BM07	14/14	814.964	945.674	1460 J	NA	N	NUT		
	7440-47-3	CHROMIUM	0.29	1.99	mg/kg	MY06BM10	14/14	0.607	0.835	1.99	200	N	BSL		
	7440-48-4	COBALT	0.072	0.13	mg/kg	MY06BM03	14/14	0.099	0.109	0.13	2.7	N	BSL		
	7440-50-8	COPPER	0.86 J	4.04 J	mg/kg	MY06BM13	14/14	1.750	2.217	4.04 J	5.4	N	BSL		
	7439-89-6	IRON	68 J	195 J	mg/kg	MY06BM05	14/14	132.429	154.852	195 J	41	Y	ASL		
	7439-92-1	LEAD	0.168	0.364	mg/kg	MY06BM12	14/14	0.256	0.289	0.364	NA	Y	NTX		
	7439-95-4	MAGNESIUM	596	818	mg/kg	MY06BM04	14/14	701.786	736.272	818	NA	N	NUT		
	7439-96-5	MANGANESE	2	9 J	mg/kg	MY06BM04	14/14	3.837	4.705	9 J	30.2	N	BSL		
	7439-97-6	MERCURY	0.04	0.06 J	mg/kg	BM06, BM11&BM14	14/14	0.050	0.055	0.06 J	NA	Y	NTX		
	7439-98-7	MOLYBDENUM	0.09 J	0.22	mg/kg	MY06BM03, BM11&BM15	14/14	0.149	0.170	0.22	0.68	N	BSL		
	7440-02-0	NICKEL	0.19	0.98	mg/kg	MY06BM12	14/14	0.360	0.469	0.98	4.3	N	BSL		
	7440-09-7	POTASSIUM	1050	1680	mg/kg	MY06BM11 & BM14	14/14	1440.000	1530.192	1680	NA	N	NUT		
	7782-49-2	SELENIUM	0.28 J	0.52 J	mg/kg	MY06BM03, BM08	14/14	0.421	0.460	0.52 J	0.675	N	BSL		
	7440-22-4	SILVER	0.005 J	0.011	mg/kg	MY06BM08	12/14	0.007	0.008	0.011	1.1	N	BSL		
	7440-23-5	SODIUM	4140	5570	mg/kg	MY06BM04	14/14	4842.143	5078.825	5570	NA	Y	NTX		
	7440-62-2	VANADIUM	0.22 J	0.52 J	mg/kg	MY06BM05	14/14	0.377	0.433	0.52 J	0.6	N	BSL		
	7440-66-6	ZINC	6.89	13.2 J	mg/kg	MY06BM12	14/14	10.154	11.247	13.2 J	65	N	BSL		
	Pesticides	72-54-8	4,4'-DDD	0.13 J	0.3 J	ug/kg	MY06BM08	14/14	0.199	0.224	0.3 J	6.4	N	BSL	
		72-55-9	4,4'-DDE	0.36 J	0.76	ug/kg	MY06BM07	14/14	0.569	0.629	0.76	6.4	N	BSL	
		50-29-3	4,4'-DDT	0.021 J	0.048 J	ug/kg	MY06BM06	11/14	0.059	0.086	0.048 J	6.4	N	BSL	
		5103-71-9	ALPHA-CHLORDANE	0.13 J	0.23 J	ug/kg	MY06BM11 & BM14	14/14	0.179	0.195	0.23 J	1.7	N	BSL	
		319-84-6	ALPHA-HEXACHLOROCYCLOHEXANE	0.017 J	0.039 J	ug/kg	MY06BM07	13/14	0.035	0.053	0.039 J	0.5	Y	NTX	
		319-85-7	BETA-HEXACHLOROCYCLOHEXANE	0.058J	0.058J	ug/kg	MY06BM11	1/14	0.174	0.194	0.058J	NA	Y	NTX	
		60-57-1	DIELDRIN	0.045 J	0.07 J	ug/kg	MY06BM05	14/14	0.057	0.061	0.07 J	0.14	N	BSL	
		33213-65-9	ENDOSULFAN II	0.12 J	0.14 J	ug/kg	MY06BM05	3/14	0.173	0.189	0.14 J	NA	Y	NTX	
		1031-07-8	ENDOSULFAN SULFATE	0.039	0.061 J	ug/kg	MY06BM07	11/14	0.075	0.103	0.061 J	NA	Y	NTX	
		53494-70-5	ENDRIN KETONE	0.3 J	0.63	ug/kg	MY06BM13, BM15	12/14	0.413	0.489	0.63	NA	Y	NTX	
		5103-74-2	GAMMA-CHLORDANE	0.046 J	0.081 J	ug/kg	MY06BM10	13/14	0.073	0.091	0.081 J	1.7	N	BSL	
		1024-57-3	HEPTACHLOR EPOXIDE	0.014 J	0.015 J	ug/kg	MY06BM10, BM14	2/14	0.153	0.188	0.015 J	0.24	N	BSL	
		58-89-9	LINDANE	0.023 J	0.045 J	ug/kg	MY06BM08	14/14	0.032	0.036	0.045 J	0.17	N	BSL	
		SVOCs	606-20-2	2,6-DINITROTOLUENE	1.4	1.4	mg/kg	MY06BM15	1/14	0.743	0.853	1.4	140	N	BSL
			91-57-6	2-METHYLNAPHTHALENE	0.0025 J	0.0025 J	mg/kg	MY06BM04	1/14	0.639	0.747	0.0025 J	NA	Y	NTX
			83-32-9	ACENAPHTHENE	1.1 J	1.1 J	ug/kg	MY06BM04	1/14	0.896	0.972	1.1 J	8100	N	BSL
			208-96-8	ACENAPHTHYLENE	0.22 J	0.39 J	ug/kg	MY06BM11 & BM14	14/14	0.305	0.332	0.39 J	NA	Y	NTX
			120-12-7	ANTHRACENE	0.3 J	2.4 J	ug/kg	MY06BM04	14/14	0.563	0.844	2.4 J	41000	N	BSL
			56-55-3	BENZO(A)ANTHRACENE	1 J	6.7	ug/kg	BM01&BM04	14/14	1.614	2.013				
			50-32-8	BENZO(A)PYRENE	0.6 J	6	ug/kg	BM01&BM04	14/14	1.074	1.454				
			205-99-2	BENZO(B)FLUORANTHENE	1.8	9.5	ug/kg	BM01&BM04	14/14	2.789	3.359				
			207-08-9	BENZO(K)FLUORANTHENE	0.58 J	3.2	ug/kg	BM01&BM04	14/14	0.971	1.168				
			218-01-9	CHRYSENE	1.6 J	8.5	ug/kg	BM01&BM04	14/14	2.439	2.922				
	53-70-3		DIBENZO(A,H)ANTHRACENE	0.087 J	0.7	ug/kg	BM01&BM04	14/14	0.144	0.189					
193-39-5	INDENO(1,2,3-CD)PYRENE		0.53 J	4.2	ug/kg	BM01&BM04	14/14	0.902	1.160						
	BENZO(A)PYRENE equivalent			8.8	ug/kg					8.8	0.43	Y	ASL		
191-24-2	BENZO(G,H,I)PERYLENE	4.2	4.2	ug/kg	BM01&BM04	1/14	1.027	1.265	2.575	NA	Y	NTX			

