

Table 6-1. Selection of Human Health COPCs for Area A Former Operations Area Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Industrial Soil PRGs	COPC Flag (Y/N)	Rationale for Selection or Elimination
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	4.08E-04	2.76E-02	FOA-02-1-0-4	19 (19)						Y	NSL ^c
1,2,3,4,6,7,8-HpCDF	6.60E-05	4.92E-03	FOA-02-1-0-4	19 (19)						Y	NSL ^c
1,2,3,4,7,8,9-HpCDF	7.36E-06	5.13E-04	FOA1-Comp1 0-4	18 (19)	8.50E-04	8.50E-04				Y	NSL ^c
1,2,3,4,7,8-HxCDD	3.16E-06	2.88E-04	FOA-02-1-0-4	19 (19)						Y	NSL ^c
1,2,3,4,7,8-HxCDF	3.48E-06	3.23E-04	FOA-02-1-0-4	19 (19)						Y	NSL ^c
1,2,3,6,7,8-HxCDD	1.02E-05	8.04E-04	FOA1-Comp1 0-4	19 (19)						Y	NSL ^c
1,2,3,6,7,8-HxCDF	1.51E-06	2.02E-04	FOA-02-1-0-4	19 (19)						Y	NSL ^c
1,2,3,7,8,9-HxCDD	7.64E-06	5.40E-04	FOA1-Comp1 0-4	19 (19)						Y	NSL ^c
1,2,3,7,8,9-HxCDF	2.20E-06	1.06E-04	FOA-02-1-0-4	11 (19)	1.09E-07	8.57E-05				Y	NSL ^c
1,2,3,7,8-PCDD	9.95E-07	8.98E-05	FOA1-Comp1 0-4	19 (19)						Y	NSL ^c
1,2,3,7,8-PCDF	2.36E-07	4.89E-05	FOA-02-1-0-4	19 (19)						Y	NSL ^c
2,3,4,6,7,8-HxCDF	2.88E-06	3.42E-04	FOA-02-1-0-4	19 (19)						Y	NSL ^c
2,3,4,7,8-PCDF	2.97E-07	6.03E-05	FOA-02-1-0-4	19 (19)						Y	NSL ^c
2,3,7,8-TCDD	5.46E-07	1.84E-05	SS-SEEP	10 (19)	1.11E-07	9.14E-07				Y	NSL ^c
2,3,7,8-TCDF	8.94E-07	1.38E-05	SS-SEEP	14 (19)	9.80E-08	8.03E-07				Y	NSL ^c
OCDD	3.31E-03	2.38E-01	FOA-02-1-0-4	19 (19)						Y	NSL ^c
OCDF	3.19E-04	2.60E-02	FOA-02-1-0-4	19 (19)						Y	NSL ^c
TEQDF-WHO98 (ND = 1/2 DL)	9.29E-06	7.21E-04	FOA-02-1-0-4	19 (19)				19	1.60E-05	Y	ASL
Metals											
Aluminum	2.14E+03	3.57E+03	FOA2-COMP1 0-4	16 (16)					1.00E+05	N	BSL
Antimony	1.40E-01	1.10E+00	FOA1-COMP2 4-12, FOA2-COMP6 4-12	4 (16)	9.20E-01	1.29E+01			4.10E+02	N	BSL
Arsenic	7.50E-01	6.20E+00	SS-FPA-02	14 (16)	3.10E+00	3.10E+00	2	2	1.60E+00	Y	ASL
Barium	1.72E+01	5.49E+01	SS-SEEP	16 (16)					6.70E+04	N	BSL
Beryllium	5.70E-02	1.40E-01	FOA1-COMP2 4-12	16 (16)					1.90E+03	N	BSL
Cadmium	1.50E-01	1.50E-01	SS-SEEP	1 (16)	6.50E-02	1.10E+00			4.50E+02	N	BSL
Calcium	7.59E+02	9.12E+03	SS-FPA-02	15 (16)	1.08E+03	1.08E+03				N	NUTR
Chromium	4.60E+00	1.50E+01	FOA1-COMP4 0-4	16 (16)					4.50E+02	N	BSL
Cobalt	2.10E+00	5.50E+00	FOA2-COMP2 4-12	16 (16)					1.90E+03	N	BSL

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Copper	1.90E+00	1.33E+01	SS-FPA-02	16 (16)					4.10E+04	N	BSL
Iron	4.13E+03	1.29E+04	SS-SEEP	16 (16)					1.00E+05	N	BSL, NUTR
Lead	2.10E+00	1.35E+01	SS-SEEP	16 (16)					7.50E+02	N	BSL
Magnesium	7.20E+02	2.24E+03	SS-FPA-02	14 (16)	1.03E+03	1.03E+03				N	NUTR
Manganese	1.47E+02	3.74E+02	SS-SEEP	16 (16)					1.90E+04	N	BSL
Mercury	5.90E-03	8.70E-02	SS-FPA-02	7 (12)	6.30E-03	1.00E-01			3.10E+02	N	BSL
Nickel	4.20E+00	1.90E+01	SS-FPA-01	16 (16)					2.00E+04	N	BSL
Potassium	1.65E+02	4.51E+02	SS-SEEP	16 (16)						N	NUTR
Selenium	1.10E+00	1.30E+00	FOA1-COMP4 0-4	2 (16)	3.00E-01	7.50E+00			5.10E+03	N	BSL
Silver	8.00E-02	8.00E-02	SS-SEEP	1 (16)	1.30E-01	2.20E+00			5.10E+03	N	BSL
Sodium	3.46E+01	2.79E+02	SS-SEEP	10 (16)	5.86E+01	1.09E+03				N	NUTR
Thallium	5.70E-02	5.70E-02	SS-SEEP	1 (16)	1.20E-01	5.40E+00			6.70E+01	N	BSL
Vanadium	6.30E+00	1.20E+01	FOA2-COMP6 0-4	16 (16)					7.20E+03	N	BSL
Zinc	7.90E+00	3.02E+01	SS-SEEP	16 (16)					1.00E+05	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	3.80E-03	1.90E-01	FOA-02-1-0-4	8 (41)	3.00E-03	2.10E+00			2.90E+04	N	BSL
Acenaphthylene	4.00E-03	1.70E-01	FOA1-Comp3 0-4	17 (41)	3.00E-03	2.10E+00				N	NSL
Anthracene	5.70E-03	4.10E-01	FOA-02-1-0-4	24 (41)	3.00E-03	2.10E+00			1.00E+05	N	BSL
Benzo(a)anthracene	7.00E-03	8.50E-01	FOA-02-1-0-4	33 (41)	3.00E-03	7.00E-01			2.10E+00	N	BSL
Benzo(a)pyrene	3.00E-03	1.40E+00	FOA1-Comp3 0-4	35 (41)	4.00E-03	2.10E+00	5	5	2.10E-01	Y	ASL
Benzo(b)fluoranthene	1.50E-02	2.00E+00	FOA1-Comp3 0-4	31 (34)	3.40E-01	3.80E-01			2.10E+00	N	BSL
Benzo(g,h,i)perylene	4.00E-03	1.00E+00	FOA1-Comp3 0-4	29 (41)	4.00E-03	2.10E+00				N	NSL
Benzo(k)fluoranthene	4.00E-03	1.50E+00	FOA1-Comp3 0-4	35 (41)	4.00E-03	2.10E+00			2.10E+01	N	BSL
Chrysene	3.00E-03	1.40E+00	FOA-02-1-0-4	37 (41)	3.40E-01	7.00E-01			2.10E+02	N	BSL
Dibenz(a,h)anthracene	3.00E-03	5.50E-01	FOA1-Comp3 0-4	21 (41)	3.00E-03	2.10E+00	13	13	2.10E-01	Y	ASL
Fluoranthene	6.00E-03	3.90E+00	FOA-02-1-0-4	37 (41)	3.40E-01	7.00E-01			2.20E+04	N	BSL
Fluorene	3.00E-03	9.60E-02	FOA-02-1-0-4	8 (41)	3.00E-03	2.10E+00			2.60E+04	N	BSL
Indeno(1,2,3-cd)pyrene	3.00E-03	1.40E+00	FOA1-Comp3 0-4	33 (41)	4.00E-03	2.10E+00			2.10E+00	N	BSL

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Naphthalene	7.50E-03	4.40E-02	FOA1-Comp3 0-4, FOA1-Comp1 0-4	11 (34)	4.40E-03	2.10E+00			1.90E+02	N	BSL
Phenanthrene	3.00E-03	7.80E-01	FOA-02-1-0-4	27 (41)	3.00E-03	2.10E+00				N	NSL
Pyrene	5.00E-03	2.30E+00	FOA-02-1-0-4	37 (41)	3.40E-01	7.00E-01			2.90E+04	N	BSL
Pesticides											
4,4'-DDD	1.20E-03	1.20E-03	FOA2-COMP1 0-4	1 (5)	3.40E-03	3.40E-03			1.00E+01	N	BSL
4,4'-DDE	1.10E-03	1.10E-03	FOA2-COMP1 0-4	1 (5)	3.40E-03	3.40E-03			7.00E+00	N	BSL
4,4'-DDT	7.50E-04	3.60E-03	FOA2-COMP1 0-4	3 (5)	3.40E-03	3.40E-03			7.00E+00	N	BSL
Semivolatile Organic Compounds (SVOCs)											
2-Methylnaphthalene	6.50E-03	4.10E-02	FOA1-Comp1 0-4	13 (34)	4.40E-03	2.10E+00				N	NSL
Bis(2-ethylhexyl)phthalate	4.70E-02	3.90E-01	SS-SEEP	3 (17)	3.40E-01	2.10E+00			1.20E+02	N	BSL
Carbazole	1.10E-02	8.00E-02	FOA2-COMP1 0-4	5 (10)	3.40E-01	2.10E+00			8.60E+01	N	BSL
p-Cresol	1.20E-02	1.20E-02	SS-SEEP	1 (17)	3.40E-01	2.10E+00			3.10E+03	N	BSL
Dibenzofuran	4.00E-03	1.20E-02	FOA2-COMP1 0-4, SS FPA-02	4 (24)	3.00E-03	2.10E+00			3.10E+03	N	BSL
Pentachlorophenol	9.00E-03	7.80E+00	FOA1-Comp5 4-12	30 (41)	2.00E-01	9.50E-01			9.00E+00	N	BSL
Volatile Organic Compounds (VOCs)											
Acetone	6.40E-02	1.60E-01	SS-FPA-02	7 (7)					6.00E+03	N	BSL
Benzaldehyde	1.00E+00	1.00E+00	SS-SEEP	1 (17)	2.20E-02	2.10E+00			6.20E+04	N	BSL
Carbon disulfide	2.00E-03	2.00E-03	SS-FPA-02	1 (7)	1.20E-02	3.10E-02			7.20E+02	N	BSL
Chloromethane	6.00E-03	1.60E-02	SS-FPB-01	3 (7)	1.10E-02	3.10E-02			2.60E+00	N	BSL
1,2-Dichloroethane	4.00E-03	4.00E-03	SS-FPB-01	1 (7)	1.10E-02	3.10E-02			6.00E-01	N	BSL
1,2-Dichloroethylene, cis-	3.00E-03	3.00E-03	SS-FSIL-02	1 (7)	1.10E-02	3.10E-02			1.50E+02	N	BSL
Methyl acetate	2.80E-02	3.10E-02	SS-SEEP	2 (7)	1.10E-02	1.40E-02			9.20E+04	N	BSL
1,1,1,2-Tetrachloroethane	3.00E-03	3.00E-03	SS-FPB-01, SS-SEEP	2 (7)	1.10E-02	1.40E-02			9.30E-01	N	BSL
Tetrachloroethylene	2.00E-03	2.00E-03	SS-FSIL-02, SS-FPB- 01	2 (7)	1.10E-02	3.10E-02			3.40E+00	N	BSL
1,1,2-Trichloroethane	7.00E-03	9.00E-03	SS-FPB-01, SS-FSIL- OW	3 (7)	1.10E-02	1.40E-02			1.60E+00	N	BSL

