SPECIAL PUBLICATION SJ2005-SP5

CHEMICAL CONTAMINATION OF SEDIMENTS IN THE CEDAR-ORTEGA RIVER BASIN

APPENDICES

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

CHEMICAL CONTAMINATION OF SEDIMENTS IN THE CEDAR-ORTEGA RIVER BASIN

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

APPENDICES

FINAL REPORT

JULY, 2005

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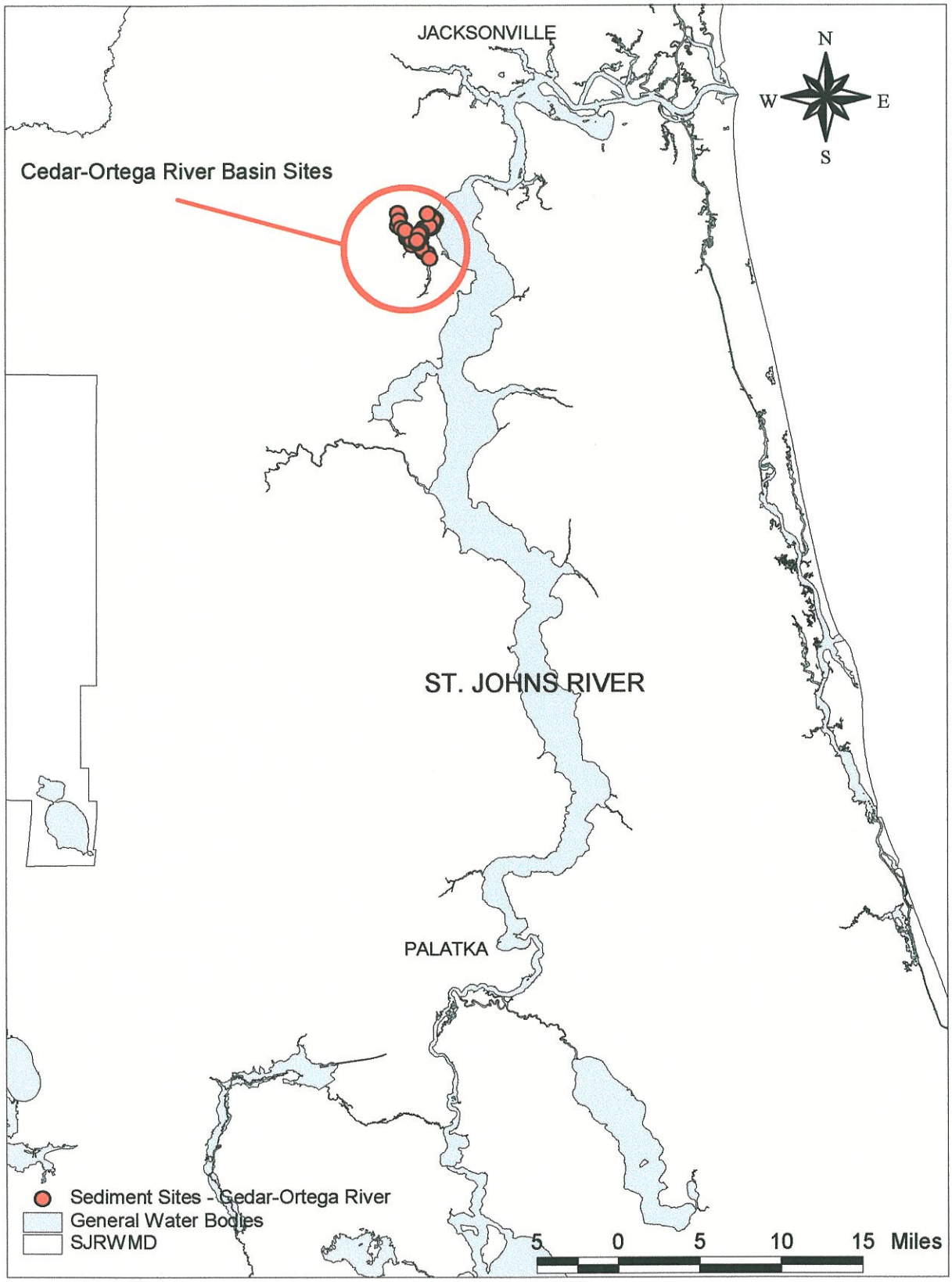
JACKSONVILLE
N
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Cedar-Ortega River Basin Sites
ST. JOHNS RIVER
PALATKA
Sediment Sites - Cedar-Ortega River
General Water Bodies
SJRWMD
5 0 5 10 15 Miles