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
	86-74-8	CARBAZOLE	0.017	0.017	mg/kg	BM01&BM04	1/14	0.663	0.732	0.3335 J	160	N	BSL	
	132-64-9	DIBENZOFURAN	0.0054	0.0054	mg/kg	BM01&BM04	1/14	0.663	0.733	0.3277 J	270	N	BSL	
	206-44-0	FLUORANTHENE	3.2	18	ug/kg	BM01&BM04	14/14	5.082	6.109	11.15	5400	N	BSL	
	86-73-7	FLUORENE	0.37 J	1.2	ug/kg	BM01&BM04	2/14	0.882	0.976	1.075 J	5400	N	BSL	
	78-59-1	ISOPHORONE	0.0091 J	0.037 J	mg/kg	MY06BM08	14/14	0.023	0.027	0.037 J	330	N	BSL	
	85-01-8	PHENANTHRENE	1.2 J	11	ug/kg	BM01&BM04	4/14	1.455	2.173	5.975	NA	Y	NTX	
	129-00-0	PYRENE	3.4	15	ug/kg	BM01&BM04	14/14	4.975	5.806	9.75	4100	N	BSL	
Tissue/Clams														
Metals	7429-90-5	ALUMINUM	167	654 J	mg/kg	MY06BC01	18/18	332.5	394.99	654 J	140	Y	ASL	
	7440-36-0	ANTIMONY	0.007 J	0.03	mg/kg	MY06BC01	18/18	0.012	0.01	0.03	0.054	N	BSL	
	7440-38-2	ARSENIC	1.21	7.11	mg/kg	MY06BC01	18/18	2.817	3.52	7.11	0.0014	Y	ASL	
	7440-39-3	BARIUM	0.97	4.49	mg/kg	MY06BC01	18/18	2.034	2.46	4.49	9.5	N	BSL	
	7440-41-7	BERYLLIUM	0.01 J	0.043	mg/kg	MY06BC01 & BC17	18/18	0.021	0.03	0.043	0.27	N	BSL	
	7440-42-8	BORON	2.24	3.84	mg/kg	MY06BC01	18/18	2.970	3.14	3.84	12	N	BSL	
	7440-43-9	CADMIUM	0.028	0.063	mg/kg	MY06BC01	18/18	0.044	0.05	0.063	0.22	N	BSL	
	7440-70-2	CALCIUM	1470	5970	mg/kg	MY06BC01	18/18	2521.1	3023.89	5970	NA	N	NUT	
	7440-47-3	CHROMIUM	0.42	1.67	mg/kg	MY06BC01	18/18	0.87	1.03	1.67	200	N	BSL	
	7440-48-4	COBALT	0.161	1.12	mg/kg	MY06BC01	18/18	0.32	0.42	1.12	2.7	N	BSL	
	7440-50-8	COPPER	1.36 J	26.6 J	mg/kg	MY06BC16	18/18	6.75	10.30	26.6 J	5.4	Y	ASL	
	7439-89-6	IRON	310	2850	mg/kg	MY06BC01	18/18	1077.1	1413.25	2850	41	Y	ASL	
	7439-92-1	LEAD	0.381 J	1.96 J	mg/kg	MY06BC02	18/18	0.87	1.08	1.96 J	NA	Y	NTX	
	7439-95-4	MAGNESIUM	623	925	mg/kg	MY06BC04	18/18	832.4	868.30	925	NA	N	NUT	
	7439-96-5	MANGANESE	6 J	179 J	mg/kg	MY06BC01	18/18	25.2	43.38	179 J	30.2	Y	ASL	
	7439-97-6	MERCURY	0.02	0.06	mg/kg	MY06BC11	18/18	0.041	0.05	0.06	NA	Y	NTX	
	7439-98-7	MOLYBDENUM	0.21	0.45	mg/kg	MY06BC01	18/18	0.299	0.32	0.45	0.68	N	BSL	
	7440-02-0	NICKEL	0.42 J	3.14 J	mg/kg	MY06BC11	18/18	1.003	1.35	3.14 J	4.3	N	BSL	
	7440-09-7	POTASSIUM	1310	2210	mg/kg	MY06BC06	18/18	1665.0	1770.36	2210	NA	N	NUT	
	7782-49-2	SELENIUM	0.25 J	0.5 J	mg/kg	MY06BC01	18/18	0.4	0.40	0.5 J	0.675	N	BSL	
	7440-23-5	SODIUM	3760	5925	mg/kg	BC15&BC19	18/18	4928.6	5236.10	5925	NA	Y	NTX	
	7440-28-0	THALLIUM	0.005 J	0.006 J	mg/kg	MY06BC01, BC11, BC12	7/18	0.004	0.0043	0.006 J	0.01	N	BSL	
	7440-62-2	VANADIUM	0.73	4.77	mg/kg	MY06BC01	18/18	1.560	1.99	4.77	0.6	Y	ASL	
	7440-66-6	ZINC	9.38	28.1	mg/kg	MY06BC02	18/18	15.955	18.34	28.1	65	N	BSL	
	PCBs	11097-69-1	PCB 1254	0.975 J	3 J	ug/kg	MY06BC02	18/18	2.065	2.37				
		11096-82-5	PCB 1260	1.1 J	3.4	ug/kg	MY06BC03	18/18	2.169	2.46				
			Total PCBs		6.4					4.83	6.4	1.10	Y	ASL
	Pesticides	72-54-8	4,4'-DDD	0.032 J	0.1 J	ug/kg	MY06BC01	18/18	0.063	0.07	0.1 J	6.4	N	BSL
		72-55-9	4,4'-DDE	0.094 J	0.32 J	ug/kg	MY06BC06	18/18	0.209	0.24	0.32 J	6.4	N	BSL
		50-29-3	4,4'-DDT	0.01 J	0.11 J	ug/kg	MY06BC13, BC14	11/18	0.098	0.13	0.11 J	6.4	N	BSL
		5103-71-9	ALPHA-CHLORDANE	0.036 J	0.15 J	ug/kg	MY06BC02	17/18	0.098	0.11	0.15 J	1.7	N	BSL
		319-84-6	ALPHA-HEXACHLOROCYCLOHEXANE	0.012 J	0.0875 J	ug/kg	BC15&BC19	11/18	0.080	0.11	0.0875 J	NA	Y	NTX
319-85-7		BETA-HEXACHLOROCYCLOHEXANE	0.035 J	0.4	ug/kg	MY06BC12	8/18	0.159	0.19	0.4	NA	Y	NTX	
60-57-1		DIELDRIN	0.037 J	0.39 J	ug/kg	MY06BC01	18/18	0.089	0.13	0.39 J	0.14	Y	ASL	
959-998-8		ENDOSULFAN I	0.03 J	0.03 J	ug/kg	MY06BC03	1/18	0.169	0.19	0.03 J	NA	Y	ASL	
33213-65-9		ENDOSULFAN II	0.035 J	0.16 J	ug/kg	MY06BC06	4/18	0.155	0.19	0.16 J	NA	Y	NTX	
1031-07-8		ENDOSULFAN SULFATE	0.024 J	0.052 J	ug/kg	MY06BC06	17/18	0.043	0.06	0.052 J	NA	Y	NTX	
72-20-8		ENDRIN	0.03 J	0.03 J	ug/kg	MY06BC10	1/18	0.169	0.19	0.03 J	40	N	BSL	
7421-93-4		ENDRIN ALDEHYDE	0.048 J	0.18 J	ug/kg	MY06BC06	11/18	0.138	0.17	0.18 J	NA	Y	NTX	
53494-70-5		ENDRIN KETONE	0.32 J	0.34	ug/kg	MY06BC09, BC12	4/18	0.211	0.25	0.34	NA	Y	NTX	
5103-74-2		GAMMA-CHLORDANE	0.0087 J	0.12 J	ug/kg	MY06BC07	16/18	0.060	0.08	0.12 J	1.7	N	BSL	
76-44-8		HEPTACHLOR	0.031 J	0.09 J	ug/kg	BC15&BC19	2/18	0.165	0.19	0.09 J	0.7	N	BSL	
1024-57-3		HEPTACHLOR EPOXIDE	0.0091 J	0.0925 J	ug/kg	BC15&BC19	11/18	0.086	0.13	0.0925 J	0.24	N	BSL	