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Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Industrial Soil PRGs	COPC Flag (Y/N)	Rationale for Selection or Elimination
Trichloroethylene	4.00E-03	7.00E-03	SS-FSIL-02	2 (7)	1.10E-02	3.10E-02			1.10E-01	N	BSL
Toluene	1.00E-03	7.00E-03	SS-SEEP	3 (7)	1.20E-02	1.40E-02			5.20E+02	N	BSL

Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Individual dioxin/furan congeners not screened. 2,3,7,8-TCDD TEQ screened to determine dioxin/furan COPCs.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.

Table 6-2. Selection of Human Health COPCs for Area A North Storage Area Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	2.06E-04	2.62E-01	AB4-5-0-4	85 (85)						Y	NSL ^d
1,2,3,4,6,7,8-HpCDF	3.30E-05	5.98E-02	SS-J28-29	85 (85)						Y	NSL ^d
1,2,3,4,7,8,9-HpCDF	3.26E-06	5.44E-03	AB4-5-0-4	84 (85)	1.42E-03	1.42E-03				Y	NSL ^d
1,2,3,4,7,8-HxCDD	7.55E-07	1.38E-03	AB4-5-0-4	84 (85)	4.76E-07	4.76E-07				Y	NSL ^d
1,2,3,4,7,8-HxCDF	2.85E-06	9.16E-03	J26-27 0-4	85 (85)						Y	NSL ^d
1,2,3,6,7,8-HxCDD	7.19E-06	7.62E-03	AB4-5-0-4	85 (85)						Y	NSL ^d
1,2,3,6,7,8-HxCDF	1.16E-06	1.49E-03	J26-27 0-4	85 (85)						Y	NSL ^d
1,2,3,7,8,9-HxCDD	1.08E-06	2.31E-03	AB4-5-0-4	85 (85)						Y	NSL ^d
1,2,3,7,8,9-HxCDF	2.17E-07	2.45E-03	SS-B4-5	55 (85)	3.38E-07	4.64E-04				Y	NSL ^d
1,2,3,7,8-PCDD	5.49E-07	3.17E-04	AB4-5-0-4	84 (85)	1.70E-07	1.70E-07				Y	NSL ^d
1,2,3,7,8-PCDF	3.04E-07	1.03E-03	SS-B4-5	82 (85)	1.60E-07	1.10E-05				Y	NSL ^d
2,3,4,6,7,8-HxCDF	2.53E-06	2.45E-03	J26-27 0-4	85 (85)						Y	NSL ^d
2,3,4,7,8-PCDF	5.40E-07	2.81E-03	SS-B4-5	84 (85)	1.08E-05	1.08E-05				Y	NSL ^d
2,3,7,8-TCDD	4.20E-07	2.40E-05	AB4-5-0-4	66 (85)	1.28E-07	6.77E-06				Y	NSL ^d
2,3,7,8-TCDF	3.96E-07	2.68E-04	SS-B4-5	78 (85)	7.38E-08	1.19E-06				Y	NSL ^d
OCDD	1.42E-03	2.73E+00	AB4-5-0-4	85 (85)						Y	NSL ^d
OCDF	1.34E-04	3.52E-01	AB4-5-0-4	85 (85)						Y	NSL ^d
TEQDF-WHO98 (ND = 1/2 DL)	6.42E-06	5.74E-03	AB4-5-0-4	85 (85)				85	2.51E-06	Y	ASL
Metals											
Aluminum	2.24E+03	4.65E+03	E18-19 4-12	34 (34)					7.60E+04	N	BSL
Antimony	9.30E-01	1.80E+00	SS-A2-3	12 (34)	1.10E+00	1.34E+01			3.10E+01	N	BSL
Arsenic	7.80E-01	4.40E+00	A20-22 4-12	32 (34)	3.00E+00	3.30E+00	2	32	3.90E-01	Y	ASL
Barium	2.10E+01	8.23E+01	C3-4 4-12	34 (34)					5.40E+03	N	BSL
Beryllium	9.90E-02	2.10E-01	SS-A4-5	34 (34)					1.50E+02	N	BSL
Cadmium	1.10E-01	1.90E-01	SS-B1-2	3 (34)	7.60E-02	1.10E+00			3.70E+01	N	BSL
Calcium	7.25E+02	9.29E+03	SS-E28-29	32 (34)	1.09E+03	1.09E+03				N	NUTR
Chromium	3.80E+00	9.20E+00	E24-25 4-12	34 (34)					1.02E+02	N	BSL
Cobalt	2.10E+00	5.30E+00	D27-29 0-4	34 (34)					9.00E+02	N	BSL
Copper	1.50E+00	1.80E+01	SS-B4-5	34 (34)					3.10E+03	N	BSL

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Iron	3.58E+03	6.88E+03	SS-A25-26	34 (34)					2.30E+04	N	BSL, NUTR
Lead	3.00E+00	7.09E+01	SS-B1-2	34 (34)					4.00E+02	N	BSL
Magnesium	5.37E+02	5.41E+03	SS-E28-29	26 (34)	9.98E+02	1.05E+03				N	NUTR
Manganese	1.57E+02	5.08E+02	C3-4 4-12	34 (34)					1.80E+03	N	BSL
Mercury	6.10E-03	5.20E-02	SS-B1-2	18 (29)	5.70E-03	1.00E-01			2.30E+01	N	BSL
Nickel	3.40E+00	9.00E+00	A20-22 4-12	34 (34)					1.60E+03	N	BSL
Potassium	1.30E+02	4.26E+02	SS-B1-2	34 (34)						N	NUTR
Selenium	5.30E-01	5.30E-01	SS-A4-5	1 (34)	3.50E-01	7.80E+00			3.90E+02	N	BSL
Silver	1.90E-01	2.30E-01	SS-G9-10	3 (34)	1.50E-01	2.20E+00			3.90E+02	N	BSL
Sodium	8.87E+01	2.26E+02	C3-4 4-12	28 (34)	1.02E+03	1.11E+03				N	NUTR
Thallium	4.30E-01	9.90E-01	SS-B4-5	12 (34)	3.90E-01	5.60E+00	5		5.20E+00	N	BSL
Vanadium	6.00E+00	1.46E+01	E18-19 4-12	34 (34)					5.50E+02	N	BSL
Zinc	1.12E+01	4.55E+01	I19-20 0-4	34 (34)					2.30E+04	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	6.10E-03	4.10E-02	C23-24 0-4	10 (72)	3.00E-03	3.50E+00			3.70E+03	N	BSL
Acenaphthylene	3.00E-03	5.50E-01	DE8-9 0-4	43 (72)	4.00E-03	3.40E+00				N	NSL
Anthracene	5.00E-03	1.40E+00	DE8-9 0-4	50 (72)	4.00E-03	3.40E+00			2.20E+04	N	BSL
Benzo(a)anthracene	5.00E-03	6.10E+00	DE8-9 0-4	60 (72)	5.00E-03	3.40E+00	1	9	4.03E-01	Y	ASL
Benzo(a)pyrene	6.00E-03	7.70E+00	DE8-9 0-4	65 (72)	5.00E-03	3.50E-01	5	53	4.03E-02	Y	ASL
Benzo(b)fluoranthene	9.70E-03	1.80E+01	DE8-9 0-4	57 (59)	5.00E-03	3.40E-01		23	4.03E-01	Y	ASL
Benzo(g,h,i)perylene	4.00E-03	2.70E+00	DE8-9 0-4	41 (70)	4.00E-03	3.40E+00				N	NSL
Benzo(k)fluoranthene	8.00E-03	1.50E+01	DE8-9 0-4	69 (72)	5.00E-03	3.40E-01		3	4.03E+00	Y	ASL
Chrysene	6.40E-03	1.40E+01	DE8-9 0-4	69 (72)	5.00E-03	3.40E-01			4.03E+01	N	BSL
Dibenz(a,h)anthracene	2.00E-03	9.80E-01	DE8-9 4-12	36 (68)	3.00E-03	3.40E+00	26	21	4.03E-02	Y	ASL
Fluoranthene	5.70E-03	6.90E+00	C23-24 0-4	62 (72)	5.00E-03	3.40E-01			2.30E+03	N	BSL
Fluorene	4.50E-03	6.10E-02	C23-24 0-4	17 (72)	3.00E-03	3.50E+00			2.70E+03	N	BSL
Indeno(1,2,3-cd)pyrene	6.00E-03	4.80E+00	DE8-9 0-4	61 (72)	5.00E-03	3.40E+00	1	13	4.03E-01	Y	ASL
Naphthalene	5.80E-03	1.90E-01	A20-22 0-4	32 (59)	5.00E-03	3.50E+00			5.60E+01	N	BSL
Phenanthrene	4.00E-03	1.20E+00	SS-B1-2, C23-24 0-4	48 (72)	5.00E-03	3.50E+00				N	NSL