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W
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CED12
CED01
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CEDAR RIVER
CED02
CED03
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Butcher Pen Creek
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ORT24
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ORT26
ORT37
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ORT34
ORT29
ORT35
ORT36
ORT38
ORTEGA RIVER
ORT39
ORT40
ORT41
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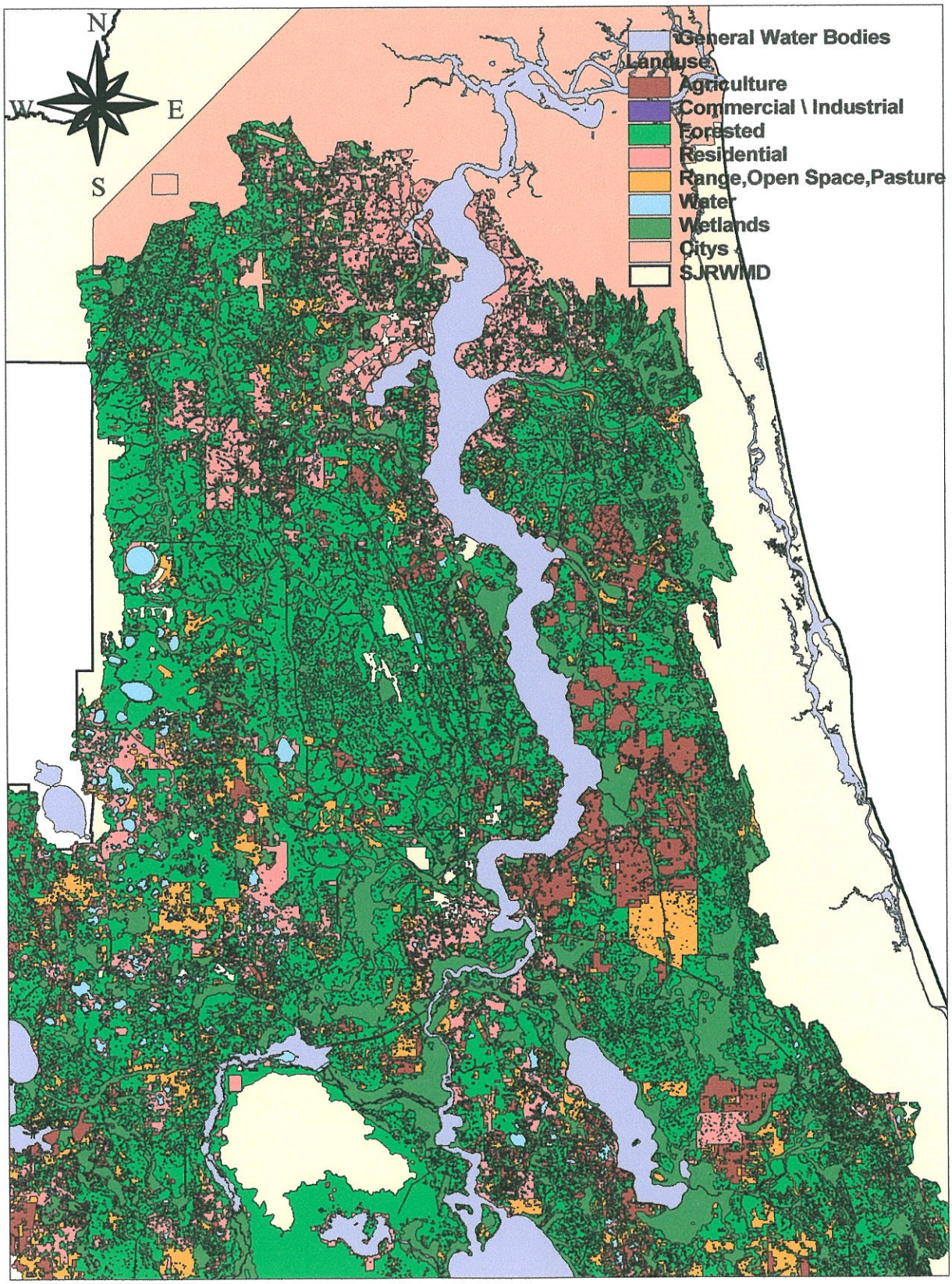
0.4
0.8
1.2 Miles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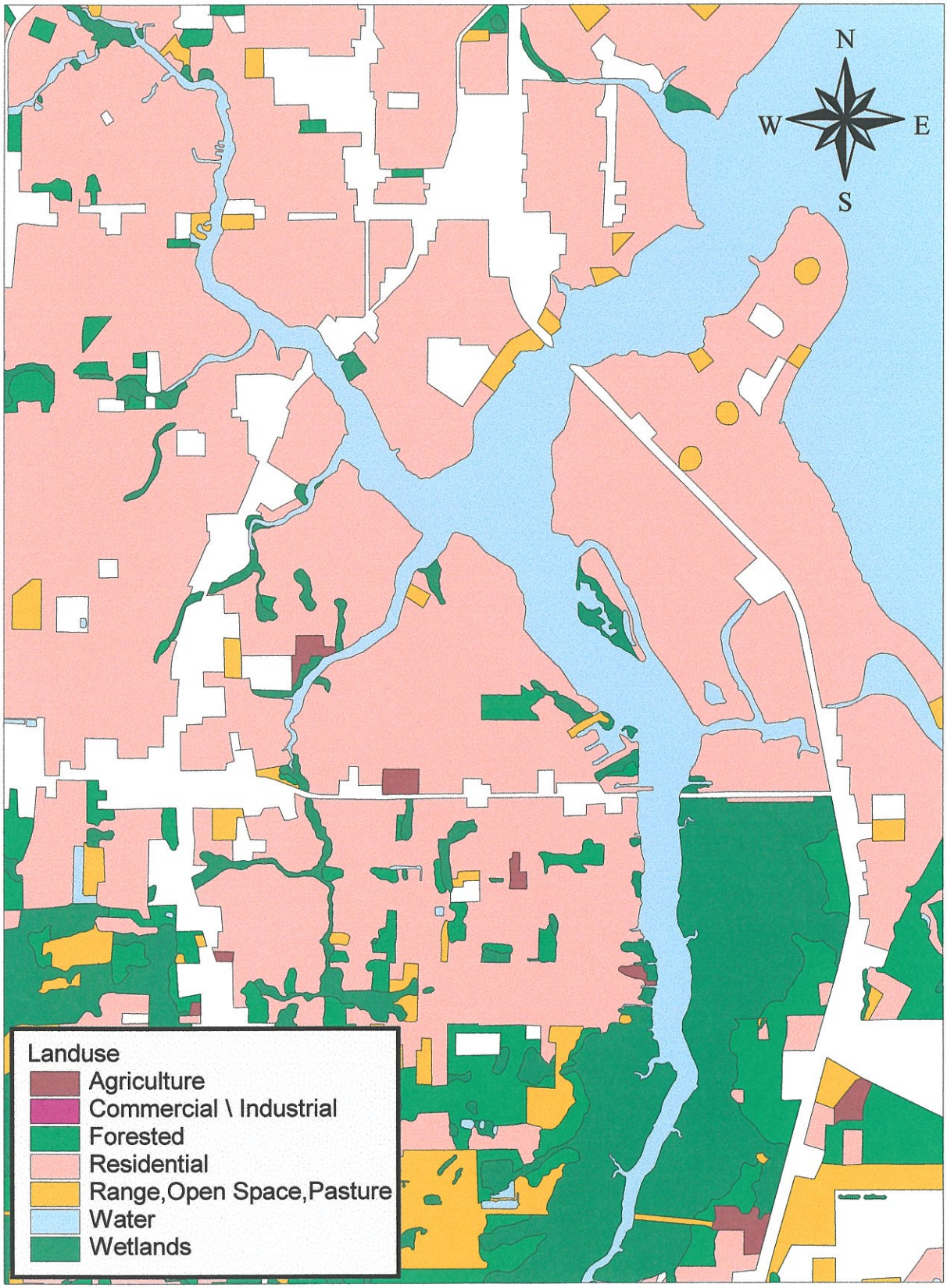
General Water Bodies
Landuse
Agriculture
Commercial \ Industrial
Forested
Residential
Range,Open Space,Pasture
Water
Wetlands
Citys
SJRWMD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Agriculture
Commercial \ Industrial
Forested
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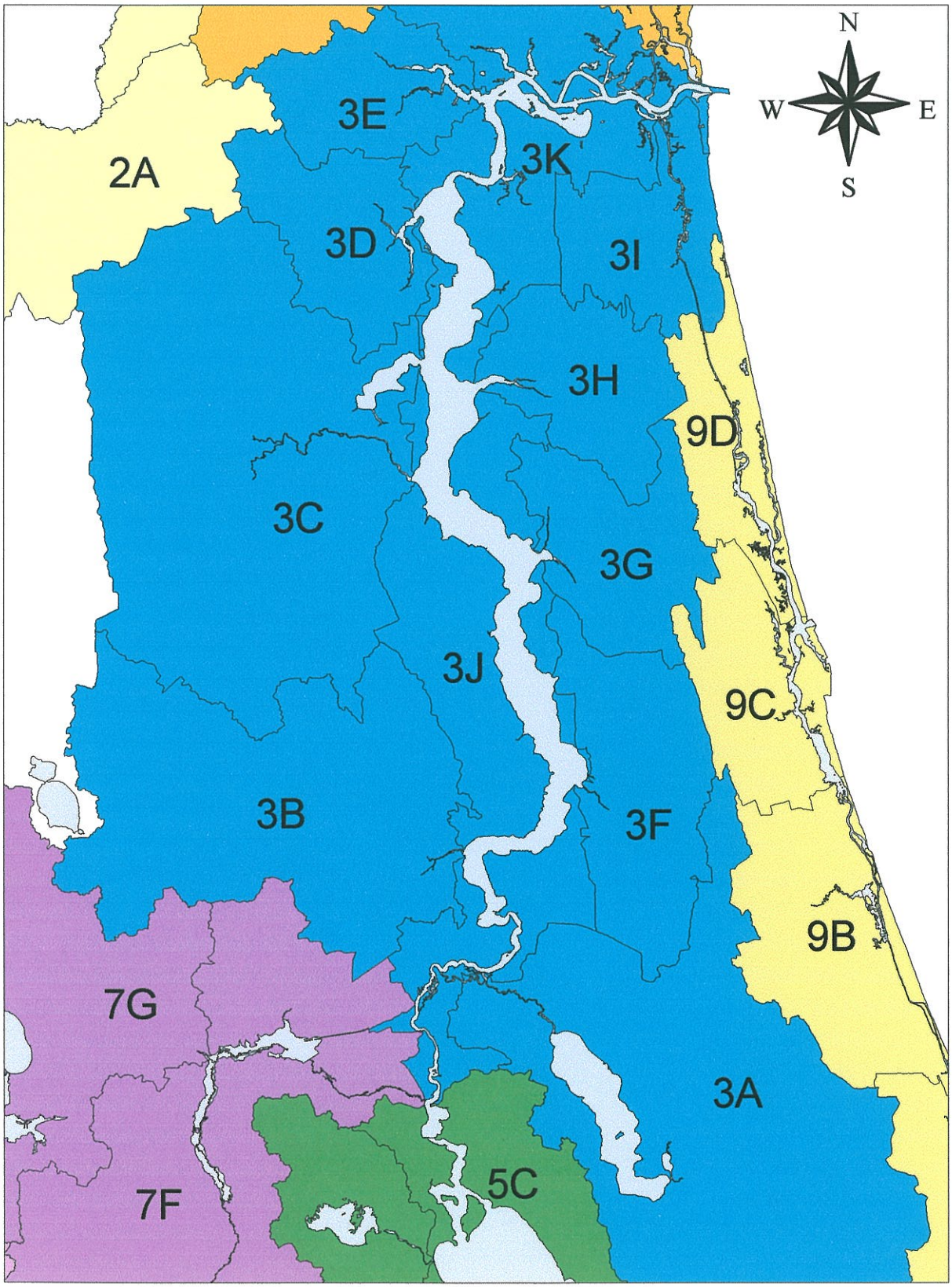
Range,Open Space,Pasture
Water
Wetlands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3K
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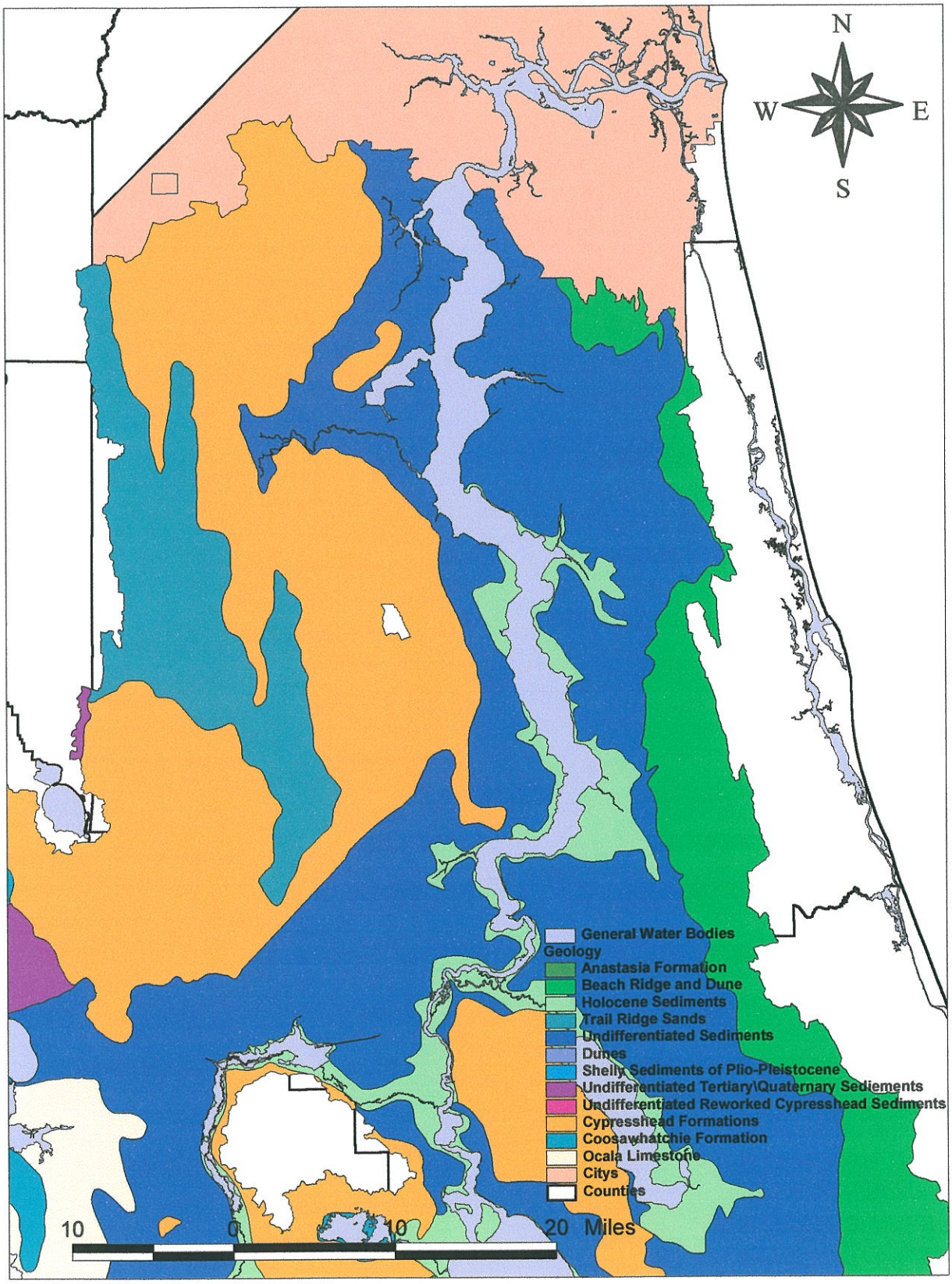
N
W
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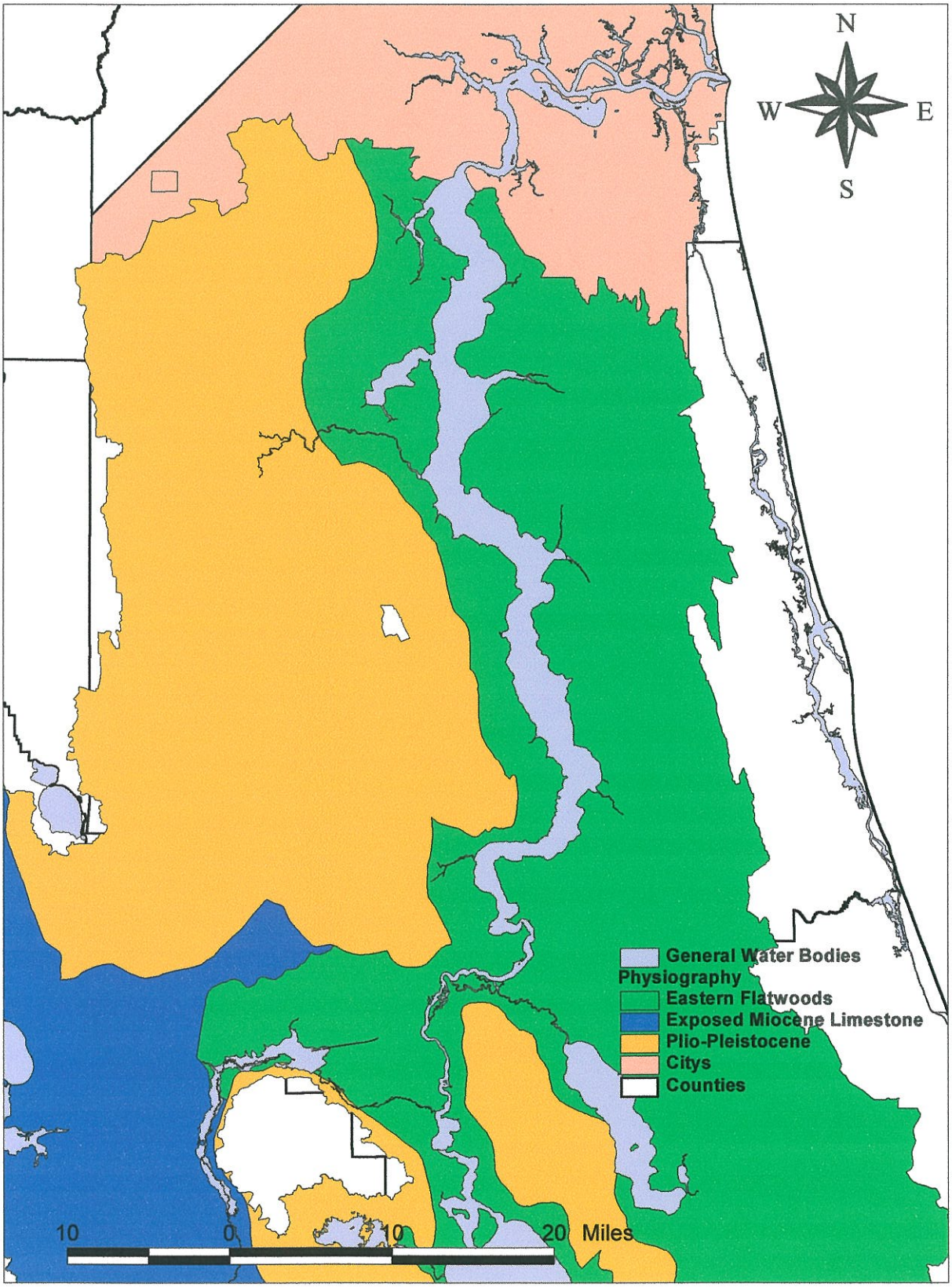
General Water Bodies
Geology
Anastasia Formation
Beach Ridge and Dune
Holocene Sediments
Trail Ridge Sands
Undifferentiated Sediments
Dunes
Shelly Sediments of Plio-Pleistocene
Undifferentiated Tertiary\Quaternary Sediements
Undifferentiated Reworked Cypresshead Sediments
Cypresshead Formations
Coosawhatchie Formation
Ocala Limestone
Citys
Counties
10
0
10
20 Miles


N
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General Water Bodies
Physiography
Eastern Flatwoods
Exposed Miocene Limestone
Plio-Pleistocene
Citys
Counties
10
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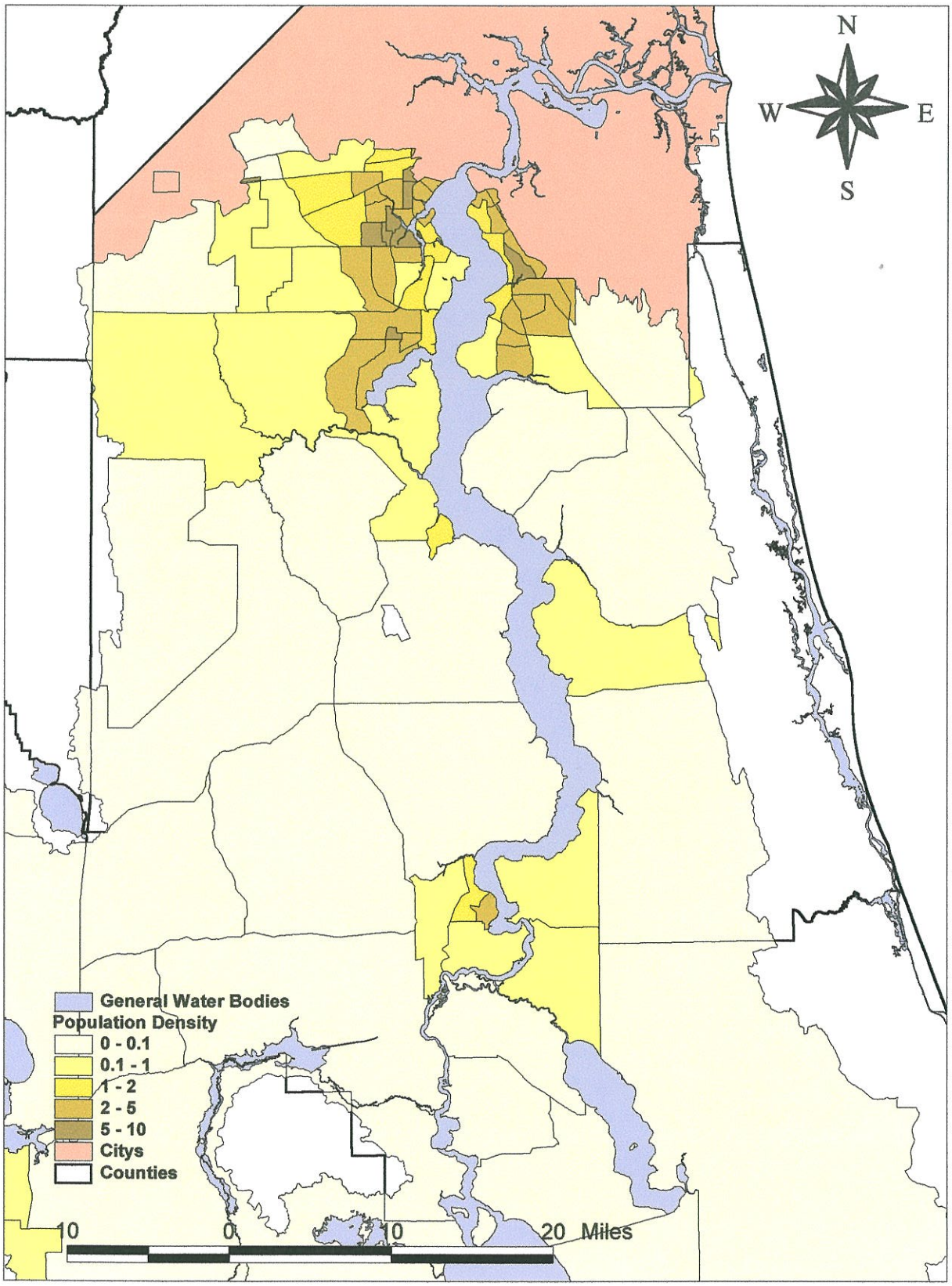
10
20 Miles