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
SVOCs	58-89-9	LINDANE	0.024 J	0.0685 J	ug/kg	BC15&BC19	18/18	0.036	0.04	0.0685 J	1.7	N	BSL	
	95-95-4	2,4,5-TRICHLOROPHENOL	0.088 J	0.11 J	mg/kg	MY06BC02	2/18	0.676	0.78	0.11 J	14000	N	BSL	
	88-06-2	2,4,6-TRICHLOROPHENOL	0.039 J	0.045 J	mg/kg	MY06BC02	2/18	0.670	0.78	0.045 J	29	N	BSL	
	120-83-2	2,4-DICHLOROPHENOL	0.007 J	0.054 J	mg/kg	MY06BC02	4/18	0.586	0.73	0.054 J	410	N	BSL	
	105-67-9	2,4-DIMETHYLPHENOL	0.0068 J	0.061 J	mg/kg	MY06BC02	11/18	0.290	0.45	0.061 J	2700	N	BSL	
	95-48-7	2-METHYLPHENOL	0.0043 J	0.037 J	mg/kg	MY06BC02	18/18	0.013	0.02	0.037 J	6800	N	BSL	
	59-50-7	4-CHLORO-3-METHYLPHENOL	0.018 J	0.469 J	mg/kg	BC15&BC19	13/18	0.256	0.39	0.469 J	NA	Y	NTX	
	106-44-5	4-METHYLPHENOL	0.0052 J	0.358 J	mg/kg	BC15&BC19	16/18	0.122	0.23	0.358 J	680	N	BSL	
	83-32-9	ACENAPHTHENE	0.96 J	0.96 J	ug/kg	MY06BC11	1/18	0.851	0.88	0.96 J	8100	N	BSL	
	208-96-8	ACENAPHTHYLENE	0.18 J	0.615 J	ug/kg	BC15&BC19	17/18	0.340	0.42	0.615 J	NA	Y	NTX	
	120-12-7	ANTHRACENE	0.2 J	1.2 J	ug/kg	MY06BC17	18/18	0.444	0.57	1.2 J	41000	N	BSL	
	56-55-3	BENZO(A)ANTHRACENE	1 J	3.7	ug/kg	MY06BC11	18/18	2.184	2.55					
	50-32-8	BENZO(A)PYRENE	0.88 J	3.5	ug/kg	MY06BC04	18/18	1.992	2.33					
	205-99-2	BENZO(B)FLUORANTHENE	1.6 J	6	ug/kg	MY06BC04	18/18	3.622	4.23					
	207-08-9	BENZO(K)FLUORANTHENE	0.68 J	2.1 J	ug/kg	MY06BC11	18/18	1.309	1.51					
	218-01-9	CHRYSENE	1.5 J	5.1	ug/kg	MY06BC11	17/17	2.942	3.49					
	53-70-3	DIBENZO(A,H)ANTHRACENE	0.11 J	0.37 J	ug/kg	MY06BC04, BC11	18/18	0.228	0.26					
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.66 J	2.7	ug/kg	MY06BC04	18/18	1.558	1.83					
		BENZO(A)PYRENE equivalent		5.1	ug/kg				3.48	5.1	0.43	Y	ASL	
	191-24-2	BENZO(G,H,I)PERYLENE	1.7	5.4	ug/kg	MY06BC11	18/18	3.181	3.60	5.4	NA	Y	NTX	
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.0036 J	0.0054 J	mg/kg	MY06BC07	3/18	0.649	0.79	0.0054 J	230	N	BSL	
	206-44-0	FLUORANTHENE	2.7	9.6	ug/kg	MY06BC17	18/18	5.544	6.45	9.6	5400	N	BSL	
	86-73-7	FLUORENE	0.13 J	0.35 J	ug/kg	MY06BC11	7/18	0.584	0.73	0.35 J	5400	N	BSL	
	87-86-5	PENTACHLOROPHENOL	0.033 J	0.32 J	mg/kg	MY06BC06	3/18	0.665	0.78	0.32 J	26	N	BSL	
	85-01-8	PHENANTHRENE	0.9 J	5.6	ug/kg	MY06BC17	17/18	1.842	2.41	5.6	NA	Y	NTX	
	129-00-0	PYRENE	2.7	9.3	ug/kg	MY06BC11	18/18	5.5	6.30	9.3	4100	N	BSL	
	Tissue/Lobster													
	Metals	7440-38-2	ARSENIC	2.66	2.82	mg/kg	MY06BL02	4/4	2.74	2.810	2.82	0.0014	Y	ASL
7440-39-3		BARIUM	0.12	0.17	mg/kg	MY06BL03	2/4	0.09	0.156	0.17	9.5	N	BSL	
7440-42-8		BORON	1.025	1.16	mg/kg	MY06BL01	4/4	1.08	1.139	1.16	12	N	BSL	
7440-70-2		CALCIUM	662 J	1630 J	mg/kg	MY06BL01	4/4	1011.0	1437.019	1630 J	NA	N	NUT	
7440-47-3		CHROMIUM	0.06J	0.06 J	mg/kg	MY06BL03	1/4	0.03	0.051	0.06 J	200	N	BSL	
7440-48-4		COBALT	0.0055 J	0.01 J	mg/kg	MY06BL02	4/4	0.01	0.010	0.01 J	2.7	N	BSL	
7440-50-8		COPPER	6.71	12.85 J	mg/kg	BL04&BL05	4/4	9.03	11.639	12.85 J	5.4	Y	ASL	
7439-92-1		LEAD	0.015	0.0815	mg/kg	BL04&BL05	4/4	0.04	0.069	0.0815	NA	Y	NTX	
7439-95-4		MAGNESIUM	356	412	mg/kg	MY06BL01	4/4	381.5	404.209	412	NA	N	NUT	
7439-96-5		MANGANESE	0.565	1.28	mg/kg	MY06BL01	4/4	0.83	1.142	1.28	30.2	N	BSL	
7439-97-6		MERCURY	0.17	0.21	mg/kg	MY06BL03	4/4	0.19	0.208	0.21	NA	Y	NTX	
7439-98-7		MOLYBDENUM	0.01 J	0.03	mg/kg	MY06BL03	4/4	0.02	0.026	0.03	0.68	N	BSL	
7440-02-0		NICKEL	0.05 J	0.23	mg/kg	BL04&BL05	4/4	0.10	0.186	0.23	4.3	N	BSL	
7440-09-7		POTASSIUM	2560	2695	mg/kg	BL04&BL05	4/4	2626.3	2687.106	2695	NA	N	NUT	
7782-49-2		SELENIUM	0.41	0.47	mg/kg	MY06BL01	4/4	0.444	0.470	0.47	0.675	N	BSL	
7440-22-4		SILVER	0.171 J	0.239 J	mg/kg	MY06BL02	4/4	0.204	0.232	0.239 J	1.1	N	BSL	
7440-23-5		SODIUM	3085	4040	mg/kg	MY06BL01	4/4	3678.8	4124.441	4040	NA	Y	NTX	
7440-66-6		ZINC	18.4	23.3	mg/kg	MY06BL02	4/4	20.150	22.268	23.3	65	N	BSL	
Pesticides		72-55-9	4,4'-DDE	0.39 J	0.58 J	ug/kg	MY06BL03	4/4	0.463	0.549	0.58 J	6.4	N	BSL
		5103-71-9	ALPHA-CHLORDANE	.021J	.025J	ug/kg	MY06BL01, BL03	4/4	0.024	0.026	.025J	1.7	N	BSL
		319-84-6	ALPHA-HEXACHLOROCYCLOHEXANE	0.021 J	0.021 J	ug/kg	MY06BL03	1/4	0.387	0.730	0.021 J	NA	Y	NTX
		60-57-1	DIELDRIN	0.18 J	0.22	ug/kg	MY06BL03	4/4	0.203	0.219	0.22	0.14	Y	ASL
	1031-07-8	ENDOSULFAN SULFATE	0.017 J	0.017 J	ug/kg	MY06BL01	1/4	0.386	0.731	0.017 J	NA	Y	NTX	
	1024-57-3	HEPTACHLOR EPOXIDE	0.0091 J	.012J	ug/kg	MY06BL01	3/3	0.008	0.014	.012J	0.24	N	BSL	