Table 6-2. Selection of Human Health COPCs for Area A North Storage Area Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Pyrene	5.30E-03	1.60E+01	SS-J28-29	61 (72)	5.00E-03	3.60E-01			2.30E+03	N	BSL
Pesticides											
4,4'-DDD	1.40E-03	4.20E-03	DE8-9 4-12	2 (7)	3.40E-03	3.50E-03			1.61E+00	N	BSL
4,4'-DDE	1.30E-03	2.30E-03	I19-20 0-4	5 (7)	3.40E-03	3.40E-03			1.14E+00	N	BSL
4,4'-DDT	1.60E-03	8.70E-03	I19-20 0-4	6 (7)	3.50E-03	3.50E-03			1.14E+00	N	BSL
Semivolatile Organic Compounds (SVOCs)											
Biphenyl	1.20E-02	1.20E-02	A12-14 4-12	1 (32)	3.30E-01	3.50E+00			3.50E+02	N	BSL
Bis(2-ethylhexyl)phthalate	1.10E-02	4.80E-02	D27-29 0-4D	4 (32)	3.30E-01	3.50E+00			2.26E+01	N	BSL
Butyl benzyl phthalate	4.10E-02	4.10E-02	SS-G9-10	1 (32)	3.30E-01	3.50E+00			1.20E+04	N	BSL
Carbazole	1.70E-02	1.20E-01	F27-29 4-12	8 (12)	3.40E-01	3.50E+00			1.58E+01	N	BSL
p-Cresol	1.90E-02	1.90E-02	F27-29 4-12	1 (32)	3.30E-01	3.50E+00			3.10E+02	N	BSL
Dibenzofuran	3.00E-03	4.00E-02	A12-14 4-12	5 (45)	3.00E-03	3.50E+00			2.90E+02	N	BSL
2,4-Dimethylphenol	1.40E-02	1.40E-02	F27-29 4-12	1 (32)	3.30E-01	3.50E+00			1.20E+03	N	BSL
2,4-Dinitrotoluene	2.00E+00	2.00E+00	SS-E21-22	1 (20)	3.40E-01	3.50E+00				N	NSL
Di-n-octyl phthalate	1.50E-02	7.10E-02	C23-24 0-4	2 (24)	3.40E-01	3.50E+00			2.40E+03	N	BSL
2-Methylnaphthalene	5.70E-03	2.00E-01	A20-22 0-4	32 (59)	5.00E-03	3.50E+00				N	NSL
4-Nitrophenol	2.90E+00	2.90E+00	SS-E21-22	1 (20)	8.50E-01	8.70E+00				N	NSL
Pentachlorophenol	2.00E-02	4.90E+01	SS-J28-29	58 (68)	5.10E-02	8.70E+00	2	10	1.91E+00	Y	ASL
Volatile Organic Compounds (VOCs)											
Acetone	4.30E-02	1.80E-01	SS-G9-10	17 (20)	1.10E-02	1.10E-02			1.60E+03	N	BSL
Benzaldehyde	3.40E-02	2.00E-01	SS-I24-25	6 (31)	3.30E-01	3.50E+00			6.10E+03	N	BSL
Chlorobenzene	2.00E-03	2.00E-03	SS-E21-22	1 (20)	9.00E-03	1.90E-02			1.50E+02	N	BSL
1,2-Dichloroethane	1.00E-03	6.00E-03	SS-C14-16	5 (20)	9.00E-03	1.90E-02			1.35E-01	N	BSL
1,2-Dichloroethylene, cis-	2.00E-03	2.00E-03	SS-C14-16	1 (20)	9.00E-03	1.90E-02			4.30E+01	N	BSL
Methyl acetate	1.20E-02	6.50E-02	SS-G9-10	3 (20)	9.00E-03	1.50E-02			2.20E+04	N	BSL
Methyl ethyl ketone	6.00E-03	2.40E-02	SS-B4-5	5 (20)	1.00E-02	1.90E-02			7.30E+03	N	BSL
1,1,2,2-Tetrachloroethane	1.00E-03	3.00E-03	SS-A2-3	10 (20)	1.00E-02	1.90E-02			2.03E-01	N	BSL
Tetrachloroethylene	1.00E-03	1.00E-03	SS-G16-17	1 (20)	9.00E-03	1.90E-02			7.50E-01	N	BSL
1,1,2-Trichloroethane	1.00E-03	8.00E-03	SS-E21-22	16 (20)	1.10E-02	1.20E-02			3.57E-01	N	BSL
Trichloroethylene	1.00E-03	5.00E-03	SS-E21-22	6 (20)	9.00E-03	1.50E-02			2.57E-02	N	BSL

Table 6-2. Selection of Human Health COPCs for Area A North Storage Area Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
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Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Residential PRGs for soil were modified as described in Section 6.1 to account for an increased exposure duration of 70 years (6 years as a child and 64 years as an adult) reflective of a traditional Native American lifestyle. Note: noncarcinogenic effect-based PRGs were not affected by this modification.

^d Individual dioxin/furan congeners not screened. 2,3,7,8-TCDD TEQ screened to determine dioxin/furan COPCs.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.

Table 6-3. Selection of Human Health COPCs for Area A Residential Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	2.40E-04	1.03E-02	RES16A 0-4	49 (49)						Y	NSL ^d
1,2,3,4,6,7,8-HpCDF	4.76E-05	3.48E-03	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,4,7,8,9-HpCDF	3.36E-06	4.00E-04	SS-RES16	48 (49)	4.447E-06	4.447E-06				Y	NSL ^d
1,2,3,4,7,8-HxCDD	1.95E-06	9.25E-05	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,4,7,8-HxCDF	1.52E-06	4.05E-04	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,6,7,8-HxCDD	8.33E-06	4.63E-04	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,6,7,8-HxCDF	1.82E-06	3.28E-04	SS-RES16	48 (49)	4.532E-06	4.532E-06				Y	NSL ^d
1,2,3,7,8,9-HxCDD	4.29E-06	2.45E-04	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,7,8,9-HxCDF	6.93E-07	1.03E-04	SS-RES16	43 (49)	3.36E-07	6.56E-06				Y	NSL ^d
1,2,3,7,8-PCDD	6.05E-07	1.33E-04	SS-RES16	49 (49)						Y	NSL ^d
1,2,3,7,8-PCDF	6.05E-07	3.37E-05	SS-RES16	44 (48)	3.12E-07	9.06E-07				Y	NSL ^d
2,3,4,6,7,8-HxCDF	3.52E-06	2.07E-04	SS-RES16	46 (49)	2.651E-06	1.44E-05				Y	NSL ^d
2,3,4,7,8-PCDF	5.29E-07	1.96E-04	SS-RES16	45 (49)	1.38E-07	8.26E-07				Y	NSL ^d
2,3,7,8-TCDD	3.77E-07	1.58E-06	SS-RES6	13 (49)	9.5E-08	9.24E-07				Y	NSL ^d
2,3,7,8-TCDF	3.48E-07	2.46E-05	SS-RES16	31 (49)	3.47E-07	1.89E-06				Y	NSL ^d
OCDD	1.82E-03	1.02E-01	RES16A 0-4	49 (49)						Y	NSL ^d
OCDF	1.04E-04	1.08E-02	RES16A 0-4	49 (49)						Y	NSL ^d
TEQDF-WHO98 (ND = 1/2 DL)	7.97E-06	4.85E-04	SS-RES16	49 (49)				49	2.51E-06	Y	ASL
Metals											
Aluminum	2.38E+03	4.52E+03	RES24 4-12	22 (22)					7.60E+04	N	BSL
Antimony	9.20E+00	8.37E+01	SS-RES9	2 (22)	1.20E+00	1.26E+01		1	3.10E+01	N	LFD
Arsenic	1.50E-01	1.50E+01	SS-RES16	19 (22)	1.20E-01	3.10E+00	1	16	2.57E-01	Y	ASL
Barium	2.81E+01	1.48E+02	SS-RES11	22 (22)					5.40E+03	N	BSL
Beryllium	5.00E-02	2.00E-01	SS-RES1	22 (22)					1.50E+02	N	BSL
Cadmium	1.30E-01	9.40E-01	SS-RES14	18 (22)	8.40E-02	1.00E+00			3.70E+01	N	BSL
Calcium	1.01E+03	8.36E+03	SS-RES13	22 (22)						N	NUTR
Chromium	5.10E+00	1.45E+01	SS-RES1	22 (22)					1.02E+02	N	BSL
Cobalt	2.30E+00	5.00E+00	NWWD-02 4-12	22 (22)					9.00E+02	N	BSL

Table 6-3. Selection of Human Health COPCs for Area A Residential Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Copper	2.90E+00	2.10E+01	SS-RES13	22 (22)					3.10E+03	N	BSL
Iron	4.17E+03	1.21E+04	SS-RES1	22 (22)					2.30E+04	N	BSL, NUTR
Lead	4.90E+00	6.93E+02	SS-RES9	22 (22)				1	4.00E+02	N	LFD
Magnesium	5.96E+02	1.58E+03	SS-RES4	20 (22)	1.02E+03	1.05E+03				N	NUTR
Manganese	1.98E+02	5.80E+02	SS-RES9	22 (22)					1.80E+03	N	BSL
Mercury	1.00E-02	8.90E-02	SS-RES19	20 (22)	1.00E-01	1.00E-01			2.30E+01	N	BSL
Nickel	4.00E+00	7.50E+00	SS-RES9	22 (22)					1.60E+03	N	BSL
Potassium	2.54E+02	6.42E+02	SS-RES1	22 (22)						N	NUTR
Silver	1.90E-01	1.90E-01	SS-RES6	1 (22)	1.60E-01	2.10E+00			3.90E+02	N	BSL
Sodium	6.93E+01	1.72E+02	RES24 4-12	21 (22)	1.02E+03	1.02E+03				N	NUTR
Thallium	4.70E-01	1.20E+00	SS-RES13, SS-RES2, SS-RES9	18 (22)	5.50E-01	5.20E+00			5.20E+00	N	BSL
Vanadium	6.90E+00	1.23E+01	RES24 4-12, SS-RES1	22 (22)					5.50E+02	N	BSL
Zinc	2.01E+01	1.83E+02	SS-RES11	22 (22)					2.30E+04	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	2.00E-03	4.10E-03	SS-RES10	4 (47)	1.30E-03	3.90E-01			3.70E+03	N	BSL
Acenaphthylene	8.10E-03	4.10E-02	NWWD-02 4-12	10 (47)	1.50E-03	3.90E-01				N	NSL
Anthracene	6.00E-03	9.00E-02	SS-RES13	14 (47)	1.70E-03	3.90E-01			2.20E+04	N	BSL
Benzo(a)anthracene	6.00E-03	1.10E+00	SS-RES13	45 (48)	3.40E-01	3.70E-01		2	4.03E-01	Y	ASL
Benzo(a)pyrene	6.80E-03	1.10E+00	SS-RES13	44 (48)	1.50E-01	3.70E-01	4	36	4.03E-02	Y	ASL
Benzo(b)fluoranthene	1.30E-02	1.10E+00	SS-RES19	28 (30)	3.40E-01	3.70E-01		4	4.03E-01	Y	ASL
Benzo(g,h,i)perylene	8.00E-03	8.10E-01	SS-RES19	45 (48)	3.40E-01	3.70E-01				N	NSL
Benzo(k)fluoranthene	9.00E-03	1.20E+00	SS-RES13	46 (48)	3.40E-01	3.70E-01			4.03E+00	N	BSL
Chrysene	1.50E-02	1.30E+00	SS-RES13	46 (48)	3.40E-01	3.70E-01			4.03E+01	N	BSL
Dibenz(a,h)anthracene	1.30E-02	8.60E-02	SS-RES13	13 (47)	1.80E-03	3.90E-01	25	2	4.03E-02	Y	ASL
Fluoranthene	1.80E-02	3.00E+00	SS-RES13	46 (48)	3.40E-01	3.70E-01			2.30E+03	N	BSL
Fluorene	2.10E-03	5.40E-03	SS-RES10	6 (47)	1.20E-03	3.90E-01			2.70E+03	N	BSL
Indeno(1,2,3-cd)pyrene	8.00E-03	7.60E-01	SS-RES19	44 (48)	3.80E-02	3.70E-01		2	4.03E-01	Y	ASL