N
W
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General Water Bodies
Population Density
0 - 0.1
0.1 - 1
1 - 2
2 - 5
5 - 10
Citys
Counties
10
0
10
20 Miles

Appendix B. PAH and Phthalate (Method 8270M) Data

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	CED01	CED01	CED02	CED03	CED03	CED03
FIELD_ID	LSJ98SCED01SA	LSJ98SCED01MA	LSJ98SCED02SA	LSJ98SCED03SA	LSJ98SCED03MA	LSJ98SCED03LA
BATCH_ID	98-076	98-076	98-076	98-356	98-336	98-336
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	1.53	22.85
Naphthalene	18.08	27.03	28.86	34.09	4.09	39.27
2-Methylnaphthalene	16.41	11.47	22.66	20.82	1.51	30.00
1-Methylnaphthalene	7.15	5.28	10.84	9.59	0.73	14.00
Biphenyl	ND	3.38	5.37	7.38	3.07	6.88
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	25.36	30.66	25.48	10.79	2.06	23.33
Dimethylphthalate	ND	ND	ND	9.21	ND	ND
2,3,5-Trimethylnaphthalene	96.43	51.18	22.69	10.91	1.25	28.03
Acenaphthylene	20.00	33.55	45.38	42.12	ND	58.33
Acenaphthene	48.33	34.21	44.62	20.15	6.74	18.33
Fluorene	55.60	65.66	64.84	27.12	9.43	41.06
Diethylphthalate	ND	6.89	12.58	11.38	28.99	41.06
Phenanthrene	125.00	152.63	192.47	204.55	7.74	162.12
Anthracene	57.98	72.11	88.06	86.82	1.34	116.67
1-Methylphenanthrene	74.05	55.13	42.47	23.48	1.44	30.91
Di-N-butylphthalate	ND	11.43	78.71	35.91	8.13	70.45
Fluoranthene	415.48	427.63	920.43	1104.55	20.72	816.67
Pyrene	403.57	472.37	952.69	1054.55	33.62	860.61
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	225.00	173.77	460.34	422.22	3.27	439.47
Chrysene	310.42	259.02	746.55	755.56	4.21	692.11
Butylbenzylphthalate	ND	ND	98.45	62.70	2.89	169.47
Bis(2-ethylhexyl)phthalate	1168.75	98.52	1270.69	1447.62	50.42	3157.89
Di-N-octylphthalate	34.79	31.97	ND	121.59	1.92	957.89
Benzo(b)fluoranthene	466.67	285.25	1181.03	988.89	5.83	1042.11
Benzo(k)fluoranthene	293.75	190.16	624.14	820.63	4.46	765.79
Benzo(e)pyrene	297.92	172.13	820.69	736.51	3.75	771.05
Benzo(a)pyrene	287.50	200.00	841.38	695.24	2.37	789.47
Perylene	1381.25	2868.85	3189.66	1793.65	684.51	3421.05
Indeno(1,2,3-c,d)pyrene	429.17	231.15	1032.76	790.48	4.63	905.26
Dibenz(a,h)anthracene	68.13	43.44	172.41	156.51	ND	175.00
Benzo(g,h,i)perylene	383.33	214.75	910.34	584.13	9.21	689.47
TOTAL PAH	5506.55	6080.82	12446.17	10400.72	815.98	11937.00
Low PAH	544.38	542.29	593.74	497.82	39.40	568.93
High PAH	4962.17	5538.52	11852.43	9902.90	776.59	11368.06
Total Phthalates	1203.54	148.82	1460.43	1688.40	92.34	4396.78

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	CED04	CED04	CED04	CED05	CED06	CED06
FIELD_ID	LSJ98SCED04SA	LSJ98SCED04MA	LSJ98SCED04LA	LSJ98SCED05SA	LSJ98SCED06SA	LSJ98SCED06MA
BATCH_ID	98-337	98-356	98-356	98-191	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	7.63	ND	6.15	ND	ND	ND
Naphthalene	66.05	39.82	49.70	14.94	34.09	31.02
2-Methylnaphthalene	41.05	26.61	22.82	5.00	20.76	8.10
1-Methylnaphthalene	18.21	11.64	13.03	2.25	10.41	4.88
Biphenyl	13.33	8.25	11.96	2.17	8.04	5.16
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	20.86	16.75	13.80	2.85	12.00	4.00
Dimethylphthalate	10.91	19.75	ND	1.59	15.38	2.51
2,3,5-Trimethylnaphthalene	15.66	19.88	14.93	2.00	6.04	2.69
Acenaphthylene	70.17	54.88	84.57	15.98	44.38	14.94
Acenaphthene	31.72	18.38	12.11	3.26	27.75	3.19
Fluorene	41.90	33.00	26.09	6.85	30.75	8.96
Diethylphthalate	13.86	ND	11.67	8.35	38.50	2.98
Phenanthrene	277.59	138.75	133.70	40.93	301.25	32.35
Anthracene	131.38	91.00	101.74	18.11	91.88	17.65
1-Methylphenanthrene	38.10	21.63	29.13	5.06	36.00	6.21
Di-N-butylphthalate	82.76	32.38	199.78	41.85	34.25	11.46
Fluoranthene	1518.97	771.25	739.13	212.96	1375.00	197.53
Pyrene	1525.86	835.00	791.30	259.26	1198.75	228.40
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	644.68	365.52	266.67	98.57	582.86	65.95
Chrysene	1065.96	586.21	368.89	140.41	1068.57	77.72
Butylbenzylphthalate	89.36	82.76	ND	23.47	91.29	ND
Bis(2-ethylhexyl)phthalate	2234.04	2482.76	251.11	2244.90	211.43	15.06
Di-N-octylphthalate	144.04	19.14	11.98	54.90	ND	ND
Benzo(b)fluoranthene	1444.68	739.66	428.89	148.78	1417.14	99.87
Benzo(k)fluoranthene	1263.83	556.90	355.56	142.86	1072.86	84.43
Benzo(e)pyrene	1100.00	553.45	342.22	123.06	1072.86	81.52
Benzo(a)pyrene	1089.36	544.83	348.89	88.37	985.71	73.04
Perylene	3148.94	2982.76	3400.00	530.61	1700.00	1873.42
Indeno(1,2,3-c,d)pyrene	1240.43	570.69	340.00	165.51	1258.57	85.19
Dibenz(a,h)anthracene	238.30	114.31	73.33	33.88	252.86	17.47
Benzo(g,h,i)perylene	919.15	465.52	353.33	141.22	1097.14	82.66
TOTAL PAH	15966.17	9566.65	8321.78	2204.88	13705.65	3106.34
Low PAH	766.02	480.57	513.57	119.39	623.33	139.15
High PAH	15200.15	9086.08	7808.21	2085.49	13082.32	2967.19
Total Phthalates	2574.98	2636.78	474.55	2375.06	390.84	32.00

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	CED06	CED07	CED07	CED07	CED08	CED08
FIELD_ID	LSJ98SCED06LA	LSJ98SCED07SA	LSJ98SCED07MA	LSJ98SCED07LA	LSJ98SCED08SA	LSJ98SCED08MA
BATCH_ID	98-119	98-119	98-119	98-119	98-076	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	4.42	48.20	53.27	5.75	30.56	23.73
2-Methylnaphthalene	2.97	23.44	19.09	5.05	19.86	12.31
1-Methylnaphthalene	2.33	10.64	9.31	3.17	10.31	5.57
Biphenyl	1.51	11.05	10.34	1.96	6.54	6.98
2-Chloronaphthalene	ND	ND	ND	ND	1.40	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	ND	11.79	8.37	3.24	16.33	9.71
Dimethylphthalate	1.64	6.16	2.67	ND	7.43	4.45
2,3,5-Trimethylnaphthalene	ND	6.83	3.74	2.50	5.54	3.38
Acenaphthylene	ND	40.40	31.32	ND	21.11	16.00
Acenaphthene	ND	16.13	6.82	ND	16.67	9.70
Fluorene	ND	19.73	17.89	1.96	23.44	14.63
Diethylphthalate	5.41	8.45	5.46	5.51	5.66	3.04
Phenanthrene	3.76	138.67	82.11	5.56	147.78	75.50
Anthracene	1.42	61.20	45.66	1.76	47.78	31.88
1-Methylphenanthrene	2.21	23.73	14.21	2.44	19.89	12.75
Di-N-butylphthalate	19.87	29.47	27.37	12.13	18.33	13.63
Fluoranthene	24.61	734.67	393.42	25.59	737.78	376.25
Pyrene	31.84	816.00	517.11	32.65	776.67	417.50
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	3.91	320.90	170.42	4.56	302.27	145.45
Chrysene	4.45	535.82	242.25	6.39	609.09	261.04
Butylbenzylphthalate	ND	38.51	ND	ND	28.98	30.39
Bis(2-ethylhexyl)phthalate	17.87	116.87	43.10	14.65	952.27	45.84
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	10.43	713.43	261.97	11.00	770.45	320.78
Benzo(k)fluoranthene	7.08	537.31	212.68	6.62	552.27	241.56
Benzo(e)pyrene	5.41	546.27	216.90	5.48	567.05	249.35
Benzo(a)pyrene	2.91	465.67	191.55	3.41	514.77	212.99
Perylene	2453.33	1940.30	2253.52	1816.90	1089.77	1480.52
Indeno(1,2,3-c,d)pyrene	8.33	622.39	205.63	8.24	620.45	253.25
Dibenz(a,h)anthracene	ND	115.07	43.94	ND	118.18	49.09
Benzo(g,h,i)perylene	8.12	546.27	197.18	9.62	570.45	241.56
TOTAL PAH	2579.06	8305.91	5208.70	1963.84	7595.04	4471.46
Low PAH	18.64	411.81	302.12	33.38	365.82	222.12
High PAH	2560.42	7894.10	4906.58	1930.46	7229.22	4249.33
Total Phthalates	44.79	199.45	78.60	32.29	1012.67	97.35

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	CED09	CED09	ORT01	ORT01	ORT01	ORT02
FIELD_ID	LSJ98SCED09SA	LSJ98SCED09MA	LSJ98SORT01SA	LSJ98SORT01MA	LSJ98SORT01LA	LSJ98SORT02SA
BATCH_ID	98-076	98-076	98-178	98-178	98-178	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	2.12
Naphthalene	36.90	34.78	72.55	86.44	5.66	12.04
2-Methylnaphthalene	20.00	21.34	25.10	23.56	3.63	3.39
1-Methylnaphthalene	10.21	9.78	11.59	10.16	1.95	1.88
Biphenyl	7.17	7.63	7.59	9.25	1.28	2.13
2-Chloronaphthalene	1.24	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	10.60	12.62	9.26	10.21	ND	1.83
Dimethylphthalate	9.24	9.24	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	4.23	4.14	3.31	4.53	ND	1.34
Acenaphthylene	38.56	35.95	24.29	34.39	ND	4.14
Acenaphthene	39.33	26.67	9.77	10.39	ND	1.39
Fluorene	60.44	48.57	15.86	17.33	1.64	3.18
Diethylphthalate	7.10	6.13	20.71	15.88	15.80	4.57
Phenanthrene	708.89	514.29	77.86	86.67	5.43	11.64
Anthracene	154.44	103.69	34.14	35.26	1.47	5.87
1-Methylphenanthrene	61.78	50.00	12.73	17.28	2.45	2.81
Di-N-butylphthalate	63.00	43.45	9.43	13.61	5.58	12.08
Fluoranthene	3477.78	2392.86	267.14	359.65	12.68	48.83
Pyrene	2555.56	1952.38	344.29	414.04	17.05	59.61
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1417.72	920.51	104.33	125.89	3.35	16.35
Chrysene	2582.28	1653.85	131.34	175.71	5.33	21.08
Butylbenzylphthalate	75.06	77.95	4.99	ND	ND	5.16
Bis(2-ethylhexyl)phthalate	516.46	373.08	42.09	52.50	9.13	110.27
Di-N-octylphthalate	12.65	ND	ND	ND	ND	4.12
Benzo(b)fluoranthene	3810.13	2371.79	142.69	189.29	7.70	24.86
Benzo(k)fluoranthene	2012.66	1371.79	126.87	156.43	5.03	20.14
Benzo(e)pyrene	2544.30	1615.38	132.84	175.18	4.70	19.19
Benzo(a)pyrene	2556.96	1628.21	76.12	70.54	3.05	18.92
Perylene	1746.84	1961.54	756.72	582.14	667.50	647.30
Indeno(1,2,3-c,d)pyrene	2911.39	1807.69	106.42	139.46	4.93	17.16
Dibenz(a,h)anthracene	532.91	329.49	21.34	35.00	ND	3.19
Benzo(g,h,i)perylene	2468.35	1615.38	108.81	145.36	4.53	13.78
TOTAL PAH	29769.43	20490.33	2622.93	2914.14	759.31	962.05
Low PAH	1152.56	869.46	304.04	345.45	23.49	51.64
High PAH	28616.88	19620.88	2318.89	2568.68	735.83	910.41
Total Phthalates	683.51	509.85	77.22	81.99	30.50	136.20