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale		
SVOCs	95-95-4	2,4,5-TRICHLOROPHENOL	.0145J	0.11	mg/kg	MY06BL01	4/4	0.042	0.087	0.11	14000	N	BSL		
	88-06-2	2,4,6-TRICHLOROPHENOL	0.04 J	0.04	mg/kg	MY06BL01	1/4	1.060	1.700	0.04	29	N	BSL		
	120-83-2	2,4-DICHLOROPHENOL	0.036 J	0.036 J	mg/kg	MY06BL01	1/4	1.065	1.738	0.036 J	410	N	BSL		
	105-67-9	2,4-DIMETHYLPHENOL	0.019 J	.051J	mg/kg	MY06BL01	4/4	0.027	0.043	.051J	2700	N	BSL		
	95-57-8	2-CHLOROPHENOL	0.014 J	0.014	mg/kg	MY06BL01	1/4	1.060	1.740	0.014	680	N	BSL		
	95-48-7	2-METHYLPHENOL	.0094J	.026J	mg/kg	MY06BL01	4/4	0.014	0.022	.026J	6800	N	BSL		
	59-50-7	4-CHLORO-3-METHYLPHENOL	0.035 J	0.11	mg/kg	MY06BL01	4/4	0.052	0.083	0.1J	NA	Y	NTX		
	106-44-5	4-METHYLPHENOL	0.013 J	0.033J	mg/kg	MY06BL01	4/4	0.019	0.028	0.033J	680	N	BSL		
	83-32-9	ACENAPHTHENE	0.041J	0.057 J	ug/kg	MY06BL01	4/4	0.046	0.055	0.057 J	8100	N	BSL		
	208-96-8	ACENAPHTHYLENE	0.14 J	.02J	ug/kg	MY06BL01	4/4	0.180	0.207	.02J	NA	Y	NTX		
	120-12-7	ANTHRACENE	0.072J	0.138J	ug/kg	BL04&BL05	4/4	0.096	0.125	0.138J	41000	N	BSL		
	50-32-8	BENZO(A)PYRENE	0.16 J	0.26J	ug/kg	MY06BL03	4/4	0.195	0.241					ASL	
	205-99-2	BENZO(B)FLUORANTHENE	0.32 J	0.55J	ug/kg	MY06BL03	4/4	0.426	0.520						
	207-08-9	BENZO(K)FLUORANTHENE	0.11 J	0.25J	ug/kg	MY06BL03	4/4	0.175	0.232						
	218-01-9	CHRYSENE	0.68 J	0.9J	ug/kg	MY06BL03	4/4	0.780	0.875						
	53-70-3	DIBENZO(A,H)ANTHRACENE	0.017 J	0.028J	ug/kg	MY06BL03	4/4	0.024	0.029						
	193-39-5	INDENO(1,2,3-CD)PYRENE	0.11 J	0.22J	ug/kg	MY06BL03	4/4	0.154	0.204						
		BENZO(A)PYRENE equivalent		0.37	ug/kg						0.37	0.43	N	BSL	
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.018 J	0.018 J	mg/kg	MY06BL02	1/4	1.073	1.763	0.018 J	230	N	BSL		
	84-74-2	DI-N-BUTYL PHTHALATE	0.0099 J	0.018	mg/kg	BL04&BL05	3/4	0.372	1.076	0.018	14000	N	BSL		
	206-44-0	FLUORANTHENE	1.5 J	2.1 J	ug/kg	MY06BL03	4/4	1.800	2.088	2.1 J	5400	N	BSL		
	86-73-7	FLUORENE	0.11 J	0.11	ug/kg	MY06BL02	2/3	0.468	1.360	0.11	5400	N	BSL		
	87-86-5	PENTACHLOROPHENOL	0.033 J	0.34 J	mg/kg	MY06BL01	3/4	0.459	1.088	0.34 J	26	N	BSL		
	129-00-0	PYRENE	1 J	1.5 J	ug/kg	MY06BL03	4/4	1.2	1.490	1.5 J	4100	N	BSL		
	Tissue/Lobster/Tomalley														
	Metals	7440-38-2	ARSENIC	4.29	4.29	mg/kg	MY06BL06	1/1	NA	NA	4.29	0.0014	Y	ASL	
7440-39-3		BARIUM	0.06 J	0.06 J	mg/kg	MY06BL06	1/1	NA	NA	0.06 J	9.5	N	BSL		
7440-42-8		BORON	1.24	1.24	mg/kg	MY06BL06	1/1	NA	NA	1.24	12	N	BSL		
7440-43-9		CADMIUM	0.85	0.85	mg/kg	MY06BL06	1/1	NA	NA	0.85	0.22	Y	ASL		
7440-70-2		CALCIUM	557	557	mg/kg	MY06BL06	1/1	NA	NA	557	NA	N	NUT		
7440-47-3		CHROMIUM	0.18	0.18	mg/kg	MY06BL06	1/1	NA	NA	0.18	200	N	BSL		
7440-48-4		COBALT	0.12	0.12	mg/kg	MY06BL06	1/1	NA	NA	0.12	2.7	N	BSL		
7440-50-8		COPPER	49.9	49.9	mg/kg	MY06BL06	1/1	NA	NA	49.9	5.4	Y	ASL		
7439-89-6		IRON	25	25	mg/kg	MY06BL06	1/1	NA	NA	25	41	N	BSL		
7439-92-1		LEAD	0.04	0.04	mg/kg	MY06BL06	1/1	NA	NA	0.04	NA	Y	NTX		
7439-95-4		MAGNESIUM	232	232	mg/kg	MY06BL06	1/1	NA	NA	232	NA	N	NUT		
7439-96-5		MANGANESE	2.65	2.65	mg/kg	MY06BL06	1/1	NA	NA	2.65	30.2	N	BSL		
7439-97-6		MERCURY	0.09	0.09	mg/kg	MY06BL06	1/1	NA	NA	0.09	NA	Y	NTX		
7439-98-7		MOLYBDENUM	0.36	0.36	mg/kg	MY06BL06	1/1	NA	NA	0.36	0.68	N	BSL		
7440-02-0		NICKEL	0.24	0.24	mg/kg	MY06BL06	1/1	NA	NA	0.24	4.3	N	BSL		
7440-09-7		POTASSIUM	2130	2130	mg/kg	MY06BL06	1/1	NA	NA	2130	NA	N	NUT		
7782-49-2		SELENIUM	1.04	1.04	mg/kg	MY06BL06	1/1	NA	NA	1.04	0.675	Y	ASL		
7440-22-4		SILVER	0.708	0.708	mg/kg	MY06BL06	1/1	NA	NA	0.708	1.1	N	BSL		
7440-23-5		SODIUM	3160	3160	mg/kg	MY06BL06	1/1	NA	NA	3160	NA	Y	NTX		
7440-62-2		VANADIUM	0.2	0.2	mg/kg	MY06BL06	1/1	NA	NA	0.2	0.6	N	BSL		
7440-66-6		ZINC	16.1	16.1	mg/kg	MY06BL06	1/1	NA	NA	16.1	65	N	BSL		
PCBs		11096-82-5	Total PCBs (Aroclor 1260 only)	130 J	130 J	ug/kg	MY06BL06	1/1	NA	NA	130 J	1.1	Y	ASL	
		Pesticides	72-54-8	4,4'-DDD	2.6 J	2.6 J	ug/kg	MY06BL06	1/1	NA	NA	2.6 J	6.4	N	BSL
			72-55-9	4,4'-DDE	38 J	38 J	ug/kg	MY06BL06	1/1	NA	NA	38 J	6.4	Y	ASL
			50-29-3	4,4'-DDT	1.1 J	1.1 J	ug/kg	MY06BL06	1/1	NA	NA	1.1 J	6.4	N	BSL
			5103-71-9	ALPHA-CHLORDANE	0.91 J	0.91 J	ug/kg	MY06BL06	1/1	NA	NA	0.91 J	1.7	N	BSL