Table 6-3. Selection of Human Health COPCs for Area A Residential Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Naphthalene	4.00E-03	5.30E-02	SS-RES18	9 (29)	3.30E-01	3.90E-01			5.60E+01	N	BSL
Phenanthrene	6.00E-03	7.00E-01	SS-RES13	43 (48)	3.40E-01	3.80E-01				N	NSL
Pyrene	1.40E-02	1.90E+00	SS-RES13	46 (48)	3.40E-01	3.70E-01			2.30E+03	N	BSL
Pesticides											
4,4'-DDE	7.00E-04	7.20E-03	NWWD-02 4-12	2 (2)					1.14E+00	N	BSL
4,4'-DDT	2.00E-03	7.60E-03	NWWD-02 4-12	2 (2)					1.14E+00	N	BSL
Semivolatile Organic Compounds (SVOCs)											
Bis(2-ethylhexyl)phthalate	3.80E-02	2.60E-01	SS-RES1	12 (22)	3.40E-01	3.90E-01			2.26E+01	N	BSL
Carbazole	1.00E-02	1.00E-02	NWWD-02 4-12	1 (2)	3.40E-01	3.40E-01			1.58E+01	N	BSL
2-Chlorophenol	1.40E+00	1.40E+00	SS-RES16	1 (21)	3.30E-01	3.90E-01			6.30E+01	N	BSL
Dibenzofuran	3.00E-03	6.00E-03	SS-RES14	2 (39)	7.00E-03	3.90E-01			2.90E+02	N	BSL
Di-n-butyl phthalate	4.30E-02	4.30E-02	SS-RES13	1 (21)	3.30E-01	3.90E-01			6.10E+03	N	BSL
2,4-Dinitrotoluene	1.50E+00	1.50E+00	SS-RES16	1 (21)	3.30E-01	3.90E-01				N	NSL
Di-n-octyl phthalate	2.00E+00	2.00E+00	SS-RES1	1 (22)	3.30E-01	3.90E-01			2.40E+03	N	BSL
2-Methylnaphthalene	4.30E-03	7.50E-02	SS-RES18	8 (29)	5.00E-03	3.90E-01				N	NSL
N-Nitrosodi-n-propylamine	9.50E-01	9.50E-01	SS-RES16	1 (21)	3.30E-01	3.90E-01				N	NSL
Pentachlorophenol	2.20E-02	1.90E+00	SS-RES16	21 (32)	1.10E-01	9.80E-01			1.91E+00	N	BSL
Phenol	1.10E-01	3.10E-01	SS-RES14	2 (19)	7.00E-03	3.70E-01			3.70E+04	N	BSL
Volatile Organic Compounds (VOCs)											
Acetone	4.50E-02	5.10E-01	SS-RES15	16 (20)	6.20E-02	8.70E-02			1.60E+03	N	BSL
Benzaldehyde	4.30E-02	4.30E-02	SS-RES1	1 (8)	3.40E-01	3.90E-01			6.10E+03	N	BSL
Benzene	2.00E-03	3.30E-02	SS-RES9	3 (20)	1.00E-02	2.60E-02			2.94E-01	N	BSL
Carbon disulfide	2.00E-03	5.00E-03	SS-RES8	6 (20)	1.00E-02	2.60E-02			3.60E+02	N	BSL
Carbon tetrachloride	2.00E-03	2.00E-03	SS-RES5	1 (20)	1.00E-02	2.60E-02			1.23E-01	N	BSL
Chlorobenzene	3.00E-03	3.00E-03	SS-RES20	1 (19)	1.00E-02	1.70E-02			1.50E+02	N	BSL

Table 6-3. Selection of Human Health COPCs for Area A Residential Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Chloroform	1.00E-03	1.00E-03	SS-RES5	1 (20)	1.00E-02	2.60E-02			1.69E+00	N	BSL
Chloromethane	7.00E-03	3.00E-02	SS-RES20	8 (20)	1.00E-02	1.50E-02			5.96E-01	N	BSL
1,2-Dichloroethane	2.00E-03	1.40E-02	SS-RES5	2 (20)	1.00E-02	2.60E-02			1.35E-01	N	BSL
1,2-Dichloroethylene, cis-	5.00E-03	5.00E-03	SS-RES5	1 (20)	1.00E-02	2.60E-02			4.30E+01	N	BSL
Ethyl benzene	5.00E-03	5.00E-03	SS-RES9	1 (19)	1.00E-02	2.60E-02			8.90E+00	N	BSL
Methyl acetate	1.80E-02	2.60E-01	SS-RES11	10 (20)	1.00E-02	2.60E-02			2.20E+04	N	BSL
Methyl ethyl ketone	1.00E-02	1.30E-02	SS-RES1	3 (20)	1.00E-02	2.60E-02			7.30E+03	N	BSL
Methyl ethyl ketone	1.00E-02	1.30E-02	SS-RES5	3 (20)	1.00E-02	2.60E-02			7.30E+03	N	BSL
Methyl isobutyl ketone	7.10E-02	7.10E-02	SS-RES18	1 (19)	1.00E-02	2.60E-02			7.90E+02	N	BSL
Methylcyclohexane	3.00E-03	7.00E-03	SS-RES14	2 (20)	1.00E-02	2.60E-02			2.60E+03	N	BSL
Tetrachloroethylene	2.00E-03	2.00E-03	SS-RES5	1 (19)	1.00E-02	2.60E-02			7.50E-01	N	BSL
1,1,2,2-Tetrachloroethane	2.00E-03	2.00E-03	SS-RES5	1 (19)	1.00E-02	2.60E-02			2.03E-01	N	BSL
Toluene	1.00E-03	2.80E-02	SS-RES9	10 (20)	1.00E-02	2.60E-02			5.20E+02	N	BSL
1,1,2-Trichloroethane	1.00E-03	1.50E-02	SS-RES5	4 (20)	1.00E-02	2.60E-02			3.57E-01	N	BSL
Trichloroethylene	2.00E-03	1.10E-02	SS-RES5	2 (20)	1.00E-02	2.60E-02			2.57E-02	N	BSL
Xylenes, Total	1.00E-03	3.00E-03	SS-RES9	3 (20)	1.00E-02	2.60E-02			2.70E+02	N	BSL

Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Residential PRGs for soil were modified as described in Section 6.1 to account for an increased exposure duration of 70 years (6 years as a child and 64 years as an adult) reflective of a traditional Native American lifestyle. Note: noncarcinogenic effect-based PRGs were not affected by this modification.

^d Individual dioxin/furan congeners not screened. 2,3,7,8-TCDD TEQ screened to determine dioxin/furan COPCs.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

LFD = This analyte is not expected to be site-related and was detected at a concentration exceeding the benchmark in only one residential soil sample.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.

Table 6-4. Selection of Human Health COPCs for Area B Southwest Area and Former City Dump Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Industrial Soil PRGs	COPC Flag (Y/N)	Rationale for Selection or Elimination
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDD	1.04E-03	1.73E-01	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,4,6,7,8-HpCDF	2.57E-04	2.08E-02	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,4,7,8,9-HpCDF	2.02E-05	1.93E-03	SS-SW7	11 (13)	6.64E-04	1.04E-03				Y	NSL ^c
1,2,3,4,7,8-HxCDD	6.84E-06	6.00E-04	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,4,7,8-HxCDF	3.48E-05	5.46E-04	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,6,7,8-HxCDD	4.50E-05	4.71E-03	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,6,7,8-HxCDF	1.33E-05	2.43E-04	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,7,8,9-HxCDD	1.26E-05	1.24E-03	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,7,8,9-HxCDF	4.12E-06	1.95E-04	SS-SW32	8 (13)	1.56E-05	2.21E-05				Y	NSL ^c
1,2,3,7,8-PCDD	2.44E-06	2.61E-04	SS-SW7	13 (13)						Y	NSL ^c
1,2,3,7,8-PCDF	4.53E-06	1.23E-04	SS-SW37	13 (13)						Y	NSL ^c
2,3,4,6,7,8-HxCDF	1.55E-05	6.18E-04	SS-SW7	13 (13)						Y	NSL ^c
2,3,4,7,8-PCDF	8.20E-06	1.23E-04	SS-SW37	13 (13)						Y	NSL ^c
2,3,7,8-TCDD	6.04E-07	2.11E-05	SS-SW37	6 (13)	3.59E-07	8.10E-07				Y	NSL ^c
2,3,7,8-TCDF	6.74E-07	1.43E-05	SS-SW7	11 (13)	1.01E-06	6.06E-06				Y	NSL ^c
OCDD	7.43E-03	5.17E-01	SW-41 0-4	13 (13)						Y	NSL ^c
OCDF	5.50E-04	6.01E-02	SW-7 4-12	13 (13)						Y	NSL ^c
TEQDF-WHO98 (ND = 1/2 DL)	4.20E-05	3.14E-03	SS-SW7	13 (13)				13	1.60E-05	Y	ASL
Metals											
Aluminum	2.44E+03	3.06E+03	SS-SW1	7 (7)					1.00E+05	N	BSL
Antimony	1.20E+00	2.70E+00	SS-SW37	4 (7)	8.40E-01	1.50E+00			4.10E+02	N	BSL
Arsenic	6.30E-01	2.70E+00	SS-SW1	7 (7)				3	1.60E+00	Y	ASL
Barium	2.41E+01	1.04E+02	SS-SW32	7 (7)					6.70E+04	N	BSL
Beryllium	1.10E-01	1.40E-01	SS-SW1	7 (7)					1.90E+03	N	BSL
Cadmium	3.30E-01	7.30E-01	SS-SW32	4 (7)	8.10E-02	8.80E-02			4.50E+02	N	BSL
Calcium	6.35E+02	5.44E+03	SS-SW32	7 (7)						N	NUTR
Chromium	4.80E+00	4.06E+01	SS-SW35	7 (7)					4.50E+02	N	BSL
Cobalt	2.60E+00	3.60E+00	SS-SW1	7 (7)					1.90E+03	N	BSL
Copper	3.10E+00	1.07E+01	SS-FCDP-01	7 (7)					4.10E+04	N	BSL