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT02	ORT02	ORT03	ORT03	ORT03	ORT04
FIELD_ID	LSJ98SORT02MA	LSJ98SORT02LA	LSJ98SORT03SA	LSJ98SORT03MA	LSJ98SORT03LA	LSJ98SORT04SA
BATCH_ID	98-336	98-336	98-178	98-178	98-178	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	1.69	ND	ND	ND	2.51
Naphthalene	43.42	4.04	5.77	4.45	3.12	90.21
2-Methylnaphthalene	14.45	1.48	2.39	2.06	0.77	14.19
1-Methylnaphthalene	6.95	0.97	1.53	1.04	0.82	7.19
Biphenyl	5.02	3.40	1.18	1.04	0.95	6.01
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	7.71	1.52	1.59	1.10	1.25	5.19
Dimethylphthalate	ND	ND	2.13	ND	1.06	ND
2,3,5-Trimethylnaphthalene	5.48	1.17	ND	ND	ND	3.14
Acenaphthylene	27.14	ND	0.71	ND	ND	17.25
Acenaphthene	6.36	ND	ND	ND	ND	10.51
Fluorene	11.23	1.48	2.17	2.19	1.83	15.88
Diethylphthalate	29.11	28.77	22.03	22.19	17.08	7.63
Phenanthrene	60.00	4.65	7.36	5.77	5.54	55.00
Anthracene	35.71	1.41	1.81	1.20	ND	29.13
1-Methylphenanthrene	10.98	1.38	3.20	3.13	2.02	7.74
Di-N-butylphthalate	17.84	9.18	6.27	10.03	4.77	30.00
Fluoranthene	271.43	17.04	29.84	22.34	15.69	205.00
Pyrene	312.50	21.75	35.16	26.88	24.31	212.50
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	93.89	4.65	6.63	5.41	3.75	60.88
Chrysene	117.59	5.96	8.98	6.79	5.22	77.75
Butylbenzylphthalate	ND	ND	ND	ND	ND	5.89
Bis(2-ethylhexyl)phthalate	90.37	35.74	174.60	9.30	4.89	136.25
Di-N-octylphthalate	10.48	ND	ND	ND	ND	41.25
Benzo(b)fluoranthene	130.56	9.09	11.71	11.33	8.65	75.13
Benzo(k)fluoranthene	124.44	6.35	7.83	6.92	5.84	65.75
Benzo(e)pyrene	110.93	5.02	7.51	5.30	4.67	61.13
Benzo(a)pyrene	118.70	2.69	2.78	1.79	0.86	59.13
Perylene	788.89	970.37	744.44	1131.75	974.60	1010.00
Indeno(1,2,3-c,d)pyrene	107.22	6.50	7.54	7.41	6.13	45.38
Dibenz(a,h)anthracene	22.59	ND	1.21	0.88	ND	9.46
Benzo(g,h,i)perylene	83.89	7.11	7.60	6.89	5.81	43.63
TOTAL PAH	2517.09	1078.04	898.97	1255.67	1071.82	2187.15
Low PAH	234.46	21.51	27.72	21.96	16.30	261.43
High PAH	2282.63	1056.53	871.24	1233.71	1055.53	1925.71
Total Phthalates	147.80	73.69	205.03	41.52	27.80	221.01

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
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SITE_ID	ORT04	ORT04	ORT05	ORT05	ORT05	ORT06
FIELD_ID	LSJ98SORT04MA	LSJ98SORT04LA	LSJ98SORT05SA	LSJ98SORT05MA	LSJ98SORT05LA	LSJ98SORT06SA
BATCH_ID	98-336	98-336	98-178	98-178	98-178	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	11.67	ND	ND	ND	ND
Naphthalene	187.21	51.22	181.14	7.90	4.29	57.61
2-Methylnaphthalene	44.65	32.65	45.71	3.25	1.91	17.20
1-Methylnaphthalene	24.19	15.31	19.00	1.82	1.01	8.91
Biphenyl	16.21	14.11	18.91	2.00	1.11	5.77
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	22.58	24.91	13.13	1.13	ND	7.74
Dimethylphthalate	ND	13.09	1.73	ND	ND	ND
2,3,5-Trimethylnaphthalene	8.89	22.11	3.60	ND	ND	1.74
Acenaphthylene	65.91	91.93	32.91	1.40	ND	16.38
Acenaphthene	27.58	49.65	17.65	1.55	ND	11.08
Fluorene	55.30	54.74	38.18	3.47	1.90	12.79
Diethylphthalate	38.64	41.05	23.82	18.75	23.83	19.34
Phenanthrene	178.79	378.95	137.45	9.42	4.85	56.56
Anthracene	110.15	187.72	49.64	3.84	1.14	21.80
1-Methylphenanthrene	25.30	48.60	17.49	2.94	1.62	9.98
Di-N-butylphthalate	23.48	42.63	14.38	6.03	8.72	7.59
Fluoranthene	695.45	1964.91	401.82	34.69	19.53	227.87
Pyrene	736.36	1842.11	418.18	34.69	27.66	255.74
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	247.54	865.00	140.38	11.14	5.07	79.15
Chrysene	268.85	1440.00	185.28	14.12	6.72	96.44
Butylbenzylphthalate	7.51	239.25	5.87	ND	ND	ND
Bis(2-ethylhexyl)phthalate	139.84	3050.00	20.94	9.31	6.43	649.15
Di-N-octylphthalate	20.33	79.00	ND	ND	ND	ND
Benzo(b)fluoranthene	303.28	2345.00	156.60	16.77	10.11	112.71
Benzo(k)fluoranthene	249.18	1605.00	134.91	11.88	7.11	100.68
Benzo(e)pyrene	244.26	1547.50	132.64	10.88	5.35	104.24
Benzo(a)pyrene	263.93	1677.50	59.25	6.09	1.14	48.81
Perylene	986.89	2875.00	809.43	1178.46	1221.74	374.58
Indeno(1,2,3-c,d)pyrene	213.11	1875.00	96.60	10.89	6.48	73.73
Dibenz(a,h)anthracene	48.20	495.00	22.83	1.68	ND	17.46
Benzo(g,h,i)perylene	195.08	1260.00	105.09	9.86	6.61	82.03
TOTAL PAH	5218.90	20763.90	3237.84	1379.88	1335.34	1800.99
Low PAH	766.76	971.89	574.82	38.73	17.83	227.55
High PAH	4452.15	19792.02	2663.02	1341.14	1317.51	1573.44
Total Phthalates	229.79	3465.02	66.74	34.09	38.99	676.09

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT06	ORT06	ORT06-1	ORT06-1	ORT06-1	ORT07
FIELD_ID	LSJ98SORT06MA	LSJ98SORT06LA	LSJ98SORT061SA	LSJ98SORT061MA	LSJ98SORT061LA	LSJ98SORT07SA
BATCH_ID	98-178	98-178	98-337	98-356	98-356	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	3.97	2.70	3.00	3.89
Naphthalene	2.68	4.77	49.47	56.07	5.82	62.78
2-Methylnaphthalene	1.23	2.81	20.53	14.59	1.80	32.96
1-Methylnaphthalene	0.74	1.90	9.45	7.77	1.14	15.31
Biphenyl	0.66	1.21	6.43	8.24	3.36	11.34
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	ND	1.21	13.37	5.90	1.39	15.06
Dimethylphthalate	ND	ND	ND	ND	ND	6.21
2,3,5-Trimethylnaphthalene	ND	ND	4.62	3.48	0.79	8.64
Acenaphthylene	ND	ND	19.00	28.54	ND	48.18
Acenaphthene	ND	2.03	8.63	7.96	ND	17.14
Fluorene	1.06	1.43	12.20	14.63	1.60	23.38
Diethylphthalate	11.57	13.64	8.22	5.46	5.68	8.95
Phenanthrene	3.23	4.78	61.17	67.56	5.10	142.86
Anthracene	0.76	0.99	33.00	38.29	1.96	82.99
1-Methylphenanthrene	1.26	1.32	10.97	13.41	1.79	25.06
Di-N-butylphthalate	5.07	5.93	31.83	12.93	14.50	39.09
Fluoranthene	11.71	14.22	276.67	306.10	19.00	636.36
Pyrene	9.98	17.46	286.67	325.61	15.50	697.40
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	2.15	3.57	88.93	103.04	4.72	273.08
Chrysene	3.17	6.19	98.39	127.85	5.91	371.79
Butylbenzylphthalate	ND	ND	3.75	ND	4.82	24.49
Bis(2-ethylhexyl)phthalate	4.31	8.93	57.32	120.63	123.04	412.82
Di-N-octylphthalate	ND	ND	7.73	1.86	3.70	37.05
Benzo(b)fluoranthene	4.26	7.41	118.39	129.11	7.99	452.56
Benzo(k)fluoranthene	3.35	4.64	101.25	121.77	6.19	373.08
Benzo(e)pyrene	2.43	4.05	95.00	111.52	4.75	339.74
Benzo(a)pyrene	0.79	1.09	102.68	113.54	2.73	335.90
Perylene	318.52	762.07	867.86	586.08	802.53	688.46
Indeno(1,2,3-c,d)pyrene	2.96	4.78	87.68	96.96	5.59	316.67
Dibenz(a,h)anthracene	ND	ND	18.04	21.01	ND	66.28
Benzo(g,h,i)perylene	2.56	3.91	69.82	81.01	4.65	246.15
TOTAL PAH	373.50	851.84	2460.20	2390.06	904.32	5283.19
Low PAH	11.63	22.46	248.83	266.45	24.76	485.70
High PAH	361.87	829.39	2211.37	2123.61	879.56	4797.48
Total Phthalates	20.96	28.51	108.85	140.88	151.73	528.61

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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SITE_ID	ORT07	ORT07	ORT08	ORT08	ORT08	ORT09
FIELD_ID	LSJ98SORT07MA	LSJ98SORT07LA	LSJ98SORT08SA	LSJ98SORT08MA	LSJ98SORT08LA	LSJ98SORT09SA
BATCH_ID	98-336	98-336	98-076	98-076	98-076	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	2.16	3.30	ND	ND	149.76	ND
Naphthalene	68.37	67.50	41.19	34.86	5.66	162.11
2-Methylnaphthalene	30.23	33.86	14.27	8.64	1.91	32.11
1-Methylnaphthalene	13.56	15.64	7.31	4.21	1.01	17.14
Biphenyl	11.79	10.05	5.04	4.17	1.15	13.33
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	14.63	15.45	6.40	4.84	0.70	11.51
Dimethylphthalate	6.11	5.03	1.32	0.85	0.85	5.90
2,3,5-Trimethylnaphthalene	6.34	7.13	2.80	3.33	ND	5.43
Acenaphthylene	47.68	49.00	18.59	15.73	ND	47.92
Acenaphthene	17.25	16.32	7.93	5.29	ND	19.58
Fluorene	21.25	22.50	10.50	8.43	0.81	26.39
Diethylphthalate	27.50	62.50	11.63	7.96	6.82	29.31
Phenanthrene	132.14	133.83	56.52	38.17	2.73	161.11
Anthracene	79.82	83.00	27.17	17.56	0.87	56.11
1-Methylphenanthrene	20.71	24.50	9.62	7.23	0.86	26.25
Di-N-butylphthalate	28.39	23.50	53.70	45.73	6.69	33.19
Fluoranthene	619.64	530.00	225.00	165.85	11.11	501.39
Pyrene	683.93	641.67	283.70	206.10	14.97	547.22
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	274.07	235.71	96.63	60.36	2.77	180.00
Chrysene	362.96	291.07	109.47	73.45	4.27	224.29
Butylbenzylphthalate	28.89	20.54	4.96	4.19	2.58	ND
Bis(2-ethylhexyl)phthalate	305.56	250.00	23.79	12.62	6.98	270.00
Di-N-octylphthalate	81.85	17.80	ND	ND	ND	ND
Benzo(b)fluoranthene	453.70	353.57	121.05	72.98	5.79	250.00
Benzo(k)fluoranthene	379.63	298.21	110.53	70.60	3.56	222.86
Benzo(e)pyrene	348.15	271.43	109.47	67.50	3.24	220.00
Benzo(a)pyrene	348.15	287.50	113.68	71.31	1.48	121.86
Perylene	766.67	987.50	600.00	488.10	1172.58	662.86
Indeno(1,2,3-c,d)pyrene	337.04	253.57	90.84	56.90	3.37	185.71
Dibenz(a,h)anthracene	73.52	56.79	21.89	12.02	ND	43.00
Benzo(g,h,i)perylene	242.59	192.86	90.32	58.33	3.05	197.14
TOTAL PAH	5353.82	4878.66	2179.95	1555.97	1241.90	3935.32
Low PAH	463.77	478.78	207.36	152.47	15.69	578.99
High PAH	4890.05	4399.88	1972.59	1403.50	1226.21	3356.33
Total Phthalates	478.30	379.37	95.39	71.35	23.93	338.40