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Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
SVOCs	319-84-6	ALPHA-HEXACHLOROXYCLOHEXANE	1.1 J	1.1 J	ug/kg	MY06BL06	1/1	NA	NA	1.1 J	NA	Y	NTX	
	60-57-1	DIELDRIN	2.6 J	2.6 J	ug/kg	MY06BL06	1/1	NA	NA	2.6 J	0.14	Y	ASL	
	7421-93-4	ENDRIN ALDEHYDE	3.8 J	3.8 J	ug/kg	MY06BL06	1/1	NA	NA	3.8 J	NA	Y	NTX	
	53494-70-5	ENDRIN KETONE	0.63 J	0.63 J	ug/kg	MY06BL06	1/1	NA	NA	0.63 J	NA	Y	NTX	
	5103-74-2	GAMMA-CHLORDANE	0.2 J	0.2 J	ug/kg	MY06BL06	1/1	NA	NA	0.2 J	1.7	N	BSL	
	1024-57-3	HEPTACHLOR EPOXIDE	0.47 J	0.47 J	ug/kg	MY06BL06	1/1	NA	NA	0.47 J	0.24	Y	ASL	
	58-89-9	LINDANE	0.26 J	0.26 J	ug/kg	MY06BL06	1/1	NA	NA	0.26 J	1.7	N	BSL	
	105-67-9	2,4-DIMETHYLPHENOL	0.069 J	0.069 J	mg/kg	MY06BL06	1/1	NA	NA	0.069 J	2700	N	BSL	
	95-48-7	2-METHYLPHENOL	0.082 J	0.082 J	mg/kg	MY06BL06	1/1	NA	NA	0.082 J	6800	N	BSL	
	59-50-7	4-CHLORO-3-METHYLPHENOL	0.44 J	0.44 J	mg/kg	MY06BL06	1/1	NA	NA	0.44 J	NA	Y	NTX	
	106-44-5	4-METHYLPHENOL	0.074 J	0.074 J	mg/kg	MY06BL06	1/1	NA	NA	0.074 J	680	N	BSL	
	83-32-9	ACENAPHTHENE	0.82 J	0.82 J	ug/kg	MY06BL06	1/1	NA	NA	0.82 J	8100	N	BSL	
	208-96-8	ACENAPHTHYLENE	1.9 J	1.9 J	ug/kg	MY06BL06	1/1	NA	NA	1.9 J	NA	Y	NTX	
	120-12-7	ANTHRACENE	1.3 J	1.3 J	ug/kg	MY06BL06	1/1	NA	NA	1.3 J	41000	N	BSL	
	56-55-3	BENZO(A)ANTHRACENE	5.6 J	5.6 J	ug/kg	MY06BL06	1/1	NA	NA					
	50-32-8	BENZO(A)PYRENE	2.7 J	2.7 J	ug/kg	MY06BL06	1/1	NA	NA					
	205-99-2	BENZO(B)FLUORANTHENE	8.8 J	8.8 J	ug/kg	MY06BL06	1/1	NA	NA					
	207-08-9	BENZO(K)FLUORANTHENE	2.7 J	2.7 J	ug/kg	MY06BL06	1/1	NA	NA					
	218-01-9	CHRYSENE	20 J	20 J	ug/kg	MY06BL06	1/1	NA	NA					
	53-70-3	DIBENZO(A,H)ANTHRACENE	0.49 J	0.49 J	ug/kg	MY06BL06	1/1	NA	NA					
	193-39-5	INDENO(1,2,3-CD)PYRENE	2.6 J	2.6 J	ug/kg	MY06BL06	1/1	NA	NA					
		BENZO(A)PYRENE equivalent		4.9	ug/kg					4.9	0.43	Y	ASL	
	191-24-2	BENZO[G,H,I]PERYLENE	3.3 J	3.3 J	ug/kg	MY06BL06	1/1	NA	NA	3.3 J	NA	Y	NTX	
	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	0.11 J	0.11 J	mg/kg	MY06BL06	1/1	NA	NA	0.11 J	230	N	BSL	
	206-44-0	FLUORANTHENE	55 J	55 J	ug/kg	MY06BL06	1/1	NA	NA	55 J	5400	N	BSL	
	86-73-7	FLUORENE	1.9 J	1.9 J	ug/kg	MY06BL06	1/1	NA	NA	1.9 J	5400	N	BSL	
	91-20-3	NAPHTHALENE	4.8 J	4.8 J	ug/kg	MY06BL06	1/1	NA	NA	4.8 J	2700	N	BSL	
	87-86-5	PENTACHLOROPHENOL	0.11 J	0.11 J	mg/kg	MY06BL06	1/1	NA	NA	0.11 J	2.6	N	BSL	
	85-01-8	PHENANTHRENE	6.7 J	6.7 J	ug/kg	MY06BL06	1/1	NA	NA	6.7 J	NA	Y	NTX	
	129-00-0	PYRENE	43 J	43 J	ug/kg	MY06BL06	1/1	NA	NA	43 J	4100	N	BSL	
	Tissue/Clams - Reference Locations													
	Metals	7429-90-5	ALUMINUM	328 J	427 J	mg/kg	MYRSB-C02	3/3	374.0	NA	427 J	140	Y	ASL
		7440-36-0	ANTIMONY	0.012	0.064	mg/kg	MYRSB-C02	3/3	0.030	NA	0.064	0.054	Y	ASL
7440-38-2		ARSENIC	2.84	3.42	mg/kg	MYRSB-C02	3/3	3.187	NA	3.42	0.0014	Y	ASL	
7440-39-3		BARIUM	1.86	2.64	mg/kg	MYRSB-C02	3/3	2.220	NA	2.64	9.5	N	BSL	
7440-41-7		BERYLLIUM	0.02	0.023	mg/kg	MYRSB-C02	3/3	0.022	NA	0.023	0.27	N	BSL	
7440-42-8		BORON	2.85	3.3	mg/kg	MYRSB-C02	3/3	3.093	NA	3.3	12	N	BSL	
7440-43-9		CADMIUM	0.037	0.05	mg/kg	MYRSB-C01	3/3	0.044	NA	0.05	0.22	N	BSL	
7440-70-2		CALCIUM	1090	3830	mg/kg	MYRSB-C02	3/3	2616.7	NA	3830	NA	N	NUT	
7440-47-3		CHROMIUM	0.88	1.37	mg/kg	MYRSB-C02	3/3	1.06	NA	1.37	200	N	BSL	
7440-48-4		COBALT	0.316	0.336	mg/kg	MYRSB-C02	3/3	0.33	NA	0.336	2.7	N	BSL	
7440-50-8		COPPER	3.25 J	7.61 J	mg/kg	MYRSB-C02	3/3	5.39	NA	7.61 J	5.4	Y	ASL	
7439-89-6		IRON	1100	1500	mg/kg	MYRSB-C02	3/3	1310.0	NA	1500	41	Y	ASL	
7439-92-1		LEAD	1.08 J	1.47 J	mg/kg	MYRSB-C02	3/3	1.21	NA	1.47 J	NA	Y	NTX	
7439-95-4		MAGNESIUM	759	791	mg/kg	MYRSB-C02	3/3	771.0	NA	791	NA	N	NUT	
7439-96-5		MANGANESE	41.8 J	57.4 J	mg/kg	MYRSB-C03	3/3	47.4	NA	57.4 J	30.2	Y	ASL	
7439-97-6		MERCURY	0.05	0.05	mg/kg	MYRSB-C02	3/3	0.050	NA	0.05	NA	Y	NTX	
7439-98-7		MOLYBDENUM	0.34	0.36	mg/kg	MYRSB-C01	3/3	0.350	NA	0.36	0.68	N	BSL	
7440-02-0		NICKEL	0.62 J	0.91 J	mg/kg	MYRSB-C02	3/3	0.730	NA	0.91 J	4.3	N	BSL	
7440-09-7		POTASSIUM	1930	1950	mg/kg	MYRSB-C02	3/3	1940.0	NA	1950	NA	N	NUT	
7440-22-4		SILVER	0.129 J	0.178 J	mg/kg	MYRSB-C02	3/3	0.160	NA	0.178 J	1.1	N	BSL	