Table 6-4. Selection of Human Health COPCs for Area B Southwest Area and Former City Dump Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Industrial Soil PRGs	COPC Flag (Y/N)	Rationale for Selection or Elimination
Iron	4.34E+03	5.19E+03	SS-FCDP-01	7 (7)					1.00E+05	N	BSL, NUTR
Lead	5.70E+00	1.90E+02	SS-SW35	7 (7)					7.50E+02	N	BSL
Magnesium	5.96E+02	9.83E+02	SS-SW1	7 (7)						N	NUTR
Manganese	1.63E+02	5.08E+02	SS-SW32	7 (7)					1.90E+04	N	BSL
Mercury	1.20E-02	4.40E-02	SS-SW32	7 (7)					3.10E+02	N	BSL
Nickel	3.90E+00	5.30E+00	SS-SW1	7 (7)					2.00E+04	N	BSL
Potassium	2.67E+02	9.16E+02	SS-FCDP-01	7 (7)						N	NUTR
Sodium	8.91E+01	1.58E+02	SS-SW32	7 (7)						N	NUTR
Thallium	4.50E-01	1.10E+00	SS-SW32	5 (7)	1.50E-01	4.20E-01			6.70E+01	N	BSL
Vanadium	6.70E+00	8.60E+00	SS-SW1	7 (7)					7.20E+03	N	BSL
Zinc	1.45E+01	2.25E+02	SS-SW35	7 (7)					1.00E+05	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	1.00E-03	1.00E-02	SW-44 0-4	3 (13)	1.30E-03	6.70E-01			2.90E+04	N	BSL
Acenaphthylene	2.00E-03	1.00E-01	SS-SW3	8 (13)	3.30E-01	6.70E-01				N	NSL
Anthracene	4.00E-03	2.50E-01	SS-SW32	9 (13)	3.40E-01	6.70E-01			1.00E+05	N	BSL
Benzo(a)anthracene	7.00E-03	6.70E-01	SW-44 0-4	12 (13)	3.70E-01	3.70E-01			2.10E+00	N	BSL
Benzo(a)pyrene	9.00E-03	7.50E-01	SS-SW32	12 (13)	3.70E-01	3.70E-01	1	6	2.10E-01	Y	ASL
Benzo(b)fluoranthene	4.10E-02	3.20E+00	SS-SW32	9 (9)				1	2.10E+00	Y	ASL
Benzo(g,h,i)perylene	3.00E-03	4.40E-01	SW-44 0-4	5 (13)	4.00E-03	6.70E-01				N	NSL
Benzo(k)fluoranthene	8.00E-03	1.60E+00	SS-SW32	12 (13)	3.70E-01	3.70E-01			2.10E+01	N	BSL
Chrysene	1.10E-02	1.30E+00	SS-SW32	12 (13)	3.70E-01	3.70E-01			2.10E+02	N	BSL
Dibenz(a,h)anthracene	2.00E-03	1.10E-01	SW-44 0-4	5 (10)	4.00E-03	6.70E-01	4		2.10E-01	Y	ASL
Fluoranthene	2.50E-02	1.50E+00	SW-44 0-4	10 (13)	3.70E-01	8.20E-01			2.20E+04	N	BSL
Fluorene	1.50E-03	1.50E-02	SW-44 0-4	4 (13)	4.00E-03	6.70E-01			2.60E+04	N	BSL
Indeno(1,2,3-cd)pyrene	5.00E-03	7.40E-01	SW-44 0-4	12 (13)	3.70E-01	3.70E-01			2.10E+00	N	BSL
Naphthalene	1.90E-02	2.00E-02	SS-FCDP-01	2 (8)	3.30E-01	3.70E-01			1.90E+02	N	BSL
Phenanthrene	1.00E-02	3.50E-01	SW-44 0-4	10 (13)	3.40E-01	6.70E-01				N	NSL
Pyrene	4.90E-02	1.20E+00	SW-44 0-4	8 (13)	1.30E-02	1.00E+00			2.90E+04	N	BSL

Table 6-4. Selection of Human Health COPCs for Area B Southwest Area and Former City Dump Soil

Chemical ^a (mg/kg)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Industrial Soil PRGs	COPC Flag (Y/N)	Rationale for Selection or Elimination
Semivolatile Organic Compounds (SVOCs)											
Bis(2-ethylhexyl)phthalate	3.80E-02	5.90E-02	SS-FCDP-01	2 (7)	3.30E-01	3.70E-01			1.20E+02	N	BSL
4-Chloro-3-methylphenol	2.40E+00	2.40E+00	SS-SW37	1 (7)	3.30E-01	3.70E-01				N	NSL
Dibenzofuran	2.00E-03	6.00E-03	SS-FCDP-01	2 (12)	4.00E-03	6.70E-01			3.10E+03	N	BSL
2,4-Dinitrotoluene	1.50E+00	1.50E+00	SS-SW37	1 (2)	3.40E-01	3.40E-01				N	NSL
2-Methylnaphthalene	8.80E-03	8.80E-03	SW-44 0-4	2 (7)	3.30E-01	3.70E-01				N	NSL
4-Nitrophenol	3.50E+00	3.50E+00	SS-SW37	1 (2)	8.60E-01	8.60E-01				N	NSL
Pentachlorophenol	3.80E-02	2.30E+01	SS-SW7	11 (11)				1	9.00E+00	Y	ASL
Volatile Organic Compounds (VOCs)											
Acetone	6.80E-02	2.90E-01	SS-SW32	7 (7)					6.00E+03	N	BSL
Benzaldehyde	3.40E-02	9.20E-01	SS-SW32	5 (6)					6.20E+04	N	BSL
Methyl acetate	5.00E-03	5.00E-03	SS-SW1	1 (7)	1.20E-02	3.30E-02			9.20E+04	N	BSL
Methyl ethyl ketone	1.10E-02	3.40E-02	SS-SW32	4 (7)	1.20E-02	2.20E-02			2.70E+04	N	BSL
1,1,2,2-Tetrachloroethane	1.00E-03	6.00E-03	SS-SW32	4 (7)	1.20E-02	2.20E-02			9.30E-01	N	BSL
1,1,2-Trichloroethane	3.00E-03	4.00E-03	SS-SW32	4 (7)	1.60E-02	1.70E-02			1.60E+00	N	BSL

Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Individual dioxin/furan congeners not screened. 2,3,7,8-TCDD TEQ screened to determine dioxin/furan COPCs.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.

Table 6-5. Selection of Human Health COPCs for Area B Sediment

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Dioxins/Furans (ng/kg)											
1,2,3,4,6,7,8-HpCDD	1.70E+00	3.29E+03	SD-FCCD-01	26 (26)						Y	NSL ^d
1,2,3,4,6,7,8-HpCDF	2.37E-01	4.41E+02	SD-FCCD-01	26 (26)						Y	NSL ^d
1,2,3,4,7,8,9-HpCDF	1.75E+00	3.11E+01	SD-FCCD-01	14 (26)	1.16E-01	2.01E+00				Y	NSL ^d
1,2,3,4,7,8-HxCDD	9.05E-01	2.50E+01	SD-FCCD-01	15 (26)	2.19E-01	3.53E+00				Y	NSL ^d
1,2,3,4,7,8-HxCDF	1.55E+00	4.09E+01	SD-FCCD-01	16 (26)	2.07E-01	5.29E-01				Y	NSL ^d
1,2,3,6,7,8-HxCDD	3.66E-01	1.00E+02	SD-FCCD-01	19 (26)	2.44E-01	4.79E-01				Y	NSL ^d
1,2,3,6,7,8-HxCDF	1.25E-01	5.16E+01	SD-FCCD-03	17 (26)	2.83E-01	5.19E-01				Y	NSL ^d
1,2,3,7,8,9-HxCDD	2.05E+00	5.18E+01	SD-FCCD-01	15 (26)	4.33E-01	4.42E+00				Y	NSL ^d
1,2,3,7,8,9-HxCDF	9.13E-01	1.72E+01	SD-FCCD-03	12 (26)	2.49E-01	2.37E+00				Y	NSL ^d
1,2,3,7,8-PCDD	1.36E+00	1.34E+01	SD-FCCD-01	10 (26)	2.19E-01	2.43E+00				Y	NSL ^d
1,2,3,7,8-PCDF	9.39E-01	7.28E+00	SD-FCCD-02	11 (26)	2.47E-01	1.07E+01				Y	NSL ^d
2,3,4,6,7,8-HxCDF	1.14E+00	9.93E+01	SD-FCCD-03	16 (26)	2.50E-01	5.94E-01				Y	NSL ^d
2,3,4,7,8-PCDF	1.53E+00	1.62E+02	SD-FCCD-03	13 (26)	1.81E-01	2.64E+00				Y	NSL ^d
2,3,7,8-TCDD	1.47E+00	1.92E+01	SD-FCCD-01	7 (26)	8.79E-02	1.25E+00				Y	NSL ^d
2,3,7,8-TCDF	2.47E-01	1.78E+01	SD-FCCD-03	15 (26)	6.10E-02	1.04E+00				Y	NSL ^d
OCDD	8.61E+00	3.46E+04	SD-FCCD-01	26 (26)						Y	NSL ^d
OCDF	6.82E-01	1.42E+03	SD-FCCD-01	26 (26)						Y	NSL ^d
TEQDF-WHO98 (ND = 1/2 DL)	4.00E-01	1.76E+02	SD-FCCD-01	26 (26)				4	47.7	Y	ASL
Metals (mg/kg)											
Aluminum	5.63E+02	8.24E+03	SD-FCCD-03	32 (32)					1.44E+05	N	BSL
Antimony	2.00E-01	8.00E+00	SD-RR-03	6 (32)	6.40E-01	1.06E+01			5.89E+01	N	BSL
Arsenic	4.90E-01	3.06E+01	SD-FCCD-03	12 (32)	4.60E-01	1.79E+01	10	7	4.94E-01	Y	ASL
Barium	7.80E+00	2.16E+02	SD-CLDH-02	32 (32)					1.03E+04	N	BSL
Beryllium	1.30E-01	1.20E+00	SD-FCCD-03, SD-FCCD-05	13 (32)	8.00E-02	1.30E+00			2.85E+02	N	BSL
Cadmium	3.00E-01	1.26E+01	SD-FCCD-03	11 (32)	1.00E-01	1.80E+00			7.03E+01	N	BSL
Calcium	2.34E+03	2.16E+05	SD-CLDH-01	32 (32)						N	NUTR
Chromium	1.20E+00	4.34E+01	SD-FCCD-03	30 (32)	3.40E+00	3.70E+00			1.94E+02	N	BSL
Cobalt	5.00E-01	1.04E+01	SD-FCCD-03	20 (32)	2.40E+00	6.20E+00			1.71E+03	N	BSL