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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SITE_ID	ORT09	ORT09	ORT10	ORT10	ORT10	ORT11
FIELD_ID	LSJ98SORT09MA	LSJ98SORT09LA	LSJ98SORT10SA	LSJ98SORT10MA	LSJ98SORT10LA	LSJ98SORT11SA
BATCH_ID	98-178	98-178	98-178	98-178	98-178	98-191
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	104.81	4.84	101.15	141.73	5.47	45.74
2-Methylnaphthalene	20.00	1.95	32.88	47.12	2.58	14.66
1-Methylnaphthalene	9.56	1.04	15.27	21.15	1.70	7.70
Biphenyl	9.34	1.44	13.31	14.47	1.39	6.49
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	9.75	ND	12.75	17.50	1.23	8.49
Dimethylphthalate	2.46	0.63	4.35	4.87	ND	3.14
2,3,5-Trimethylnaphthalene	3.35	ND	4.50	4.96	ND	3.47
Acenaphthylene	35.15	ND	40.69	49.61	0.65	30.61
Acenaphthene	12.46	ND	14.86	20.00	ND	9.18
Fluorene	21.18	1.92	26.11	33.82	2.07	13.29
Diethylphthalate	20.00	16.72	24.03	27.24	17.51	12.69
Phenanthrene	109.56	5.77	135.00	169.74	7.37	69.59
Anthracene	37.50	1.11	64.86	76.97	2.53	41.43
1-Methylphenanthrene	18.53	2.27	24.44	29.87	1.88	9.82
Di-N-butylphthalate	16.62	6.19	21.67	26.71	6.79	35.31
Fluoranthene	430.88	17.19	461.11	653.95	21.75	314.29
Pyrene	450.00	16.88	545.83	784.21	20.35	404.08
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	138.28	3.35	194.29	245.33	7.40	124.04
Chrysene	198.44	4.82	301.43	352.00	9.87	170.00
Butylbenzylphthalate	6.81	ND	11.79	16.67	ND	10.94
Bis(2-ethylhexyl)phthalate	19.22	33.55	945.71	100.00	8.33	121.06
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	200.00	6.65	292.86	338.67	13.27	175.11
Benzo(k)fluoranthene	176.56	4.26	250.00	293.33	9.93	174.26
Benzo(e)pyrene	173.44	3.06	237.14	297.33	8.89	151.70
Benzo(a)pyrene	82.66	0.77	113.43	114.40	3.16	101.06
Perylene	743.75	711.29	680.00	745.33	1025.45	721.28
Indeno(1,2,3-c,d)pyrene	149.84	4.19	195.71	225.33	8.45	152.98
Dibenz(a,h)anthracene	33.91	ND	46.71	56.27	1.05	35.11
Benzo(g,h,i)perylene	157.81	4.23	211.43	234.67	8.33	146.60
TOTAL PAH	3326.75	797.03	4015.78	4967.76	1164.78	2930.97
Low PAH	391.18	20.34	485.84	626.93	26.86	260.47
High PAH	2935.57	776.69	3529.94	4340.82	1137.92	2670.50
Total Phthalates	65.10	57.09	1007.54	175.48	32.63	183.14

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
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SITE_ID	ORT11	ORT11	ORT12	ORT12	ORT12	ORT13
FIELD_ID	LSJ98SORT11MA	LSJ98SORT11LA	LSJ98SORT12SA	LSJ98SORT12MA	LSJ98SORT12LA	LSJ98SORT13SA
BATCH_ID	98-191	98-191	98-191	98-191	98-191	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	101.70	4.93	77.17	120.00	4.24	186.92
2-Methylnaphthalene	32.26	1.99	23.26	34.52	2.26	46.67
1-Methylnaphthalene	13.57	1.23	11.50	19.71	1.55	28.97
Biphenyl	13.18	0.98	9.36	16.19	1.41	23.14
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	13.40	ND	12.38	30.21	ND	21.57
Dimethylphthalate	ND	ND	9.66	14.47	ND	7.08
2,3,5-Trimethylnaphthalene	5.58	ND	6.43	12.19	ND	5.49
Acenaphthylene	54.84	ND	60.38	91.28	ND	50.98
Acenaphthene	14.39	ND	16.36	58.51	ND	20.39
Fluorene	25.97	2.10	27.17	86.17	2.18	34.71
Diethylphthalate	6.19	8.82	7.45	6.85	6.44	54.90
Phenanthrene	125.81	5.90	133.96	359.57	6.20	163.14
Anthracene	75.32	1.66	90.00	182.98	1.47	70.00
1-Methylphenanthrene	16.94	1.71	20.38	35.11	1.92	28.24
Di-N-butylphthalate	59.19	9.78	40.57	44.68	126.60	28.24
Fluoranthene	585.48	27.40	684.91	1085.11	24.00	574.51
Pyrene	722.58	32.20	764.15	1163.83	32.40	717.65
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	218.97	6.61	276.00	415.91	5.96	226.53
Chrysene	262.07	9.37	384.00	552.27	8.20	283.67
Butylbenzylphthalate	18.97	10.11	16.54	16.91	36.44	16.45
Bis(2-ethylhexyl)phthalate	1175.86	15.28	492.00	78.41	43333.33	346.94
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	274.14	11.39	380.00	509.09	10.42	357.14
Benzo(k)fluoranthene	265.52	9.70	378.00	506.82	6.89	300.00
Benzo(e)pyrene	263.79	7.35	324.00	425.00	5.71	300.00
Benzo(a)pyrene	166.38	2.98	198.80	345.45	1.84	172.24
Perylene	1256.90	1136.96	1018.00	1411.36	1366.67	1108.16
Indeno(1,2,3-c,d)pyrene	260.34	8.00	330.00	425.00	6.56	236.73
Dibenz(a,h)anthracene	63.62	ND	74.40	107.50	ND	56.33
Benzo(g,h,i)perylene	258.62	6.78	302.00	400.00	6.27	257.14
TOTAL PAH	5091.36	1279.24	5602.61	8393.80	1496.14	5270.33
Low PAH	492.95	20.51	488.35	1046.45	21.23	680.21
High PAH	4598.41	1258.73	5114.26	7347.35	1474.91	4590.12
Total Phthalates	1260.21	43.99	566.22	161.32	43502.82	453.60

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT13	ORT13	ORT14	ORT14	ORT14	ORT15
FIELD_ID	LSJ98SORT13MA	LSJ98SORT13LA	LSJ98SORT14SA	LSJ98SORT14MA	LSJ98SORT14LA	LSJ98SORT15SA
BATCH_ID	98-178	98-191	98-337	98-336	98-336	98-076
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	4.58	4.03	4.04	ND
Naphthalene	205.22	14.74	83.85	44.35	6.58	50.85
2-Methylnaphthalene	53.48	16.78	16.81	13.13	2.56	24.07
1-Methylnaphthalene	23.48	6.40	8.19	8.17	1.35	12.00
Biphenyl	25.38	5.80	7.17	10.10	3.89	7.43
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	18.92	6.93	7.49	5.68	1.94	11.88
Dimethylphthalate	2.43	ND	ND	7.35	ND	23.33
2,3,5-Trimethylnaphthalene	6.62	ND	ND	2.25	1.69	5.38
Acenaphthylene	58.92	1.34	14.15	5.61	ND	45.06
Acenaphthene	23.85	10.29	7.73	7.52	0.66	24.20
Fluorene	37.54	13.20	14.22	15.26	3.26	38.89
Diethylphthalate	21.08	4.41	9.07	100.32	44.84	28.27
Phenanthrene	173.85	64.29	42.68	34.19	6.89	149.38
Anthracene	74.62	21.25	24.29	14.94	2.29	139.51
1-Methylphenanthrene	26.92	4.80	7.39	6.74	2.66	25.06
Di-N-butylphthalate	67.85	12.82	66.34	81.29	38.06	55.56
Fluoranthene	615.38	32.50	134.15	96.45	25.65	981.48
Pyrene	756.92	53.21	132.44	94.19	28.87	1029.63
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	225.00	8.29	42.05	24.67	7.40	383.13
Chrysene	260.94	10.22	46.15	26.13	8.03	573.49
Butylbenzylphthalate	16.41	15.84	ND	86.00	ND	34.46
Bis(2-ethylhexyl)phthalate	52.66	33.14	85.90	82.00	53.83	120.24
Di-N-octylphthalate	ND	ND	19.21	4.80	1.70	ND
Benzo(b)fluoranthene	285.94	9.12	54.10	28.70	13.72	601.20
Benzo(k)fluoranthene	262.50	9.61	45.64	27.07	8.75	536.14
Benzo(e)pyrene	270.31	7.06	40.77	21.37	6.37	473.49
Benzo(a)pyrene	152.50	4.04	42.56	19.00	3.48	450.60
Perylene	1334.38	890.20	1038.46	1243.33	1716.67	618.07
Indeno(1,2,3-c,d)pyrene	210.94	6.24	34.36	21.20	8.68	412.05
Dibenz(a,h)anthracene	52.03	1.64	6.59	3.06	ND	85.06
Benzo(g,h,i)perylene	218.75	7.27	32.82	17.57	6.05	389.16
TOTAL PAH	5374.38	1205.21	1884.07	1790.67	1867.42	7067.23
Low PAH	728.79	165.81	233.97	167.93	33.76	533.71
High PAH	4645.59	1039.39	1650.10	1622.74	1833.67	6533.52
Total Phthalates	160.42	66.21	180.52	361.77	138.44	261.86

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT15	ORT15	ORT16	ORT16	ORT16	ORT18
FIELD_ID	LSJ98SORT15MA	LSJ98SORT15LA	LSJ98SORT16SA	LSJ98SORT16MA	LSJ98SORT16LA	LSJ98SORT18SA
BATCH_ID	98-076	98-076	98-337	98-336	98-336	98-337
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	7.15	3.78	3.38	7.35
Naphthalene	79.19	116.21	107.65	156.00	6.34	154.19
2-Methylnaphthalene	30.32	38.62	31.47	49.50	2.52	47.42
1-Methylnaphthalene	13.34	17.41	14.74	24.33	1.52	27.35
Biphenyl	12.04	14.32	12.24	19.14	3.97	14.26
2-Chloronaphthalene	ND	2.46	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	15.07	16.17	15.00	22.93	1.84	24.00
Dimethylphthalate	13.73	3.17	ND	7.03	ND	ND
2,3,5-Trimethylnaphthalene	8.68	5.98	8.76	10.00	2.25	12.32
Acenaphthylene	57.60	44.69	40.60	68.79	ND	43.20
Acenaphthene	19.07	19.26	14.82	25.86	ND	22.20
Fluorene	28.67	34.32	28.60	47.07	2.92	35.60
Diethylphthalate	8.33	7.96	8.22	74.83	53.93	8.74
Phenanthrene	169.33	123.46	108.80	196.55	6.90	129.60
Anthracene	89.60	77.41	85.60	115.69	2.67	90.20
1-Methylphenanthrene	28.80	20.00	19.74	36.72	3.25	24.60
Di-N-butylphthalate	630.67	91.11	40.60	70.52	45.57	33.60
Fluoranthene	937.33	686.42	466.00	965.52	29.18	526.00
Pyrene	1070.67	887.65	498.00	1017.24	29.02	548.00
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	401.32	268.29	185.71	331.58	7.17	197.39
Chrysene	544.74	315.85	242.86	415.79	8.90	271.74
Butylbenzylphthalate	20.13	10.05	8.55	23.16	3.71	10.67
Bis(2-ethylhexyl)phthalate	72.50	26.59	147.35	289.47	71.69	297.83
Di-N-octylphthalate	ND	ND	37.14	24.56	ND	347.83
Benzo(b)fluoranthene	531.58	297.56	236.73	459.65	13.29	236.96
Benzo(k)fluoranthene	490.79	278.05	212.24	371.93	10.02	206.96
Benzo(e)pyrene	442.11	270.73	171.43	333.33	7.25	181.74
Benzo(a)pyrene	431.58	259.76	185.31	315.79	4.37	188.91
Perylene	1539.47	1634.15	1477.55	1424.56	1847.46	1504.35
Indeno(1,2,3-c,d)pyrene	360.53	200.00	146.53	292.98	9.07	157.61
Dibenz(a,h)anthracene	82.50	49.63	31.84	65.09	ND	34.13
Benzo(g,h,i)perylene	351.32	202.44	117.96	210.53	16.29	160.22
TOTAL PAH	7735.63	5878.38	4460.18	6976.57	2016.18	4838.95
Low PAH	551.71	527.85	488.01	772.58	34.17	624.95
High PAH	7183.92	5350.54	3972.16	6203.99	1982.01	4214.00
Total Phthalates	745.36	138.88	241.86	489.57	174.91	698.67

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT18	ORT18	ORT19	ORT19	ORT20	ORT20
FIELD_ID	LSJ98SORT18MA	LSJ98SORT18LA	LSJ98SORT19B	LSJ98SORT19A	LSJ98SORT20SA	LSJ98SORT20MA
BATCH_ID	98-336	98-336	98-356	98-356	98-337	98-336
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	4.02	3.36	1.31	1.45	5.21	4.52
Naphthalene	239.51	6.26	93.33	66.90	14.18	11.48
2-Methylnaphthalene	84.63	2.60	95.64	68.81	8.82	4.72
1-Methylnaphthalene	47.80	1.35	68.72	45.95	4.68	2.88
Biphenyl	21.56	3.77	11.24	9.55	2.36	4.28
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	29.06	1.30	28.21	24.46	3.43	2.49
Dimethylphthalate	4.47	ND	35.37	13.02	ND	ND
2,3,5-Trimethylnaphthalene	12.44	ND	17.01	12.03	1.80	2.15
Acenaphthylene	56.56	ND	111.19	80.00	2.13	0.99
Acenaphthene	35.94	ND	29.10	28.31	0.98	ND
Fluorene	55.94	3.05	57.01	41.69	3.83	3.81
Diethylphthalate	38.28	40.77	4.31	3.09	12.94	73.72
Phenanthrene	179.69	7.05	316.42	258.46	11.34	9.98
Anthracene	104.69	2.52	286.57	207.69	5.43	3.49
1-Methylphenanthrene	31.41	3.17	54.03	39.08	3.87	3.84
Di-N-butylphthalate	53.59	8.62	59.25	38.00	51.28	36.51
Fluoranthene	665.63	19.85	1537.31	1327.69	54.89	38.84
Pyrene	659.38	15.54	1174.63	1083.08	59.36	33.02
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	217.24	5.23	643.48	576.92	16.23	10.29
Chrysene	277.59	8.34	927.54	713.85	19.38	12.73
Butylbenzylphthalate	9.21	3.34	19.57	16.31	3.58	ND
Bis(2-ethylhexyl)phthalate	78448.28	83.23	242.03	200.00	68.13	83.90
Di-N-octylphthalate	16.74	4.47	7.07	16.92	45.63	ND
Benzo(b)fluoranthene	301.72	13.03	628.99	646.15	26.46	18.02
Benzo(k)fluoranthene	272.41	10.08	585.51	530.77	21.67	12.71
Benzo(e)pyrene	234.48	8.24	421.74	412.31	18.46	9.27
Benzo(a)pyrene	220.69	4.60	502.90	480.00	15.73	5.90
Perylene	1062.07	1661.29	372.46	300.00	1435.42	1768.29
Indeno(1,2,3-c,d)pyrene	200.00	9.95	368.12	341.54	18.17	11.73
Dibenz(a,h)anthracene	44.31	ND	87.39	78.15	3.00	ND
Benzo(g,h,i)perylene	150.86	14.21	263.77	238.46	21.46	8.78
TOTAL PAH	5205.61	1801.41	8682.31	7611.87	1773.05	1979.69
Low PAH	899.23	31.06	1168.48	882.94	62.84	50.10
High PAH	4306.38	1770.35	7513.82	6728.92	1710.21	1929.59
Total Phthalates	78570.57	140.42	367.61	287.34	181.55	194.13