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
PCBs	7440-23-5	SODIUM	4200	4340	mg/kg	MYRSB-C02	3/3	4270.0	NA	4340	NA	Y	NTX	
	7440-28-0	THALLIUM	.005 J	0.006 J	mg/kg	MYRSB-C03	2/3	0.006	NA	0.006 J	0.01	N	BSL	
	7440-62-2	VANADIUM	1.86	2.17	mg/kg	MYRSB-C02	3/3	1.983	NA	2.17	0.6	Y	ASL	
	7440-66-6	ZINC	16	18	mg/kg	MYRSB-C02	3/3	17.200	NA	18	65	N	BSL	
	11097-69-1	PCB 1254	3.4	4.6	ug/kg	MYRSB-C02	3/3	3.967	NA					
	11096-82-5	PCB 1260	3.3 J	4	ug/kg	MYRSB-C02	3/3	3.700	NA					
Pesticides	Total PCBs			8.6	ug/kg			7.660		8.6	1.10	Y	ASL	
	72-54-8	4,4'-DDD	0.12 J	0.14 J	ug/kg	MYRSB-C02	3/3	0.130	NA	0.14 J	6.4	N	BSL	
	72-55-9	4,4'-DDE	0.29 J	0.39	ug/kg	MYRSB-C02	3/3	1.040	NA	0.39	6.4	N	BSL	
	50-29-3	4,4'-DDT	0.053 J	0.065 J	ug/kg	MYRSB-C03	3/3	0.058	NA	0.065 J	6.4	N	BSL	
	5103-71-9	ALPHA-CHLORDANE	0.13 J	0.14 J	ug/kg	MYRSB-C03	3/3	0.140	NA	0.14 J	1.7	N	BSL	
	60-57-1	DIELDRIN	0.058 J	0.074 J	ug/kg	MYRSB-C03	3/3	0.064	NA	0.074 J	0.14	N	BSL	
	1031-07-8	ENDOSULFAN SULFATE	0.048 J	0.059 J	ug/kg	MYRSB-C02	3/3	0.055	NA	0.059 J	NA	Y	NTX	
	53494-70-5	ENDRIN KETONE	0.41	0.46	ug/kg	MYRSB-C02	3/3	0.427	NA	0.46	NA	Y	NTX	
	5103-74-2	GAMMA-CHLORDANE	0.079 J	0.12 J	ug/kg	MYRSB-C02	3/3	0.282	NA	0.12 J	1.7	N	BSL	
	1024-57-3	HEPTACHLOR EPOXIDE	0.012 J	0.02 J	ug/kg	MYRSB-C03	3/3	0.015	NA	0.02 J	0.24	N	BSL	
	58-89-9	LINDANE	0.04 J	0.046 J	ug/kg	MYRSB-C03	3/3	0.045	NA	0.046 J	1.7	N	BSL	
		ALPHA-BHC	0.025 J	0.036 J	ug/kg	MYRSB-C03	3/3	0.029	NA	0.036 J	0.5	N	BSL	
		BETA-BHC	0.26 J	0.5	ug/kg	MYRSB-C01	3/3	0.360	NA	0.5	1.75	N	BSL	
		DELTA-BHC	0.041 J	0.041 J	ug/kg	MYRSB-C03	1/3	0.041	NA	0.041 J	NA	Y	NTX	
	SVOCs	95-95-4	2,4,5-TRICHLOROPHENOL	0.033 J	0.1 J	mg/kg	MYRSB-C02	2/3	0.066	NA	0.1 J	14000	N	BSL
		88-06-2	2,4,6-TRICHLOROPHENOL	0.038 J	0.038 J	mg/kg	MYRSB-C02	1/3	0.038	NA	0.038 J	29	N	BSL
		120-83-2	2,4-DICHLOROPHENOL	0.013 J	0.043 J	mg/kg	MYRSB-C01	1/3	0.028	NA	0.043 J	410	N	BSL
		105-67-9	2,4-DIMETHYLPHENOL	0.021 J	0.061 J	mg/kg	MYRSB-C01	3/3	0.038	NA	0.061 J	2700	N	BSL
		95-48-7	2-METHYLPHENOL	0.016 J	0.035 J	mg/kg	MYRSB-C01	3/3	0.023	NA	0.035 J	6800	N	BSL
		59-50-7	4-CHLORO-3-METHYLPHENOL	0.064 J	0.2 J	mg/kg	MYRSB-C01	3/3	0.120	NA	0.2 J	NA	Y	NTX
106-44-5		4-METHYLPHENOL	0.033 J	0.09 J	mg/kg	MYRSB-C01	3/3	0.063	NA	0.09 J	680	N	BSL	
100027		4-NITROPHENOL	0.31 R	1.3 R	mg/kg	MYRSB-C03	3/3	0.590	NA	1.3 R	1100	N	BSL	
87-86-5		PENTACHLOROPHENOL	0.049 J	0.17 J	mg/kg	MYRSB-C01	2/3	0.110	NA	0.17 J	2.6	N	BSL	
208-96-8		ACENAPHTHYLENE	0.4 J	0.52 J	ug/kg	MYRSB-C03	3/3	0.470	NA	0.52 J	NA	Y	NTX	
120-12-7		ANTHRACENE	0.32 J	0.4 J	ug/kg	MYRSB-C02	3/3	0.370	NA	0.4 J	41000	N	BSL	
56-55-3		BENZO(A)ANTHRACENE	3.3	4	ug/kg	MYRSB-C03	3/3	3.633	NA					
50-32-8		BENZO(A)PYRENE	3.6	4.1	ug/kg	MYRSB-C03	3/3	3.867	NA					
205-99-2		BENZO(B)FLUORANTHENE	5.8 J	7.1 J	ug/kg	MYRSB-C03	3/3	6.500	NA					
53-70-3		DIBENZO(A,H)ANTHRACENE	0.46 J	0.5 J	ug/kg	MYRSB-C03	3/3	0.480	NA					
218-01-9		CHRYSENE	4.5	6.2	ug/kg	MYRSB-C03	3/3	5.267	NA					
193-39-5		INDENO(1,2,3-CD)PYRENE	2.8	3.2	ug/kg	MYRSB-C03	3/3	3.033	NA					
		BENZO(A)PYRENE equivalent		6.0	ug/kg			5.669		6	0.43	Y	ASL	
207-08-9		BENZO(K)FLUORANTHENE	2.1	2.5	ug/kg	MYRSB-C03	3/3	2.267	NA	2.5	43	N	BSL	
191-24-2		BENZO(G,H,I)PERYLENE	4.3	5	ug/kg	MYRSB-C03	3/3	4.700	NA	5	NA	Y	NTX	
206-44-0	FLUORANTHENE	6.2	7.8	ug/kg	MYRSB-C03	3/3	7.000	NA	7.8	5400	N	BSL		
86-73-7	FLUORENE	0.24 J	0.33 J	ug/kg	MYRSB-C01	3/3	0.290	NA	0.33 J	5400	N	BSL		
85-01-8	PHENANTHRENE	1.8 J	2 J	ug/kg	MYRSB-C02	3/3	1.900	NA	2 J	NA	Y	NTX		
129-00-0	PYRENE	7.6	9.2	ug/kg	MYRSB-C03	3/3	8.4	NA	9.2	4100	N	BSL		
Tissue/Mussels - Reference Locations														
Metals	7429-90-5	ALUMINUM	57.8 J	93.6 J	mg/kg	MYRSB-M02	4/4	75.6	NA	93.6 J	140	N	BSL	
	7440-38-2	ARSENIC	0.98	1.53	mg/kg	MYRSB-M02	4/4	1.370	NA	1.53	0.0014	Y	ASL	
	7440-39-3	BARIUM	0.31 J	0.53 J	mg/kg	MYRSB-M02	4/4	0.450	NA	0.53 J	9.5	N	BSL	
	7440-41-7	BERYLLIUM	0.005 J	0.006 J	mg/kg	MYRSB-M02	2/4	0.006	NA	0.006 J	0.27	N	BSL	
	7440-42-8	BORON	3.95	4.43	mg/kg	MYRSB-M04	4/4	4.175	NA	4.43	12	N	BSL	
	7440-43-9	CADMIUM	0.214	0.316	mg/kg	MYRSB-M04	4/4	0.276	NA	0.316	0.22	Y	ASL	