Table 6-5. Selection of Human Health COPCs for Area B Sediment

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Copper	5.00E-01	5.23E+02	SD-FCCD-03	31 (32)	6.40E+00	6.40E+00			5.89E+03	N	BSL
Iron	9.16E+02	2.16E+04	SD-FCCD-03	32 (32)					4.37E+04	N	BSL, NUTR
Lead	6.50E-01	4.93E+02	SD-FCCD-03	31 (32)	5.50E-01	5.50E-01			7.60E+02	N	BSL
Magnesium	3.33E+02	5.77E+03	SD-PBDH-01	32 (32)						N	NSL
Manganese	2.30E+01	2.52E+03	SD-FCD-01	32 (32)					3.42E+03	N	BSL
Mercury	6.00E-02	1.11E+01	SD-FCCD-03	11 (32)	6.00E-02	1.10E+00			4.37E+01	N	BSL
Nickel	9.20E-01	2.64E+01	SD-FCCD-03	23 (32)	5.00E+00	8.80E+00			3.04E+04	N	BSL
Potassium	9.72E+01	1.23E+03	SD-FCCD-05	32 (32)						N	NUTR
Selenium	1.00E+00	1.24E+01	SD-FCCD-03	11 (32)	5.60E-01	1.38E+01			7.41E+02	N	BSL
Silver	1.30E-01	8.07E+01	SD-FCCD-03	14 (32)	1.60E-01	3.80E+00				N	NSL
Sodium	8.92E+01	3.37E+03	SD-PBDH-01	32 (32)						N	NSL
Thallium	6.00E-02	3.50E-01	SD-FCCD-03	5 (32)	8.90E-01	1.49E+01			9.88E+00	N	BSL
Vanadium	1.30E+00	3.43E+01	SD-FCCD-03	32 (32)					1.04E+03	N	BSL
Zinc	2.70E+00	4.09E+03	SD-FCCD-03	32 (32)					4.37E+04	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs) (µg/kg)											
Acenaphthene	1.40E+01	1.60E+02	SD-HWY-03	19 (46)	2.20E+00	1.70E+02			7.03E+06	N	BSL
Acenaphthylene	6.30E+00	6.90E+02	SD-FCCD-03	19 (46)	2.20E+00	2.40E+02				N	NSL
Anthracene	1.60E+01	1.00E+03	SD-HWY-03	20 (46)	2.20E+00	6.70E+02			4.18E+07	N	BSL
Benzo(a)anthracene	8.80E-01	4.00E+03	SD-HWY-03	33 (46)	2.20E+00	4.80E+02			7.65E+02	Y	ASL
Benzo(a)pyrene	8.50E-01	3.80E+03	SD-HWY-03	29 (46)	2.00E+01	4.70E+02		3	7.65E+01	Y	ASL
Benzo(b)fluoranthene	6.70E-01	5.70E+03	SD-FCCD-03	35 (46)	1.30E+02	4.70E+02			7.65E+02	Y	ASL
Benzo(g,h,i)perylene	6.20E-01	2.50E+03	SD-FCCD-03	31 (46)	1.60E+02	5.90E+02				N	NSL
Benzo(k)fluoranthene	1.00E+00	4.10E+03	SD-HWY-03	29 (46)	2.20E+00	7.60E+02			7.65E+03	N	BSL
Chrysene	8.00E-01	5.40E+03	SD-HWY-03	37 (46)	1.80E+01	4.10E+02			7.65E+04	N	BSL
Dibenz(a,h)anthracene	4.70E+00	1.40E+03	SD-FCCD-03	21 (46)	2.20E+00	3.00E+02		1	7.65E+01	Y	ASL
Fluoranthene	1.50E+00	8.50E+03	SD-HWY-03	39 (46)	2.00E+02	7.40E+02			4.37E+06	N	BSL
Fluorene	6.10E+00	3.40E+02	SD-FCCD-03	19 (46)	2.20E+00	4.40E+02			5.13E+06	N	BSL
Indeno(1,2,3-cd)pyrene	5.40E-01	2.70E+03	SD-FCCD-03	30 (46)	3.60E+02	1.30E+03			7.65E+02	Y	ASL
Naphthalene	5.40E+01	1.90E+03	SD-FCSW-01	4 (28)	1.80E+01	5.40E+03			1.06E+05	N	BSL
Phenanthrene	7.40E-01	2.70E+03	SD-FCCD-03	36 (46)	2.20E+00	2.00E+02				N	NSL

Table 6-5. Selection of Human Health COPCs for Area B Sediment

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
Pyrene	1.60E+00	6.40E+03	SD-HWY-03	39 (46)	2.10E+02	7.70E+02			4.37E+06	N	BSL
Pesticides (µg/kg)											
4,4'-DDD	1.50E+00	1.50E+00	SD-FCD-04	1 (9)	2.00E+00	2.40E+01			3.04E+03	N	BSL
4,4'-DDE	5.60E-01	1.70E+02	SD-FCCD-03	2 (14)	2.00E+00	4.50E+01			2.17E+03	N	BSL
4,4'-DDT	6.40E-01	8.30E+01	SD-FCCD-03	3 (14)	2.00E+00	2.40E+01			2.17E+03	N	BSL
Chlordane	4.20E-01	3.70E+00	SD-CLDH-01	5 (9)	1.10E+00	1.20E+01			2.03E+03	N	BSL
Endosulfan II	5.40E-01	8.10E+00	SD-FCD-01	2 (9)	2.00E+00	2.40E+01			7.03E+05 ^e	N	NSL
Endrin Aldehyde	9.30E+00	9.30E+00	SD-FCD-01	1 (9)	2.00E+00	2.40E+01			3.42E+04 ^f	N	NSL
Heptachlor Epoxide	2.90E-01	2.30E+00	SD-FCD-01	4 (9)	1.10E+00	1.20E+01			6.65E+01	N	BSL
Methoxychlor	3.60E+00	4.20E+01	SD-FCD-01	3 (9)	1.10E+01	1.20E+02			5.89E+05	N	BSL
Semivolatile Organic Compounds (SVOCs) (µg/kg)											
Acetophenone	3.00E+02	1.30E+03	SD-PBDH-01	2 (28)	1.00E+02	5.40E+03				N	NSL
Carbazole	1.20E+02	3.30E+02	SD-FCCD-03	3 (5)	9.80E+01	1.30E+02			3.00E+04	N	BSL
4-Chloroaniline	2.10E+02	8.70E+02	SD-FCCD-03	2 (28)	1.10E+01	5.40E+03			4.56E+05	N	BSL
p-Cresol	1.10E+02	2.80E+02	SD-FCCD-03	2 (28)	2.30E+01	5.40E+03			5.89E+05	N	BSL
Bis(2-ethylhexyl)phthalate	1.10E+03	1.00E+04	SD-FCCD-01	9 (28)	1.50E+02	5.40E+03			4.29E+04	N	BSL
Dibenzofuran	1.80E+02	2.90E+02	SD-FCCD-03	2 (28)	2.90E+01	5.40E+03			1.05E+07	N	BSL
Diethyl phthalate	7.00E+02	7.00E+02	SD-FCCD-03	1 (28)	3.00E+01	5.40E+03			9.31E+07	N	BSL
Di-n-butyl phthalate	3.00E+01	3.00E+01	SD-CLDH-01	1 (28)	3.10E+01	5.40E+03			1.16E+04	N	BSL
2-Methylnaphthalene	3.90E+01	3.40E+02	SD-FCCD-03	3 (28)	2.40E+01	5.40E+03			1.06E+05 ^g	N	NSL
Polychlorinated Biphenyls (PCBs) (mg/kg)											
Aroclor-1254	1.70E-01	6.70E-01	SD-FCCD-03	2 (20)	1.10E-01	5.00E+02			2.75E+02	N	BSL
Aroclor-1260	8.80E-01	8.80E-01	SD-FCCD-03	1 (20)	1.10E-01	5.00E+02			2.75E+02	N	BSL
Volatile Organic Compounds (VOCs) (µg/kg)											
Acetone	4.10E+01	4.30E+03	SD-FCCD-03	24 (28)	9.20E+02	1.30E+03			3.04E+06	N	BSL
Benzaldehyde	3.00E+02	5.20E+03	SD-FCD-01	4 (28)	1.00E+02	8.10E+02			1.16E+07	N	BSL
Bromoform	1.00E+01	4.10E+02	SD-FCSW-03	26 (28)	1.30E+01	6.30E+01			7.62E+04	N	BSL
Carbon disulfide	9.00E+00	1.90E+03	SD-FCSW-03	27 (28)	6.30E+01	6.30E+01			6.84E+05	N	BSL
Chlorobenzene	9.00E+00	9.10E+01	SD-FCCD-03	3 (28)	1.10E+01	3.30E+02			2.85E+05	N	BSL
Cumene (isopropyl benzene)	6.20E+01	6.20E+01	SD-FCSW-03	1 (28)	1.10E+01	3.10E+02			1.08E+06	N	BSL

Table 6-5. Selection of Human Health COPCs for Area B Sediment

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	U.S. EPA Region 9 Residential Soil PRGs ^c (modified)	COPC Flag (Y/N)	Rationale for Selection or Elimination
1,2-Dichlorobenzene	8.10E+01	6.80E+02	SD-FCCD-03	3 (56)	1.10E+01	5.40E+03			7.03E+05	N	BSL
1,3-Dichlorobenzene	1.30E+02	1.30E+02	SD-FCCD-03	1 (56)	1.10E+01	5.40E+03			3.04E+04	N	BSL
1,4-Dichlorobenzene	1.20E+02	1.60E+03	SD-FCCD-03	3 (56)	1.10E+01	5.40E+03			6.46E+03	N	BSL
Methyl acetate	1.60E+02	8.50E+02	SD-RR-01	5 (28)	1.10E+01	3.30E+02			4.18E+07	N	BSL
Methyl ethyl ketone	1.30E+02	6.30E+02	SD-FCCD-03	8 (28)	1.10E+01	3.10E+02			1.39E+07	N	BSL
Methyl tertiary butyl ether	3.70E+01	3.70E+01	SD-PBDH-01	1 (28)	1.10E+01	3.10E+02			6.18E+04	N	BSL
Phenol	3.60E+01	7.60E+01	SD-FCCD-03	4 (5)	2.80E+01	2.80E+01			7.03E+07	N	BSL
Toluene	2.00E+00	5.30E+02	SD-FCSW-03	17 (28)	1.20E+01	3.10E+02			9.88E+05	N	BSL
1,1,2-Trichloroethane	3.80E+01	3.80E+01	SD-FCD-04	1 (28)	1.10E+01	3.10E+02			6.78E+02	N	BSL
Xylenes, Total	3.00E+01	4.80E+02	SD-FCSW-03	2 (28)	1.10E+01	3.10E+02			5.13E+05	N	BSL

Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Residential PRGs for soil were modified as described in Section 6.1 to account for an increased exposure duration of 70 years (6 years as a child and 64 years as an adult) reflective of a traditional Native American lifestyle. Note: noncarcinogenic effect-based PRGs were not affected by this modification.

^d Individual dioxin/furan congeners not screened. 2,3,7,8-TCDD TEQ screened to determine dioxin/furan COPCs.