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT20	ORT21	ORT21	ORT21	ORT22	ORT22
FIELD_ID	LSJ98SORT20LA	LSJ98SORT21SA	LSJ98SORT21MA	LSJ98SORT21LA	LSJ98SORT22B	LSJ98SORT22A
BATCH_ID	98-336	98-119	98-119	98-119	98-356	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	3.37	ND	ND	2.47	3.56	ND
Naphthalene	5.37	61.93	94.81	7.94	49.02	56.23
2-Methylnaphthalene	2.37	18.42	30.74	2.95	27.56	30.00
1-Methylnaphthalene	1.41	9.11	14.31	2.21	14.34	16.32
Biphenyl	2.85	8.41	12.37	1.77	6.11	7.15
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	1.72	8.24	12.87	ND	8.08	13.70
Dimethylphthalate	ND	2.68	1.93	ND	12.18	14.20
2,3,5-Trimethylnaphthalene	1.75	2.72	5.24	ND	3.80	5.35
Acenaphthylene	ND	31.49	41.34	2.56	44.37	43.83
Acenaphthene	ND	10.82	17.16	ND	9.15	11.69
Fluorene	2.37	17.57	25.67	3.09	17.01	21.23
Diethylphthalate	36.42	6.54	8.58	3.92	5.75	8.75
Phenanthrene	5.46	80.68	111.34	10.78	89.77	122.72
Anthracene	1.82	46.76	67.01	5.77	81.03	90.25
1-Methylphenanthrene	2.49	13.92	16.42	2.78	20.23	21.11
Di-N-butylphthalate	12.96	21.08	32.39	13.64	44.37	43.21
Fluoranthene	20.60	371.62	579.10	41.04	636.78	718.52
Pyrene	31.94	441.89	680.60	52.99	689.66	793.83
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	5.53	150.70	206.15	14.43	241.67	313.25
Chrysene	7.03	188.73	233.85	18.99	330.21	433.73
Butylbenzylphthalate	ND	ND	ND	6.63	14.90	20.36
Bis(2-ethylhexyl)phthalate	62.03	75.92	24.62	8.30	377.08	678.31
Di-N-octylphthalate	ND	ND	ND	ND	9.56	18.43
Benzo(b)fluoranthene	12.44	215.49	258.46	22.78	425.00	545.78
Benzo(k)fluoranthene	8.00	184.51	220.00	17.59	358.33	426.51
Benzo(e)pyrene	5.83	180.28	223.08	15.82	312.50	387.95
Benzo(a)pyrene	2.92	164.79	195.38	11.91	304.17	391.57
Perylene	2000.00	1345.07	1692.31	1810.13	715.63	753.01
Indeno(1,2,3-c,d)pyrene	8.16	160.56	186.15	16.20	298.96	384.34
Dibenz(a,h)anthracene	ND	36.20	42.62	2.72	62.71	79.64
Benzo(g,h,i)perylene	5.91	149.30	180.00	14.56	231.25	296.39
TOTAL PAH	2135.96	3899.20	5147.00	2079.00	4977.34	5964.09
Low PAH	27.61	310.05	449.30	39.84	370.49	439.57
High PAH	2108.35	3589.15	4697.70	2039.17	4606.85	5524.51
Total Phthalates	111.40	106.21	67.51	32.50	463.84	783.27

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT23	ORT23	ORT23	ORT24	ORT24	ORT24
FIELD_ID	LSJ98SORT23SA	LSJ98SORT23MA	LSJ98SORT23LA	LSJ98SORT24SA	LSJ98SORT24MA	LSJ98SORT24LA
BATCH_ID	98-119	98-119	98-119	98-119	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	64.81	71.88	3.55	76.38	20.59	4.08
2-Methylnaphthalene	15.19	14.02	1.79	34.14	5.47	1.75
1-Methylnaphthalene	8.63	7.67	1.37	14.62	4.90	1.20
Biphenyl	8.55	8.93	1.45	11.60	3.68	1.28
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	6.64	5.68	ND	15.29	1.96	ND
Dimethylphthalate	4.58	1.67	ND	6.27	ND	ND
2,3,5-Trimethylnaphthalene	2.87	2.80	ND	5.03	ND	ND
Acenaphthylene	29.85	25.13	ND	46.43	4.74	ND
Acenaphthene	9.76	9.58	1.42	18.86	2.05	ND
Fluorene	17.31	20.00	1.50	30.00	4.36	1.68
Diethylphthalate	17.16	4.42	3.28	19.29	5.48	4.48
Phenanthrene	70.75	67.24	3.82	130.14	17.63	4.32
Anthracene	45.22	38.29	1.18	88.71	8.76	1.89
1-Methylphenanthrene	14.90	12.13	1.41	20.29	3.91	1.54
Di-N-butylphthalate	31.49	13.82	6.69	30.00	12.63	8.84
Fluoranthene	389.55	326.32	16.62	568.57	89.13	22.78
Pyrene	450.75	402.63	27.84	700.00	88.88	28.10
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	150.00	114.53	3.24	256.72	27.50	5.35
Chrysene	192.31	126.27	5.46	362.69	31.25	5.90
Butylbenzylphthalate	ND	ND	ND	16.72	ND	ND
Bis(2-ethylhexyl)phthalate	30.92	10.76	18.42	207.46	22.00	5.86
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	213.85	120.00	10.20	455.22	32.75	9.65
Benzo(k)fluoranthene	167.69	112.00	5.38	379.10	32.25	6.91
Benzo(e)pyrene	164.62	104.53	5.03	382.09	27.88	6.11
Benzo(a)pyrene	155.38	97.60	2.57	332.84	26.38	3.08
Perylene	1476.92	1546.67	2250.00	1059.70	1078.75	1772.15
Indeno(1,2,3-c,d)pyrene	146.00	93.87	6.57	359.70	28.13	6.81
Dibenz(a,h)anthracene	31.38	17.87	ND	75.07	4.55	ND
Benzo(g,h,i)perylene	140.62	94.67	5.83	338.81	25.75	5.35
TOTAL PAH	3973.55	3440.30	2356.20	5761.99	1571.22	1889.94
Low PAH	294.48	283.35	17.48	491.48	78.04	17.74
High PAH	3679.07	3156.95	2338.72	5270.51	1493.18	1872.20
Total Phthalates	84.16	30.67	28.39	279.74	40.10	19.18

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT25	ORT25	ORT25	ORT26	ORT26	ORT26
FIELD_ID	LSJ98SORT25SA	LSJ98SORT25MA	LSJ98SORT25LA	LSJ98SORT26SA	LSJ98SORT26MA	LSJ98SORT26LA
BATCH_ID	98-120	98-120	98-120	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	44.56	52.93	5.95	54.34	58.73	5.35
2-Methylnaphthalene	26.32	20.34	2.73	30.38	11.30	1.95
1-Methylnaphthalene	13.98	9.14	2.17	14.62	6.65	2.40
Biphenyl	10.27	8.88	2.17	9.49	7.71	1.87
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	14.86	9.66	1.76	16.25	3.88	ND
Dimethylphthalate	18.57	4.24	ND	8.11	1.86	ND
2,3,5-Trimethylnaphthalene	5.97	3.70	ND	5.42	2.16	ND
Acenaphthylene	57.14	39.39	ND	43.47	22.60	ND
Acenaphthene	26.57	9.23	ND	13.11	5.29	ND
Fluorene	41.86	18.05	2.05	24.17	14.68	2.05
Diethylphthalate	19.43	7.85	5.76	7.78	5.04	5.74
Phenanthrene	274.29	99.15	4.75	123.75	62.08	4.76
Anthracene	142.29	60.24	1.64	77.78	30.00	1.82
1-Methylphenanthrene	43.43	20.73	1.74	20.00	12.12	2.14
Di-N-butylphthalate	51.29	31.22	8.75	33.06	18.57	12.99
Fluoranthene	1280.00	546.34	13.41	654.17	287.01	22.99
Pyrene	1311.43	676.83	27.16	790.28	329.87	20.23
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	551.56	230.00	4.35	291.04	90.52	6.02
Chrysene	1042.19	316.25	7.61	440.30	101.56	6.59
Butylbenzylphthalate	48.28	14.50	3.34	24.63	3.88	4.00
Bis(2-ethylhexyl)phthalate	221.88	39.88	6.69	195.52	17.14	7.78
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1289.06	367.50	15.28	555.22	124.42	11.44
Benzo(k)fluoranthene	937.50	292.50	8.99	413.43	104.55	9.16
Benzo(e)pyrene	962.50	293.75	8.10	425.37	103.25	6.85
Benzo(a)pyrene	828.13	255.00	5.12	374.63	102.08	4.44
Perylene	1237.50	1637.50	3044.94	1582.09	1753.25	1529.41
Indeno(1,2,3-c,d)pyrene	1031.25	276.25	9.66	408.96	106.88	6.86
Dibenz(a,h)anthracene	196.88	58.00	1.67	84.48	18.18	1.49
Benzo(g,h,i)perylene	923.44	255.00	9.94	376.12	107.53	7.46
TOTAL PAH	12292.96	5556.36	3181.20	6828.86	3466.28	1655.26
Low PAH	701.53	351.44	24.96	432.77	237.19	22.32
High PAH	11591.43	5204.92	3156.24	6396.09	3229.09	1632.94
Total Phthalates	359.44	97.69	24.53	269.09	46.49	30.50

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT27	ORT27	ORT27	ORT28	ORT28	ORT28
FIELD_ID	LSJ98SORT27SA	LSJ98SORT27MA	LSJ98SORT27LA	LSJ98SORT28SA	LSJ98SORT28MA	LSJ98SORT28LA
BATCH_ID	98-076	98-076	98-076	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	45.56	40.14	3.77	36.94	50.18	5.65
2-Methylnaphthalene	21.90	15.14	2.70	20.16	15.52	2.61
1-Methylnaphthalene	10.49	7.47	1.56	9.71	8.68	1.83
Biphenyl	9.03	7.11	0.75	7.27	7.87	1.92
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	13.29	8.98	1.13	10.39	6.81	ND
Dimethylphthalate	9.19	4.45	0.78	8.68	1.78	ND
2,3,5-Trimethylnaphthalene	5.30	4.36	2.03	2.75	2.96	ND
Acenaphthylene	35.95	24.09	0.83	37.14	29.24	ND
Acenaphthene	15.06	8.35	0.98	11.21	6.96	ND
Fluorene	22.03	12.73	2.00	19.09	15.95	2.21
Diethylphthalate	13.67	5.88	4.63	9.16	5.90	5.70
Phenanthrene	146.84	75.00	4.62	90.91	71.90	5.23
Anthracene	59.24	33.75	1.66	62.08	48.73	2.44
1-Methylphenanthrene	25.32	14.32	1.14	17.92	13.54	2.12
Di-N-butylphthalate	363.29	31.70	5.46	67.01	16.84	18.70
Fluoranthene	840.51	432.95	23.54	507.79	393.67	31.82
Pyrene	930.38	530.68	29.49	620.78	448.10	39.61
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	354.55	183.72	7.05	230.67	141.77	7.88
Chrysene	581.82	262.79	11.51	361.33	181.01	8.92
Butylbenzylphthalate	34.94	14.53	2.40	17.07	6.14	ND
Bis(2-ethylhexyl)phthalate	149.35	68.02	5.71	103.20	17.47	12.28
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	711.69	308.14	12.03	444.00	203.80	14.36
Benzo(k)fluoranthene	571.43	247.67	9.63	344.00	177.22	9.36
Benzo(e)pyrene	546.75	248.84	9.54	344.00	174.68	7.59
Benzo(a)pyrene	519.48	238.37	7.94	309.33	151.90	5.19
Perylene	1727.27	1406.98	401.25	838.67	1772.15	2243.59
Indeno(1,2,3-c,d)pyrene	555.84	225.58	7.59	325.33	182.28	8.90
Dibenz(a,h)anthracene	111.69	48.95	1.54	65.60	35.95	1.50
Benzo(g,h,i)perylene	515.58	231.40	8.04	302.67	178.48	8.38
TOTAL PAH	8376.99	4617.53	552.30	5019.74	4319.36	2411.12
Low PAH	410.00	251.45	23.17	325.57	278.35	24.01
High PAH	7966.99	4366.08	529.14	4694.17	4041.01	2387.11
Total Phthalates	570.44	124.59	18.99	205.11	48.13	36.68