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale	
Pesticides	7440-70-2	CALCIUM	687 J	2060 J	mg/kg	MYRSB-M03	4/4	1397.0	NA	2060 J	NA	N	NUT	
	7440-47-3	CHROMIUM	0.38	0.6	mg/kg	MYRSB-M03	4/4	0.52	NA	0.6	200	N	BSL	
	7440-48-4	COBALT	0.092	0.14	mg/kg	MYRSB-M04	4/4	0.13	NA	0.14	2.7	N	BSL	
	7440-50-8	COPPER	1.3 J	3.82 J	mg/kg	MYRSB-M02	4/4	2.09	NA	3.82 J	5.4	N	BSL	
	7439-89-6	IRON	95 J	166 J	mg/kg	MYRSB-M02	4/4	133.0	NA	166 J	41	Y	ASL	
	7439-92-1	LEAD	0.219	0.411	mg/kg	MYRSB-M02	4/4	0.31	NA	0.411	NA	Y	NTX	
	7439-95-4	MAGNESIUM	609	740	mg/kg	MYRSB-M01	4/4	664.8	NA	740	NA	N	NUT	
	7439-96-5	MANGANESE	3.35 J	7.2 J	mg/kg	MYRSB-M04	4/4	4.8	NA	7.2 J	30.2	N	BSL	
	7439-97-6	MERCURY	0.04	0.05	mg/kg	MYRSB-M02	4/4	0.048	NA	0.05	NA	Y	NTX	
	7439-98-7	MOLYBDENUM	0.17	0.29	mg/kg	MYRSB-M03	4/4	0.200	NA	0.29	0.68	N	BSL	
	7440-02-0	NICKEL	0.23	0.51	mg/kg	MYRSB-M03	4/4	0.358	NA	0.51	4.3	N	BSL	
	7440-09-7	POTASSIUM	1380	1810	mg/kg	MYRSB-M03	4/4	1672.5	NA	1810	NA	N	NUT	
	7782-49-2	SELENIUM	0.38 J	0.62 J	mg/kg	MYRSB-M04	4/4	0.5	NA	0.62 J	0.675	N	BSL	
	7440-22-4	SILVER	0.008 J	0.02	mg/kg	MYRSB-M04	4/4	0.013	NA	0.02	1.1	N	BSL	
	7440-23-5	SODIUM	4180	5270	mg/kg	MYRSB-M01	4/4	4607.5	NA	5270	NA	Y	NTX	
	7440-62-2	VANADIUM	0.32 J	0.64 J	mg/kg	MYRSB-M03	4/4	0.440	NA	0.64 J	0.6	Y	ASL	
	7440-66-6	ZINC	8.98	14	mg/kg	MYRSB-M03	4/4	12.020	NA	14	65	N	BSL	
	72-54-8	4,4'-DDD	0.19 J	0.4	ug/kg	MYRSB-M02	4/4	0.320	NA	0.4	6.4	N	BSL	
	72-55-9	4,4'-DDE	0.44	0.92	ug/kg	MYRSB-M03	4/4	0.750	NA	0.92	6.4	N	BSL	
	5103-71-9	ALPHA-CHLORDANE	0.17 J	0.3 J	ug/kg	MYRSB-M03	4/4	0.240	NA	0.3 J	1.7	N	BSL	
	60-57-1	DIELDRIN	0.04 J	0.073 J	ug/kg	MYRSB-M02	4/4	0.062	NA	0.073 J	0.14	N	BSL	
	1031-07-8	ENDOSULFAN SULFATE	0.045 J	0.088 J	ug/kg	MYRSB-M03	4/4	0.075	NA	0.088 J	NA	Y	NTX	
	53494-70-5	ENDRIN KETONE	0.25 J	0.37 J	ug/kg	MYRSB-M04	4/4	0.320	NA	0.37 J	NA	Y	NTX	
	5103-74-2	GAMMA-CHLORDANE	0.06 J	0.13 J	ug/kg	MYRSB-M03	4/4	0.087	NA	0.13 J	1.7	N	BSL	
	1024-57-3	HEPTACHLOR EPOXIDE	0.011 J	0.011 J	ug/kg	MYRSB-M02	1/4	0.011	NA	0.011 J	0.24	N	BSL	
	58-89-9	LINDANE	0.021 J	0.044 J	ug/kg	MYRSB-M02	4/4	0.030	NA	0.044 J	1.7	N	BSL	
	SVOCs		ALPHA-BHC	0.017 J	0.034 J	ug/kg	MYRSB-M03	4/4	0.030	NA	0.034 J	0.5	N	BSL
		100027	4-NITROPHENOL	0.31 R	1.3 R	mg/kg	MYRSB-M02	4/4	0.820	NA	1.3 R	1100	N	BSL
		78591	ISOPHORONE	.025 J	0.028 J	mg/kg	MYRSB-M02	3/4	0.027	NA	0.028 J	330	N	BSL
		208-96-8	ACENAPHTHYLENE	0.32 J	0.6 J	ug/kg	MYRSB-M03	4/4	0.490	NA	0.6 J	NA	Y	NTX
		120-12-7	ANTHRACENE	0.3 J	0.56 J	ug/kg	MYRSB-M03	4/4	0.460	NA	0.56 J	41000	N	BSL
		56-55-3	BENZO(A)ANTHRACENE	1.6	2.6	ug/kg	MYRSB-M03	4/4	2.250	NA				
		50-32-8	BENZO(A)PYRENE	1.1 J	1.7	ug/kg	MYRSB-M03	4/4	1.550	NA				
205-99-2		BENZO(B)FLUORANTHENE	3.1	5.2	ug/kg	MYRSB-M03	4/4	4.475	NA					
207-08-9		BENZO(K)FLUORANTHENE	1	1.6 J	ug/kg	MYRSB-M03	4/4	1.400	NA					
53-70-3		DIBENZO(A,H)ANTHRACENE	0.18 J	0.27 J	ug/kg	MYRSB-M03	4/4	0.240	NA					
218-01-9		CHRYSENE	2.3	4	ug/kg	MYRSB-M02	4/4	3.350	NA					
193-39-5		INDENO(1,2,3-CD)PYRENE	0.96 J	1.5 J	ug/kg	MYRSB-M02	4/4	1.340	NA					
		BENZO(A)PYRENE equivalent		2.9	ug/kg			2.614		2.9	0.43	Y	ASL	
206-44-0		FLUORANTHENE	3.5	6	ug/kg	MYRSB-M02	4/4	5.050	NA	6	5400	N	BSL	
129-00-0		PYRENE	4.5	7.8	ug/kg	MYRSB-M02	4/4	6.5	NA	7.8	4100	N	BSL	

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

1 - MBOH FTALs or USEPA Region 3 RBCs modified to an HI = 0.1or 10⁰. Same units as reported concentrations

COPC - Compounds of Potential Concern

DRO - Diesel Range Organics

J - estimated concentration

Conc. - Concentration

Min. - Minimum

Max - Maximum

IFD - Infrequently Detected

BSL - Below Screening Level

ASL - Above Screening Level

Table 5-11
Occurrence, Distribution and Selection of COPCs
Shellfish Tissue

Medium	CAS No.	Chemical	Min Conc.	Max Conc.	Units	Location of Maximum	Detection Frequency	Average Conc.	95% UCL Conc.	Screening Conc.	Risk Based Conc. ¹	Selected as COPC	Rationale
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NUT - Essential Nutrient
 NTX - Insufficient toxicity information
 TX - toxicity information is available to evaluate risks
 Y - Yes
 N - No