^e Endosulfan was used as a surrogate

^f Endrin was used as a surrogate

^g Naphthalene was used as a surrogate

ASL = maximum detected value is above the screening level

BSL = maximum detected value is below the screening level

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only

Table 6-6. Selection of Human Health COPCs for Area B Surface Water

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	Drinking Water Standard ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Metals (mg/L)											
Antimony, dissolved	2.80E-04	2.80E-04	SW-PB-0102	1 (4)	5.00E-05	7.00E-05			6.00E-03	N	BSL
Arsenic, dissolved	7.00E-04	1.00E-03	SW-PB-0102	3 (4)	8.00E-04	8.00E-04	1	3	1.00E-02	Y	ASL
Barium, dissolved	3.53E-02	4.24E-02	SW-PB-0102	4 (4)					2.00E+00	N	BSL
Cadmium, dissolved	1.00E-04	1.00E-04	SW-PB-0102	1 (4)	3.00E-05	3.00E-05			5.00E-03	N	BSL
Calcium, dissolved	2.78E+01	5.41E+01	SW-FCSW-0102	4 (4)						N	NUTR
Cobalt, dissolved	2.50E-04	5.00E-04	SW-FCSW-0102	4 (4)					7.30E-01	N	BSL
Iron, dissolved	7.60E-03	5.74E-02	SW-FCCD-0102	4 (4)						N	NUTR
Lead, dissolved	8.61E-04	8.61E-04	SW-PB-0102	1 (4)	1.28E-04	5.22E-04				N	LFD
Magnesium, dissolved	1.32E+01	1.62E+01	SW-PB-0102	4 (4)						N	NUTR
Manganese, dissolved	1.59E-02	2.43E-02	SW-FCCD-0102	3 (4)	9.90E-04	9.90E-04			8.80E-01	N	BSL
Nickel, dissolved	1.38E-02	1.38E-02	SW-PB-0102	1 (4)	3.00E-04	2.20E-03			7.30E-01	N	BSL
Potassium, dissolved	1.30E+00	2.45E+00	SW-FCCD-0102	4 (4)						N	NUTR
Sodium, dissolved	4.06E+00	5.70E+00	SW-PB-0102	4 (4)						N	NUTR
Vanadium, dissolved	2.50E-04	5.00E-04	SW-FCCD-0102	3 (4)	1.80E-04	1.80E-04			2.60E-01	N	BSL
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/L)											
Acenaphthene	5.10E-06	6.30E-06	SW-FCSW-0102	2 (17)	1.30E-06	5.40E-03			3.70E-01	N	BSL
Acenaphthylene	1.80E-06	2.10E-06	SW-FCCD-0102	2 (17)	1.00E-06	5.40E-03			6.20E-03	N	NSL
Anthracene	1.50E-06	4.90E-06	SW-FCCD-0102	2 (24)	1.00E-06	5.40E-03			1.80E+00	N	BSL
Benzo(a)anthracene	2.50E-06	8.70E-06	SW-FCCD-0102	2 (17)	1.00E-06	5.40E-03	11		2.00E-04	N	LFD ^d
Benzo(a)pyrene	2.80E-06	2.90E-05	SW-FCD-0102	3 (24)	1.00E-06	5.40E-03	17	1	2.00E-04	N	LFD ^d
Benzo(b)fluoranthene	4.90E-06	1.10E-05	SW-FCCD-0102	2 (17)	1.00E-06	5.40E-03	11		2.00E-04	N	LFD ^d
Benzo(g,h,i)perylene	5.30E-06	5.30E-06	SW-FCCD-0102	1 (17)	1.00E-06	5.40E-03			6.20E-03	N	NSL
Benzo(k)fluoranthene	2.40E-06	4.40E-06	SW-FCCD-0102	2 (17)	1.00E-06	5.40E-03	11		2.00E-04	N	LFD ^d
Chrysene	1.80E-06	1.20E-05	SW-FCCD-0102	3 (17)	1.00E-06	5.40E-03	11		2.00E-04	N	LFD ^d
Dibenz(a,h)anthracene	2.10E-06	2.10E-06	SW-FCCD-0102	1 (17)	1.40E-06	5.40E-03	11		2.00E-04	N	LFD ^d
Fluoranthene	1.90E-06	4.10E-05	SW-FCCD-0102	5 (17)	2.00E-06	5.40E-03			1.50E+00	N	BSL
Fluorene	4.40E-06	6.40E-06	SW-FCCD-0102	2 (28)	1.40E-06	5.40E-03			2.40E-01	N	BSL
Indeno(1,2,3-cd)pyrene	2.80E-06	5.20E-06	SW-FCCD-0102	2 (17)	1.70E-06	5.40E-03	11		2.00E-04	N	LFD ^d

Table 6-6. Selection of Human Health COPCs for Area B Surface Water

Chemical ^a	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	Drinking Water Standard ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Naphthalene	7.20E-06	1.10E-04	SW-FCSW-0102, SW-PB-0102	6 (18)	3.00E-03	5.40E-03			6.20E-03	N	BSL
Phenanthrene	4.00E-06	4.40E-05	PBDH-018081	8 (25)	3.00E-06	5.40E-03			6.20E-03	N	NSL
Pyrene	1.60E-06	3.40E-05	SW-FCCD-0102	5 (16)	2.00E-06	5.40E-03			1.80E-01	N	BSL
Semivolatile Organic Compounds (SVOCs) (mg/L)											
2-Methylnaphthalene	2.50E-06	9.30E-05	SW-PB-0102	4 (16)	2.00E-05	5.40E-03			6.20E-03	N	BSL
ethylhexyl)phthalate	1.40E-03	6.30E-03	SW-RR-0102	7 (11)	5.00E-03	5.10E-03	4	4	6.00E-03	N	CLC
Caprolactam	4.40E-03	4.40E-03	SW-PB-0102	1 (11)	5.00E-03	5.40E-03			1.80E+01	N	BSL
Volatile Organic Compounds (VOCs) (mg/L)											
Benzene	1.50E-04	2.80E-04	SW-FCD-0102	2 (11)	5.00E-04	5.00E-04			5.00E-03	N	BSL
Carbon disulfide	3.50E-04	3.50E-04	SW-FCCD-0102	1 (11)	5.00E-04	5.00E-04			1.00E+00	N	BSL
1,3-Dichloro-1-propene, cis-	1.00E-04	1.00E-04	SW-FCSW-0102, SW-HWY-0102	2 (11)	5.00E-04	5.00E-04			4.00E-04	N	BSL
Ethyl benzene	1.10E-04	1.80E-04	SW-FCD-0102	3 (11)	5.00E-04	5.00E-04			7.00E-01	N	BSL
Methylene chloride	1.20E-04	1.40E-04	SW-RR-0102	2 (11)	5.00E-04	5.00E-04			5.00E-03	N	BSL
Toluene	2.70E-04	2.70E-04	SW-FCSW-0102	1 (11)	5.00E-04	9.20E-04			1.00E+00	N	BSL
Xylenes, Total	5.30E-04	1.10E-03	SW-FCD-0102	3 (11)	5.00E-04	5.00E-04			1.00E+01	N	BSL

Notes:

^a Only those analytes detected at least once since the year 2000 are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c Drinking water standards are federal Maximum Contaminant Levels (MCLs). For chemicals without MCLs, screening levels are the USEPA Region 9 PRGs for residential tap water. Because the surface water is not a drinking water supply, MCLs and tap water PRGs are very conservative and are considered protective of both recreational and subsistence-level contact with surface water. The naphthalene PRG was used to screen acenaphthene, benzo(g,h,i)perylene, and phenanthrene concentrations.

^d Split sample results yielded lower detection limits for PAHs; not considered COPCs based on low detection frequency.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

CLC = Common laboratory contaminant; this analyte is not expected to be site-related.

LFD = low frequency of detection, this analyte is not expected to be site-related.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.

Table 6-7 Selection of Human Health COPCs for Area A Groundwater

Chemical ^a (mg/L)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	MDH Health Risk Limits for Groundwater ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	2.10E-05	1.00E-01	W405	35 (126)	1.90E-05	1.00E-02			0.4	N	BSL
Acenaphthylene	2.10E-05	5.60E-04	W213	10 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Anthracene	2.00E-05	6.10E-04	W213	27 (126)	1.90E-05	1.00E-02			2.0	N	BSL
Benzo(a)anthracene	6.30E-05	6.30E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Benzo(a)pyrene	7.10E-05	7.10E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Benzo(b)fluoranthene	9.00E-05	9.00E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Benzo(g,h,i)perylene	6.00E-05	6.00E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Benzo(k)fluoranthene	7.40E-05	7.40E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Chrysene	9.50E-05	9.50E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Fluoranthene	3.60E-05	2.60E-04	W105	9 (126)	1.90E-05	1.00E-02			0.3	N	BSL
Fluorene	3.40E-04	4.60E-02	W405	17 (126)	1.90E-05	1.00E-02			0.3	N	BSL
Indeno(1,2,3-cd)pyrene	6.50E-05	6.50E-05	W105	1 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Naphthalene	2.10E-05	1.90E+00	W405	41 (126)	1.90E-05	1.00E-02		4	0.3	Y	ASL
Phenanthrene	2.30E-05	1.40E-02	W405	15 (126)	1.90E-05	1.00E-02				N	NSL, LFD
Pyrene	2.00E-05	2.10E-04	W105	7 (126)	1.90E-05	1.00E-02			0.2	N	BSL
Semivolatile Organic Compounds (SVOCs)											
Bis(2-chloroethyl)ether	4.06E-05	1.23E-04	127 1st St NE	2 (9)	2.31E-05	5.00E-03	5		0.0003	N	BSL
Bis(2-ethylhexyl)phthalate	1.40E-03	1.40E-03	316 Grant Utley	1 (9)	5.00E-03	5.00E-03			0.02	N	BSL
Pentachlorophenol	3.10E-03	7.50E+00	W405	41 (126)	1.45E-04	2.40E-02	12	41	0.003	Y	ASL
Quinoline	2.50E-05	2.70E-01	W405	17 (106)	1.90E-05	2.00E-02				N	NSL, LFD
Dioxins/Furans											
1,2,3,4,6,7,8-HpCDF	1.19E-08	1.33E-08	A17-19-0-4ER	3 (5)	1.52E-09	1.80E-09				N	NSL
1,2,3,4,7,8-HxCDF	4.74E-09	4.74E-09	A5-6-0-4-ER	1 (3)	1.83E-09	3.12E-09				N	NSL
1,2,3,7,8-PCDF	3.82E-09	3.82E-09	A5-6-0-4-ER	1 (5)	1.67E-09	2.29E-09				N	NSL
2,3,4,7,8-PCDF	4.90E-09	5.03E-09	316 Grant Utley	2 (5)	1.12E-09	2.35E-09				N	NSL
2,3,7,8-TCDF	1.33E-08	1.33E-08	A5-6-0-4-ER	1 (5)	1.04E-09	8.42E-09				N	NSL
OCDD	5.92E-08	6.33E-07	A17-19-0-4ER	4 (5)	9.40E-09	9.40E-09				N	NSL
OCDF	3.46E-08	6.75E-08	A17-19-0-4ER	2 (5)	3.44E-09	2.21E-08				N	NSL

Table 6-7 Selection of Human Health COPCs for Area A Groundwater

Chemical ^a (mg/L)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	MDH Health Risk Limits for Groundwater ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
1,2,3,4,6,7,8-HpCDD	7.67E-09	8.59E-08	A17-19-0-4ER	4 (5)	2.87E-09	2.87E-09				N	NSL
TEQDF-WHO98 (ND = 1/2 DL)	4.29E-09	6.26E-09	A5-6-0-4-ER	5 (5)					3.00E-08	N	BSL

Notes:

^a Only those analytes detected at least once since the year 2000 are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c MDH (2004).