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT29	ORT29	ORT29	ORT30	ORT30	ORT30
FIELD_ID	LSJ98SORT29SA	LSJ98SORT29MA	LSJ98SORT29LA	LSJ98SORT30SA	LSJ98SORT30MA	LSJ98SORT30LA
BATCH_ID	98-076	98-076	98-076	98-191	98-191	98-191
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	4.91	44.19	7.13	20.00	1.55	2.60
2-Methylnaphthalene	2.13	4.52	0.99	4.36	0.66	0.81
1-Methylnaphthalene	1.20	3.18	0.48	2.47	0.57	ND
Biphenyl	1.25	3.17	0.52	1.93	0.43	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	0.95	1.35	ND	2.65	ND	ND
Dimethylphthalate	1.02	0.90	0.89	1.38	ND	ND
2,3,5-Trimethylnaphthalene	1.81	1.22	ND	1.27	ND	ND
Acenaphthylene	1.25	11.14	ND	9.13	ND	ND
Acenaphthene	0.57	2.73	ND	2.25	ND	ND
Fluorene	1.90	4.49	1.13	3.38	0.77	ND
Diethylphthalate	4.18	6.67	9.10	10.73	1.91	3.26
Phenanthrene	6.85	17.18	1.90	20.33	1.51	1.83
Anthracene	2.10	5.73	0.53	10.10	ND	ND
1-Methylphenanthrene	1.59	3.54	ND	3.25	0.78	ND
Di-N-butylphthalate	15.57	17.82	13.16	14.37	27.27	6.38
Fluoranthene	33.42	76.92	3.80	78.17	5.89	5.38
Pyrene	50.00	101.28	15.44	62.67	6.74	7.19
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	10.58	25.06	0.91	29.82	1.10	0.96
Chrysene	16.79	29.61	2.51	34.74	1.65	2.09
Butylbenzylphthalate	33.59	1.56	2.19	1.84	8.18	ND
Bis(2-ethylhexyl)phthalate	6.67	7.78	8.50	28.07	610.77	6.87
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	17.18	32.34	3.71	39.12	1.83	1.78
Benzo(k)fluoranthene	14.87	30.13	2.42	39.30	1.49	1.40
Benzo(e)pyrene	13.33	27.79	2.26	36.32	1.22	1.29
Benzo(a)pyrene	12.36	29.09	894.87	28.07	0.38	ND
Perylene	520.51	472.73	882.05	43.86	313.85	158.46
Indeno(1,2,3-c,d)pyrene	11.47	23.12	1.88	40.18	1.12	0.46
Dibenz(a,h)anthracene	2.05	4.47	ND	7.93	ND	ND
Benzo(g,h,i)perylene	10.33	25.84	1.78	38.25	1.42	0.82
TOTAL PAH	739.41	980.82	1824.31	559.55	342.97	185.07
Low PAH	26.51	102.43	12.67	81.13	6.27	5.23
High PAH	712.90	878.39	1811.64	478.41	336.70	179.84
Total Phthalates	61.02	34.73	33.85	56.40	648.14	16.51

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT31	ORT31	ORT31	ORT32	ORT32	ORT32
FIELD_ID	LSJ98SORT31SA	LSJ98SORT31MA	LSJ98SORT31LA	LSJ98SORT32SA	LSJ98SORT32MA	LSJ98SORT32LA
BATCH_ID	98-120	98-120	98-120	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	70.45	62.96	2.60	49.17	28.55	2.92
2-Methylnaphthalene	44.39	16.43	1.84	26.83	10.10	1.75
1-Methylnaphthalene	23.48	10.72	1.50	12.93	5.43	1.65
Biphenyl	13.29	8.01	0.85	8.54	5.18	0.91
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	21.97	6.85	ND	11.92	4.22	1.52
Dimethylphthalate	5.63	ND	1.88	4.52	ND	ND
2,3,5-Trimethylnaphthalene	8.34	4.22	ND	5.01	2.83	ND
Acenaphthylene	62.89	60.41	ND	40.12	32.63	ND
Acenaphthene	26.71	12.84	ND	14.46	6.34	ND
Fluorene	29.34	25.34	0.75	19.28	11.42	1.17
Diethylphthalate	10.62	4.45	2.36	7.28	4.70	2.16
Phenanthrene	285.53	198.63	3.05	144.58	100.92	3.04
Anthracene	106.45	80.82	0.93	70.12	43.55	1.31
1-Methylphenanthrene	49.47	34.11	0.93	30.00	18.03	1.44
Di-N-butylphthalate	34.87	10.12	5.19	21.08	13.29	5.46
Fluoranthene	1282.89	1083.56	7.97	734.94	534.21	12.35
Pyrene	1232.89	923.29	25.41	759.04	509.21	9.54
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	592.54	416.44	3.38	315.38	197.44	3.06
Chrysene	738.81	490.41	4.97	419.23	237.18	3.60
Butylbenzylphthalate	120.60	11.59	85.00	32.82	ND	1.15
Bis(2-ethylhexyl)phthalate	304.48	38.36	6.80	80.38	7.17	4.92
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1035.82	627.40	6.38	570.51	264.10	4.83
Benzo(k)fluoranthene	761.19	526.03	5.72	439.74	250.00	4.08
Benzo(e)pyrene	802.99	502.74	4.72	450.00	226.92	3.20
Benzo(a)pyrene	864.18	571.23	4.15	432.05	256.41	2.51
Perylene	1129.85	1301.37	606.76	785.90	879.49	407.23
Indeno(1,2,3-c,d)pyrene	922.39	567.12	5.36	458.97	239.74	3.53
Dibenz(a,h)anthracene	174.63	112.88	0.83	95.00	47.18	ND
Benzo(g,h,i)perylene	847.76	521.92	6.65	414.10	215.38	3.78
TOTAL PAH	11128.27	8165.73	694.73	6307.83	4126.49	473.43
Low PAH	742.33	521.34	12.44	432.96	269.22	15.71
High PAH	10385.94	7644.38	682.29	5874.87	3857.27	457.72
Total Phthalates	476.19	64.52	101.23	146.08	25.15	13.69

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT33	ORT33	ORT34	ORT34	ORT35	ORT35
FIELD_ID	LSJ98SORT33B	LSJ98SORT33A	LSJ98SORT34SA	LSJ98SORT34MA	LSJ98SORT35SA	LSJ98SORT35MA
BATCH_ID	98-356	98-356	98-337	98-356	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	2.70	2.47	5.39	2.80	ND	ND
Naphthalene	28.41	42.65	59.70	34.36	34.92	37.58
2-Methylnaphthalene	21.00	22.24	19.42	7.95	12.77	15.30
1-Methylnaphthalene	13.16	14.41	11.58	4.47	6.18	7.74
Biphenyl	4.69	6.24	9.61	5.22	5.74	6.82
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	6.89	6.77	8.69	2.72	5.68	7.81
Dimethylphthalate	6.23	19.44	4.08	ND	4.38	6.18
2,3,5-Trimethylnaphthalene	3.63	4.04	3.20	1.31	3.01	3.31
Acenaphthylene	37.23	37.89	27.29	15.06	23.68	31.41
Acenaphthene	29.69	28.59	8.08	3.38	6.71	9.37
Fluorene	31.23	31.13	14.17	7.93	11.32	13.97
Diethylphthalate	6.29	7.70	19.49	6.47	6.20	5.81
Phenanthrene	575.38	554.93	71.86	32.81	62.11	76.15
Anthracene	115.54	114.79	43.22	18.99	38.55	49.10
1-Methylphenanthrene	49.69	49.72	11.41	5.49	13.55	12.95
Di-N-butylphthalate	36.46	31.41	61.02	14.38	17.76	19.10
Fluoranthene	2292.31	2239.44	325.42	182.02	317.11	456.41
Pyrene	1815.38	1760.56	400.00	206.74	394.74	552.56
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	802.99	768.57	133.27	55.28	133.92	197.37
Chrysene	1362.69	1374.29	173.27	63.82	200.00	298.68
Butylbenzylphthalate	85.67	73.14	14.07	3.40	12.70	26.71
Bis(2-ethylhexyl)phthalate	1255.22	1585.71	236.36	128.09	34.32	48.95
Di-N-octylphthalate	101.64	122.57	26.00	1.90	ND	ND
Benzo(b)fluoranthene	1582.09	1771.43	216.36	76.85	255.41	371.05
Benzo(k)fluoranthene	1300.00	1148.57	198.18	67.30	198.65	313.16
Benzo(e)pyrene	1135.82	1155.71	169.82	64.16	202.70	303.95
Benzo(a)pyrene	1179.10	1184.29	162.91	62.92	174.32	257.89
Perylene	394.03	371.43	1776.36	1111.24	1391.89	1328.95
Indeno(1,2,3-c,d)pyrene	1250.75	1275.71	167.64	58.65	193.24	300.00
Dibenz(a,h)anthracene	273.13	297.14	33.27	10.69	38.51	59.87
Benzo(g,h,i)perylene	928.36	984.29	138.55	62.02	186.49	280.26
TOTAL PAH	15233.20	15244.83	4183.30	2161.40	3911.20	4991.68
Low PAH	916.55	913.40	288.24	139.70	224.22	271.52
High PAH	14316.65	14331.43	3895.06	2021.70	3686.98	4720.16
Total Phthalates	1491.52	1839.98	361.03	154.25	75.37	106.75

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT35	ORT36	ORT36	ORT36	ORT37	ORT37
FIELD_ID	LSJ98SORT35LA	LSJ98SORT36SA	LSJ98SORT36MA	LSJ98SORT36LA	LSJ98SORT37SA	LSJ98SORT37MA
BATCH_ID	98-119	98-120	98-120	98-120	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	ND	ND	ND
Naphthalene	12.08	30.17	38.42	6.60	50.38	24.00
2-Methylnaphthalene	2.63	13.36	11.88	4.34	20.75	6.55
1-Methylnaphthalene	2.13	7.36	7.40	2.32	10.55	4.65
Biphenyl	2.03	5.38	6.35	2.21	9.07	3.70
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	ND	5.39	4.54	ND	10.37	2.95
Dimethylphthalate	1.32	2.59	ND	ND	5.55	8.22
2,3,5-Trimethylnaphthalene	ND	2.25	2.74	ND	4.06	1.74
Acenaphthylene	2.18	24.34	23.38	ND	31.94	8.34
Acenaphthene	ND	7.18	4.35	ND	10.34	2.75
Fluorene	2.80	13.03	11.78	2.60	19.40	6.34
Diethylphthalate	8.59	4.45	5.86	4.72	17.01	4.07
Phenanthrene	10.39	58.68	53.92	6.10	111.19	38.08
Anthracene	3.62	39.21	33.11	2.21	59.40	14.38
1-Methylphenanthrene	2.20	12.83	12.28	2.49	20.30	9.26
Di-N-butylphthalate	7.00	14.34	19.86	11.18	30.60	14.93
Fluoranthene	44.26	315.79	348.65	24.86	586.57	175.34
Pyrene	49.51	419.74	366.22	33.89	719.40	208.22
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	13.08	139.19	115.54	6.39	251.56	59.05
Chrysene	13.00	209.46	136.49	7.47	418.75	88.92
Butylbenzylphthalate	ND	13.26	5.51	10.19	20.16	4.42
Bis(2-ethylhexyl)phthalate	11.18	922.97	58.78	10.10	79.53	17.03
Di-N-octylphthalate	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	21.15	263.51	162.16	13.17	503.13	98.65
Benzo(k)fluoranthene	14.23	210.81	128.11	9.06	414.06	91.62
Benzo(e)pyrene	13.20	209.46	131.76	6.96	407.81	81.49
Benzo(a)pyrene	10.93	182.43	121.76	3.68	348.44	73.24
Perylene	1275.41	1405.41	2013.51	2000.00	1796.88	1295.95
Indeno(1,2,3-c,d)pyrene	16.23	204.05	129.46	8.49	401.56	87.16
Dibenz(a,h)anthracene	2.10	40.54	25.41	ND	78.44	14.59
Benzo(g,h,i)perylene	16.38	191.89	116.89	8.04	376.56	82.70
TOTAL PAH	1529.55	4011.47	4006.11	2150.86	6660.93	2479.69
Low PAH	40.08	219.18	210.16	28.86	357.77	122.75
High PAH	1489.48	3792.28	3795.95	2122.00	6303.16	2356.94
Total Phthalates	28.09	957.61	90.03	36.19	152.85	48.67

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT37	ORT38	ORT38	ORT39	ORT39	ORT39-1
FIELD_ID	LSJ98SORT37LA	LSJ98SORT38SA	LSJ98SORT38MA	LSJ98SORT39SA	LSJ98SORT39MA	LSJ98SORT391SA
BATCH_ID	98-119	98-191	98-191	98-076	98-076	98-337
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	ND	ND	ND	1.26	ND	7.66
Naphthalene	10.86	58.54	26.67	44.18	23.68	40.00
2-Methylnaphthalene	6.88	20.06	5.71	14.81	6.15	15.40
1-Methylnaphthalene	4.38	8.77	3.29	6.52	3.54	7.74
Biphenyl	2.36	8.87	3.18	7.70	4.01	7.38
2-Chloronaphthalene	ND	ND	ND	ND	1.13	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.29	9.19	1.82	6.43	2.49	9.54
Dimethylphthalate	ND	2.69	1.95	3.43	2.55	5.48
2,3,5-Trimethylnaphthalene	1.16	3.83	1.09	3.17	1.76	2.19
Acenaphthylene	3.84	42.04	8.53	23.60	13.21	17.62
Acenaphthene	2.20	9.93	2.42	6.71	3.18	4.51
Fluorene	4.53	16.94	5.91	13.60	8.63	9.79
Diethylphthalate	4.22	5.09	12.04	8.60	7.65	9.84
Phenanthrene	22.76	77.96	22.18	55.00	29.05	38.25
Anthracene	8.11	59.26	9.87	32.56	19.29	24.76
1-Methylphenanthrene	4.96	11.72	3.65	10.64	5.69	6.38
Di-N-butylphthalate	12.12	36.11	232.73	35.70	10.77	28.41
Fluoranthene	114.87	394.44	114.91	295.35	165.48	238.10
Pyrene	125.79	587.04	148.73	450.00	192.86	285.71
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	41.47	160.59	30.39	116.09	76.05	74.50
Chrysene	72.27	225.49	39.02	147.13	106.05	94.50
Butylbenzylphthalate	8.20	25.49	14.33	6.55	43.02	61.00
Bis(2-ethylhexyl)phthalate	24.40	41.57	23.14	23.68	5.35	400.00
Di-N-octylphthalate	ND	ND	ND	ND	ND	22.33
Benzo(b)fluoranthene	87.47	254.90	41.76	156.32	82.09	118.67
Benzo(k)fluoranthene	68.53	250.98	40.78	141.38	74.42	103.67
Benzo(e)pyrene	63.87	241.18	38.04	139.08	64.42	90.17
Benzo(a)pyrene	52.53	166.47	20.98	125.29	73.26	83.83
Perylene	1373.33	1980.39	680.39	2390.80	843.02	2450.00
Indeno(1,2,3-c,d)pyrene	65.33	260.78	38.04	109.08	50.35	90.00
Dibenz(a,h)anthracene	12.63	55.49	7.59	24.60	11.55	17.17
Benzo(g,h,i)perylene	59.73	241.18	42.35	135.63	54.65	70.17
TOTAL PAH	2212.12	5146.05	1337.31	4455.68	1914.86	3900.05
Low PAH	74.30	327.12	94.32	224.93	120.68	183.57
High PAH	2137.82	4818.93	1242.99	4230.75	1794.18	3716.48
Total Phthalates	48.94	110.95	284.18	77.96	69.35	527.06