Table 5-1J
Occurrence, Distribution and Selection of COPCs
Groundwater

Medium	CAS No.	Chemical	Minimum Conc. (ug/L)	Maximum Conc. (ug/L)	Location of Maximum	Frequency of Detection	Average Concentration (ug/L)	Screening Concentration (ug/L)	Risk Based Conc. (1)	Selected as COPC	Rationale
Groundwater											
Fuel	NA	DIESEL RANGE ORGANICS	51	5810 J	MY05GW100	55/60	517	5810 J	50	Y	ASL
Metals	7429-90-5	ALUMINUM	0.099 J	3850	MY05GW107	71/96	510.65	3850	3600	Y	ASL
	7440-36-0	ANTIMONY	0.007 J	0.033 J	MY04GW03	4/96	0.01	0.033 J	1.5	N	BSL
	7440-38-2	ARSENIC	0.01 J	23.3	MY05GW106-1C	31/97	6.60	23.3	0.045	Y	ASL
	7440-39-3	BARIIUM	0.009 J	266	MY05GW20	97/97	55.66	266	260	Y	ASL
	7440-41-7	BERYLLIUM	0.0018 J	1.2 J	MY05GW23	11/97	0.41	1.2 J	73.0	Y	BSL/DER
	7440-42-8	BORON	0.18 J	2450	MY05GW117	88/97	155.20	2450	730	Y	ASL
	7440-43-9	CADMIUM	0.0014 J	1.7	MY05GW04-1C	25/97	0.39	1.7	2	Y	BSL/DER
	7440-70-2	CALCIUM	18	681000	MY05GW23	95/95	76002.21	681000	NA	N	NUT
	7440-47-3	CHROMIUM	0.002 J	22.2 J	MY05GW09-1B	32/97	4.73	22.2 J	5500	Y	BSL/DER
	7440-48-4	COBALT	0.006	60.8 J	MY05GW117	28/97	15.58	60.8 J	73	N	BSL
	7440-50-8	COPPER	0.004 J	296	MY05GW107	35/97	15.52	296	150	Y	ASL
	7439-89-6	IRON	0.012 J	543000	MY05GW23-1B&GW52-1B	80/97	16595.27	543000	1100	Y	ASL
	7439-92-1	LEAD	0.005 J	18.6	MY04GW07A	28/97	2.32	18.6	1	Y	ASL
	7439-95-4	MAGNESIUM	9.3	718000	MY05GW23-1B&GW52-1B	95/95	45644.99	718000	NA	N	NUT
	7439-96-5	MANGANESE	0.004	41800	MY05GW23-1B&GW52-1B	94/97	3568.50	41800	88	Y	ASL
	7439-97-6	MERCURY	0.000007 J	0.59 J	MY05GW09-1B	23/97	0.06	0.59 J	1.1	N	BSL
	7439-98-7	MOLYBDENUM	0.015 J	3170	MY05GW107	40/94	123.34	3170	18	Y	ASL
	7440-02-0	NICKEL	0.011	139	MY05GW107	50/97	22.62	139	73	Y	ASL
	09/07/7440	POTASSIUM	4.4 J	115000 J	MY05GW117	95/95	11085.32	115000 J	NA	N	NUT
	7782-49-2	SELENIUM	0.01 J	21.6 J	MY05GW23	16/93	3.65	21.6 J	18	Y	ASL
	7440-22-4	SILVER	0.004 J	49.9	MY05GW107	19/97	3.05	49.9	18	Y	ASL
	7440-23-5	SODIUM	16	4280000	MY05GW23-1B&GW52-1B	94/95	178154.91	4280000	NA	Y	NTX
	7440-28-0	THALLIUM	0.013	3.3	MY05GW22	12/96	0.89	3.3	0.24	Y	ASL
	7440-62-2	VANADIUM	0.006	20.8	MY05GW09-1B	17/97	6.52	20.8	26	Y	BSL/DER
	7440-66-6	ZINC	0.025 J	491	MY05GW112-1C	62/97	30.74	491	1100	N	BSL
Pesticides	60-57-1	DIELDRIN	0.057	0.1 J	MY05GW101	5/55	0.09	0.1 J	0.00420	Y	ASL/DER
	76-44-8	HEPTACHLOR	0.52	0.52	MY05GW17	1/55	0.52	0.52	0.0150	Y	ASL/DER
	95-48-7	2-METHYLPHENOL	9.74	9.74	MY05GW100	1/58	9.74	9.74	180	N	BSL
SVOCs	106-44-5	4-METHYLPHENOL	16.5	16.5	MY05GW102	1/58	16.50	16.5	18	N	BSL
	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	7 J	7 J	MY05GW21	1/61	7.00	7 J	4.8	Y	ASL
	84-74-2	DI-N-BUTYLPHTHALATE	1 J	1 J	MY04GW03	1/61	1.00	1 J	360	Y	BSL/DER
	91-20-3	NAPHTHALENE	9 J	9 J	MY05GW106	1/61	9.00	9 J	0.62	Y	ASL/DER
	108-95-2	PHENOL	25.7	265	MY05GW102	2/58	145.35	265	2200	N	BSL
VOCs	71-55-6	1,1,1-TRICHLOROETHANE	6	535 J	MY05GW112&GW120	7/77	225.86	535 J	320	Y	ASL/DER
	79-00-5	1,1,2-TRICHLOROETHANE	0.4 J	0.4 J	MY05GW113-1C	1/77	0.40	0.4 J	0.20	Y	ASL
	75-34-3	1,1-DICHLOROETHANE	0.9 J	240	MY05GW113	11/77	50.07	240	81	Y	ASL/DER
	75-35-4	1,1-DICHLOROETHENE	0.5 J	190	MY05GW113-1C	9/77	46.72	190	34	Y	ASL
	107-06-2	1,2-DICHLOROETHANE	2	2	MY05GW113-1C	1/77	2.00	2	0.12	Y	ASL
	78-93-3	2-BUTANONE	15	15	MY05GW102	1/63	15.00	15	190	N	BSL
	67-64-1	ACETONE	2 J	23 J	MY05GW06	10/55	5.46	23 J	61	N	BSL
	71-43-2	BENZENE	0.6 J	3.7	MY05GW100	4/76	1.48	3.7	0.34	Y	ASL/DER
	75-27-4	BROMODICHLOROMETHANE	2	2	MY05GW123	1/77	2.00	2	0.18	Y	ASL
	74-83-9	BROMOMETHANE	1 J	1 J	MY04GW06A	1/77	1.00	1 J	0.87	Y	ASL

Table 5-1J
Occurrence, Distribution and Selection of COPCs
Groundwater

Medium	CAS No.	Chemical	Minimum Conc. (ug/L)	Maximum Conc. (ug/L)	Location of Maximum	Frequency of Detection	Average Concentration (ug/L)	Screening Concentration (ug/L)	Risk Based Conc. (1)	Selected as COPC	Rationale
	67-66-3	CHLOROFORM	0.66 J	38	MY05GW123	21/77	6.13	38	0.62	Y	ASL
	74-87-3	CHLOROMETHANE	2 J	3	MY05GW109-1C&GW152-1C	2/77	2.33	3	1.50	Y	ASL
	100-41-4	ETHYLBENZENE	1	160	MY05GW106-1C	3/77	93.67	160	2.90	Y	ASL/DER
	136777-61-2	M/P-XYLENE	1	340	MY05GW106	3/77	187.00	340	21	Y	ASL/DER
	75-09-2	METHYLENE CHLORIDE	1 J	1 J	MY05GW14	1/77	1.00	1 J	4.30	N	BSL
	95-47-6	O-XYLENE	0.15 J	170	MY05GW106	4/77	75.24	170	21	Y	ASL
	108-88-3	TOLUENE	0.5 J	2	MY05GW17, MY05GW106-1C	7/76	1.06	2	72	Y	BSL/DER
	79-01-6	TRICHLOROETHENE	1	4	MY05GW129	2/76	2.50	4	0.0280	Y	ASL/DER
	75-01-4	VINYL CHLORIDE	0.13 J	2 J	MY05GW113, MY05GW113-1C	8/77	0.69	2 J	0.0200	Y	ASL
Other	14797-55-8	NITRATE	50	3135	MY05GW05-1B&GW50-1B	31/41	1030	3135	1000	Y	ASL

BOLD - individual carcinogenic PAH compounds modified by the appropriate TEF and summed to yield a Benzo(a)pyrene equivalent concentration- see text

(1) USEPA Region 9 Tap Water PRGs modified to an HI = 1. Same units as reported concentrations.

COPC - Compounds of Potential Concern

J - estimated concentration

BSL - Below Screening Level

ASL - Above Screening Level

NUT - Essential Nutrient

DER - Dermal/Oral ratio > 10% (see Appendix B-3 USEPA, 2001a)

Y - Yes

N - No