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

LFD = low frequency of detection, this analyte is not expected to be site-related.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

Table 6-8. Selection of Human Health COPCs for Area B Groundwater

Chemical ^a (mg/L)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	MDH Health Risk Limits for Groundwater ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethylene	1.00E-04	1.00E-04	W2127	1 (10)	0.0005	0.0005			0.006	N	BSL
1,2-Dichlorobenzene	2.10E-04	4.50E-04	W2102	2 (10)	0.0005	0.0005			0.6	N	BSL
1,3-Dichloro-1-propene, cis-	1.10E-04	1.10E-04	W2106	1 (10)	5.00E-04	5.00E-04			0.002	N	BSL
1,4-Dichlorobenzene	1.20E-04	1.20E-04	W2102	1 (10)	5.00E-04	5.00E-04			0.01	N	BSL
2,4-Dinitrotoluene	1.50E-02	1.50E-02	W2329	1 (9)	5.00E-03	7.50E-02				N	NSL, LFD
2-Hexanone	6.70E-04	6.70E-04	W2301	1 (10)	5.00E-03	5.00E-03				N	NSL, LFD
2-Methylnaphthalene	1.50E-01	2.80E-01	W2106	2 (10)	5.00E-03	5.10E-03				N	NSL, LFD
Benzene	1.60E-04	4.20E-04	W2106	2 (10)	5.00E-04	5.00E-04			0.01	N	BSL
Carbon disulfide	1.10E-04	2.10E-02	W2326	9 (10)	5.00E-04	5.00E-04			0.7	N	BSL
Chloromethane	1.10E-04	1.10E-04	W2326	1 (10)	2.00E-04	2.00E-04				N	NSL, LFD
Ethyl benzene	1.60E-02	2.40E-02	W2106	2 (10)	5.00E-04	5.00E-04			0.7	N	BSL
Methyl ethyl ketone	5.30E-03	5.30E-03	W2301	1 (10)	5.00E-03	5.00E-03			4	N	BSL
Methylene chloride	1.60E-04	1.60E-04	W2129	1 (10)	5.00E-04	5.00E-04			0.05	N	BSL
Styrene	6.80E-03	1.40E-02	W2106	2 (10)	5.00E-04	5.00E-04			0.1 ^d	N	BSL
Toluene	1.10E-04	8.90E-03	W2106	5 (10)	5.00E-04	5.90E-04			1.0	N	BSL
Xylenes, Total	2.30E-04	5.80E-02	W2106	3 (10)	5.00E-04	5.00E-04			10 ^d	N	BSL
Pesticides											
a-Chlordane	9.00E-06	5.40E-05	W2102	4 (10)	6.00E-06	5.10E-04			0.002 ^d	N	BSL
b-BHC	3.00E-04	2.70E-03	W2102	2 (10)	5.00E-06	1.00E-05				N	NSL, LFD
Caprolactam	2.80E-02	2.80E-02	W2127	1 (10)	5.00E-03	7.50E-02				N	NSL, LFD
Dieldrin	3.30E-05	1.20E-04	W2102	2 (10)	1.00E-05	2.00E-05				N	NSL, LFD
Endrin Aldehyde	2.60E-05	3.00E-04	W2102	2 (10)	1.00E-05	2.00E-05			0.002 ^d	N	BSL
Methoxychlor	1.00E-05	8.10E-04	W2102	2 (10)	5.00E-05	5.10E-03			0.04 ^d	N	BSL
4,4'-DDD	1.30E-04	1.30E-04	W2102	1 (10)	1.00E-05	1.00E-03			0.001	N	BSL
4,4'-DDE	3.00E-04	3.00E-04	W2102	1 (10)	1.00E-05	1.00E-03			0.001	N	BSL
4,4'-DDT	6.90E-05	6.90E-05	W2106	1 (10)	1.00E-05	1.00E-04			0.001	N	BSL

Table 6-8. Selection of Human Health COPCs for Area B Groundwater

Chemical ^a (mg/L)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	MDH Health Risk Limits for Groundwater ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	2.30E-05	2.90E-01	W2401	12 (54)	1.90E-05	1.00E-02			0.4	N	BSL
Anthracene	3.80E-05	9.60E-02	W2102	6 (61)	1.90E-05	1.00E-02			2	N	BSL
Benzo(a)anthracene	1.20E-02	8.80E-02	W2102	3 (55)	1.90E-05	7.30E-02				N	NSL, LFD
Benzo(a)pyrene	9.40E-05	2.50E-02	W2102	2 (61)	1.90E-05	7.30E-02				N	NSL, LFD
Benzo(b)fluoranthene	4.10E-02	4.10E-02	W2102	1 (55)	1.90E-05	7.30E-02				N	NSL, LFD
Benzo(k)fluoranthene	3.60E-02	3.60E-02	W2102	1 (55)	1.90E-05	7.30E-02				N	NSL, LFD
Chrysene	1.20E-02	1.00E-01	W2102	3 (55)	1.90E-05	7.30E-02				N	NSL, LFD
Fluoranthene	9.30E-02	4.80E-01	W2102	3 (55)	1.90E-05	7.30E-02		1	0.3	N	LFD
Fluorene	2.30E-05	1.80E-01	W2102	13 (64)	1.90E-05	1.00E-02			0.3	N	BSL
Cumene (isopropyl benzene)	8.70E-04	1.10E-03	W2102	2 (10)	5.00E-04	5.00E-04			0.3	N	BSL
Naphthalene	3.40E-05	2.40E+00	W2401	15 (55)	1.90E-05	1.00E-02		4	0.3	Y	ASL
Phenanthrene	3.90E-05	4.20E-01	W2102	10 (62)	1.90E-05	1.00E-02				N	NSL, LFD
Pyrene	5.70E-02	3.60E-01	W2102	3 (55)	1.90E-05	7.30E-02		1	0.2	N	LFD
Metals											
Aluminum	1.16E-01	1.34E+00	W2135	5 (10)	1.36E-01	1.36E-01				N	NSL
Arsenic	5.70E-03	5.70E-03	W2102	1 (10)	1.80E-03	6.10E-03			0.01 ^d	N	BSL
Barium	2.70E-02	3.55E-01	W2106	10 (10)					2	N	BSL
Calcium	3.33E+01	8.99E+01	W2326	10 (10)						N	NUTR
Chromium	6.70E-04	6.60E-03	W2106	4 (10)	5.00E-04	1.60E-03			0.1	N	BSL
Cobalt	2.40E-03	6.80E-03	W2106	3 (10)	1.00E-03	2.10E-03				N	NSL
Copper	1.90E-03	4.57E-02	W2102	6 (10)	1.60E-03	1.60E-03			1.0 ^d	N	BSL
Iron	4.14E-02	4.78E+00	W2102	10 (10)						N	NUTR
Lead	2.10E-03	3.50E-03	W2335	2 (10)	1.90E-03	2.40E-03				N	NSL, LFD
Magnesium	7.62E+00	2.61E+01	W2326	10 (10)						N	NUTR
Manganese	9.10E-02	5.12E+00	W2106	10 (10)				9	0.1	Y	ASL
Nickel	1.10E-03	1.71E-02	W2106	6 (10)	3.00E-03	3.00E-03			0.10	N	BSL
Potassium	9.56E-01	2.18E+00	W2326	10 (10)						N	NUTR

Table 6-8. Selection of Human Health COPCs for Area B Groundwater

Chemical ^a (mg/L)	Minimum Detected Concentration	Maximum Detected Concentration	Location of Maximum Concentration	Detection Frequency ^b	Minimum Detection Limit	Maximum Detection Limit	Frequency Detection Limit Exceeds Benchmark	Frequency Detected Concentration Exceeds Benchmark	MDH Health Risk Limits for Groundwater ^c	COPC Flag (Y/N)	Rationale for Selection or Elimination
Sodium	3.00E+00	5.59E+00	W2326	10 (10)						N	NUTR
Vanadium	1.80E-03	5.10E-03	W2102	4 (10)	1.10E-03	1.80E-03			0.05	N	BSL
Zinc	1.96E-02	3.35E-02	W2335	4 (10)	8.50E-03	1.26E-02			2	N	BSL
Semivolatile Organic Compounds (SVOCs)											
Biphenyl	3.90E-02	3.90E-02	W2106	1 (10)	5.00E-03	7.50E-02			0.3	N	BSL
Bis(2-ethylhexyl)phthalate	8.60E-04	2.30E-03	W2335	5 (10)	5.00E-03	7.50E-02	2		0.02	N	BSL
Dibenzofuran	1.10E-01	1.20E-01	W2106	2 (10)	5.00E-03	5.10E-03				N	NSL, LFD
p-Cresol	1.40E-03	1.40E-03	W2335	1 (10)	5.00E-03	7.50E-02	9		0.003	N	BSL
Pentachlorophenol	1.30E-03	1.20E+01	W2102	15 (61)	5.00E-04	5.10E-03	8	11	0.003	Y	ASL
Quinoline	1.60E-02	4.00E-01	W2401	3 (45)	1.90E-05	2.00E-02				N	NSL, LFD
Polychlorinated Biphenyls (PCBs)											
PCB-105	7.09E-08	7.09E-08	W2102	1 (10)	5.40E-09	6.33E-09				N	NSL, LFD
PCB-118	1.22E-07	1.22E-07	W2102	1 (10)	8.90E-09	1.04E-08				N	NSL, LFD
PCB-167	9.55E-09	9.55E-09	W2102	1 (10)	4.07E-09	4.77E-09				N	NSL, LFD
PCB-77	3.74E-08	3.74E-08	W2102	1 (10)	4.68E-09	5.48E-09				N	NSL, LFD
Polychlorinated Biphenyls	9.67E-08	2.59E-05	W2102	9 (10)	1.34E-07	1.34E-07			0.00004	N	BSL

Notes:

^a Only those analytes detected at least once are presented.

^b The number in parentheses is the total number of samples; the number not in parentheses is the number of samples with detected concentrations.

^c MDH (2004).

^d Federal MCL.

ASL = maximum detected value is above the screening level.

BSL = maximum detected value is below the screening level.

LFD = low frequency of detection.

NSL = no screening level is available; this analyte will be addressed in the uncertainty assessment.

NUTR = analyte is considered an essential nutrient and is expected to be toxic at very high doses only.