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT39-1	ORT39-1	ORT40	ORT40	ORT40	ORT41
FIELD_ID	LSJ98SORT391MA	LSJ98SORT391LA	LSJ98SORT40SA	LSJ98SORT40MA	LSJ98SORT40LA	LSJ98SORT41SA
BATCH_ID	98-336	98-336	98-191	98-191	98-191	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	3.63	3.82	ND	ND	ND	2.24
Naphthalene	93.25	8.72	36.23	27.00	6.65	15.27
2-Methylnaphthalene	27.50	2.78	15.23	9.27	2.98	4.63
1-Methylnaphthalene	13.23	1.86	8.60	5.54	1.50	2.57
Biphenyl	13.74	4.42	6.93	4.17	1.58	4.32
2-Chloronaphthalene	ND	ND	ND	1.31	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	10.16	1.88	9.17	4.05	ND	2.27
Dimethylphthalate	ND	ND	4.13	0.75	ND	ND
2,3,5-Trimethylnaphthalene	4.66	1.69	3.77	ND	ND	1.05
Acenaphthylene	35.86	1.46	39.50	22.40	ND	6.30
Acenaphthene	10.48	ND	12.67	3.53	ND	1.58
Fluorene	23.97	4.63	14.00	7.25	3.63	4.36
Diethylphthalate	56.03	51.23	12.70	4.71	4.35	6.75
Phenanthrene	91.21	8.37	75.00	33.47	6.22	18.44
Anthracene	54.66	3.00	54.83	26.67	1.66	10.17
1-Methylphenanthrene	11.24	3.55	13.97	6.99	2.53	7.13
Di-N-butylphthalate	27.93	12.58	19.83	24.40	24.90	17.01
Fluoranthene	406.90	39.38	381.67	276.00	28.16	90.13
Pyrene	532.76	49.69	601.67	314.67	64.69	126.75
Kepone	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	147.96	9.97	174.11	78.55	4.98	30.41
Chrysene	187.04	11.88	271.43	104.49	7.96	40.81
Butylbenzylphthalate	7.52	16.57	41.43	41.59	37.40	8.27
Bis(2-ethylhexyl)phthalate	119.07	59.83	108.93	14.64	10.66	204.05
Di-N-octylphthalate	ND	7.55	ND	ND	ND	55.41
Benzo(b)fluoranthene	207.41	20.00	300.00	104.78	11.08	51.22
Benzo(k)fluoranthene	182.59	13.93	271.43	102.46	8.60	44.19
Benzo(e)pyrene	169.07	10.14	262.50	90.58	6.98	38.24
Benzo(a)pyrene	154.44	6.24	142.86	60.58	2.44	34.19
Perylene	3203.70	2362.07	1532.14	1102.90	1806.00	1418.92
Indeno(1,2,3-c,d)pyrene	151.85	13.69	296.43	104.49	7.04	38.24
Dibenz(a,h)anthracene	32.78	ND	63.39	22.46	ND	6.64
Benzo(g,h,i)perylene	117.96	15.14	275.00	98.55	6.46	33.11
TOTAL PAH	5884.41	2594.49	4862.51	2610.87	1981.15	2030.95
Low PAH	389.94	42.37	289.89	150.35	26.75	78.11
High PAH	5494.47	2552.13	4572.62	2460.52	1954.40	1952.84
Total Phthalates	210.56	147.76	187.02	86.09	77.30	291.50

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8270M - SURROGATE CORRECTED

SITE_ID	ORT41	ORT41
FIELD_ID	LSJ98SORT41MA	LSJ98SORT41LA
BATCH_ID	98-336	98-336
MATRIX	Sediment	Sediment
ANAL_MET	8270-MOD	8270-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.
Isophorone	2.58	2.38
Naphthalene	54.44	5.34
2-Methylnaphthalene	16.76	2.57
1-Methylnaphthalene	9.20	1.91
Biphenyl	10.84	1.72
2-Chloronaphthalene	ND	ND
1-Chloronaphthalene	ND	ND
2,6-Dimethylnaphthalene	8.21	1.60
Dimethylphthalate	6.68	ND
2,3,5-Trimethylnaphthalene	3.68	1.00
Acenaphthylene	37.62	ND
Acenaphthene	6.68	ND
Fluorene	16.35	3.13
Diethylphthalate	35.08	28.06
Phenanthrene	69.52	5.91
Anthracene	56.19	1.93
1-Methylphenanthrene	15.41	3.22
Di-N-butylphthalate	18.25	8.78
Fluoranthene	453.97	27.76
Pyrene	520.63	26.87
Kepone	ND	ND
Benzo(a)anthracene	169.31	6.18
Chrysene	200.00	7.05
Butylbenzylphthalate	26.03	16.31
Bis(2-ethylhexyl)phthalate	113.62	43.85
Di-N-octylphthalate	12.16	ND
Benzo(b)fluoranthene	225.86	14.78
Benzo(k)fluoranthene	212.07	8.95
Benzo(e)pyrene	177.59	7.34
Benzo(a)pyrene	167.24	4.18
Perylene	3172.41	1815.38
Indeno(1,2,3-c,d)pyrene	163.45	8.63
Dibenz(a,h)anthracene	35.17	ND
Benzo(g,h,i)perylene	127.93	10.72
TOTAL PAH	5930.55	1966.19
Low PAH	304.91	28.33
High PAH	5625.64	1937.86
Total Phthalates	211.83	96.99

Appendix C. PCB, Pesticide, and other Chlorinated Compound (Method 8081M) Data

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	CED01	CED01	CED02	CED03	CED03	CED03
FIELD_ID	LSJ98SCED01SA	LSJ98SCED01MA	LSJ98SCED02SA	LSJ98SCED03SA	LSJ98SCED03MA	LSJ98SCED03LA
BATCH_ID	98-076	98-076	98-076	98-356	98-336	98-336
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	1.04	ND	ND
1,2,4-Trichlorobenzene	ND	1.57	ND	2.10	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	25.60	33.38	3.07	ND	ND
1,4-Dichlorobenzene	37.64	ND	ND	ND	ND	ND
Hexachlorobenzene	4.15	ND	19.81	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	0.10	0.20	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
2,4-DDD	5.70	1.66	12.83	3.81	ND	12.59
4,4-DDD	46.53	4.99	5.90	3.65	0.43	9.56
2,4-DDE	ND	0.65	ND	ND	ND	ND
4,4-DDE	32.96	68.99	8.86	10.50	ND	14.57
2,4-DDT	ND	0.90	ND	ND	ND	ND
4,4-DDT	2.62	2.16	3.63	0.73	ND	ND
Aldrin	ND	ND	ND	0.30	ND	2.31
a-BHC	ND	1.16	ND	ND	ND	ND
b-BHC	ND	ND	0.84	ND	0.05	ND
d-BHC	ND	ND	1.49	ND	ND	ND
g-BHC	ND	ND	2.62	ND	ND	ND
Cis-chlordane	2.83	1.74	4.77	4.26	ND	5.23
g-Chlordane	2.76	5.14	6.24	7.13	ND	5.21
Cis-nonachlor	17.35	4.22	12.07	7.99	ND	11.62
Dieldrin	ND	2.99	6.22	1.21	ND	ND
Dursban	ND	ND	1.64	1.08	ND	2.86
Endosulfan I	2.57	ND	ND	ND	ND	ND
Endosulfan II	8.27	1.29	3.46	ND	ND	ND
Endosulfan sulfate	18.16	4.29	5.59	3.65	ND	9.00
Endrin	ND	ND	2.59	1.82	ND	2.09
Endrin aldehyde	ND	0.57	ND	0.83	ND	ND
Endrin ketone	ND	ND	1.88	0.55	ND	ND
Heptachlor	ND	ND	1.42	0.26	ND	ND
Heptachlor epoxide	ND	0.25	ND	0.13	ND	ND
Methoxychlor	ND	1.52	4.37	ND	ND	ND
Mirex	ND	ND	ND	0.42	ND	ND
Oxychlordane	ND	2.59	5.22	2.92	ND	7.03
Trans-nonachlor	1.61	0.54	2.56	2.68	ND	1.63
Cl2(08)	217.28	ND	87.66	42.07	ND	156.73
Cl3(18)	374.35	6.64	308.44	95.65	0.49	635.58
Cl3(28)	372.25	8.56	248.05	78.91	ND	374.04
Cl4(44)	435.60	8.32	240.26	84.46	ND	276.92
Cl4(52)	664.92	12.56	601.95	184.78	0.18	1096.15
Cl4(66)	361.26	6.85	213.64	73.48	0.05	286.54
Cl4(77)	33.27	1.41	20.33	ND	ND	25.31
Cl5(101)	173.30	14.48	71.43	39.02	0.26	100.00
Cl5(105)	115.31	3.41	20.33	13.08	ND	27.78
Cl5(110)	381.63	14.43	70.33	50.00	ND	86.05
Cl5(118)	346.94	12.66	131.52	53.24	ND	139.51
Cl5(126)	ND	1.61	6.02	14.19	ND	5.17
Cl6(128)	26.12	2.46	11.63	4.74	ND	9.02
Cl6(129)	5.23	1.47	3.21	1.84	ND	2.98
Cl6(138)	131.63	29.75	62.72	40.00	ND	75.06
Cl6(153)	156.12	49.62	105.22	68.24	ND	125.93
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	25.00	8.90	20.54	24.32	ND	53.95
Cl7(180)	61.73	22.66	45.11	24.86	ND	58.89
Cl7(187)	32.04	12.27	21.41	12.99	ND	31.85
Cl8(195)	7.10	2.48	6.32	2.81	ND	5.60
Cl9(206)	5.97	2.53	5.57	2.18	ND	7.90
Cl10(209)	ND	2.28	ND	0.90	ND	2.84
DDT	2.62	3.06	3.63	0.73	ND	ND
DDD	52.23	6.65	18.73	7.46	0.43	22.15
DDE	32.96	69.63	8.86	10.50	ND	14.57
Total DDTs	87.82	79.34	31.22	18.69	0.43	36.72
BHCs	ND	1.16	4.94	ND	0.05	ND
Chlordanes	7.21	10.25	20.21	17.39	ND	19.11
Endosulfans	28.99	5.58	9.04	3.65	ND	9.00
PCBs	3927.05	225.32	2301.67	911.77	0.97	3583.80
Other Chlorinated	37.64	27.17	33.38	6.31	0.20	ND
Sum of 21 Congeners *	3893.79	222.31	2275.32	897.58	0.97	3553.32

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	CED04	CED04	CED04	CED05	CED06	CED06
FIELD_ID	LSJ98SCED04SA	LSJ98SCED04MA	LSJ98SCED04LA	LSJ98SCED05SA	LSJ98SCED06SA	LSJ98SCED06MA
BATCH_ID	98-337	98-356	98-356	98-191	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	0.33	2.35	0.43	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	1.14	0.82
1,2-Dichlorobenzene	ND	ND	ND	11.69	ND	ND
1,3-Dichlorobenzene	ND	8.13	ND	17.34	12.22	4.48
1,4-Dichlorobenzene	ND	ND	7.63	ND	13.11	12.44
Hexachlorobenzene	ND	ND	ND	ND	1.43	1.27
Hexachlorobutadiene	0.12	ND	ND	2.33	0.25	4.61
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	0.07	ND	ND
2,4-DDD	5.56	12.98	3.06	1.63	2.21	1.96
4,4-DDD	3.81	7.83	5.22	0.81	6.32	4.49
2,4-DDE	ND	ND	ND	ND	ND	0.42
4,4-DDE	9.74	6.44	26.98	5.47	10.07	15.73
2,4-DDT	ND	ND	ND	1.10	ND	ND
4,4-DDT	1.05	6.08	1.89	ND	4.79	1.36
Aldrin	1.01	0.66	ND	ND	0.55	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	0.25	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	ND	1.10	ND	1.30	1.63	1.73
Cis-chlordane	5.20	2.55	1.32	2.28	10.70	2.83
g-Chlordane	8.66	3.54	3.54	6.31	15.56	7.98
Cis-nonachlor	9.41	8.95	2.13	2.17	8.21	2.92
Dieldrin	2.73	ND	1.06	0.57	3.58	1.06
Dursban	1.46	1.38	0.53	ND	4.06	ND
Endosulfan I	ND	ND	0.54	0.27	ND	ND
Endosulfan II	ND	1.49	ND	0.56	4.12	1.04
Endosulfan sulfate	3.21	2.73	ND	1.60	2.84	1.15
Endrin	2.14	3.83	ND	0.34	ND	ND
Endrin aldehyde	0.91	2.93	0.35	0.40	ND	ND
Endrin ketone	0.31	ND	0.14	0.88	ND	ND
Heptachlor	ND	ND	ND	ND	0.37	ND
Heptachlor epoxide	ND	ND	0.11	ND	ND	0.41
Methoxychlor	ND	ND	1.60	ND	ND	ND
Mirex	ND	ND	0.37	0.19	0.30	ND
Oxychlordane	4.10	5.60	ND	ND	ND	1.30
Trans-nonachlor	2.76	1.11	0.40	0.86	6.90	0.95
Cl2(08)	47.63	76.67	ND	ND	10.22	ND
Cl3(18)	133.33	301.33	5.32	9.48	33.89	8.21
Cl3(28)	92.37	191.33	4.00	12.06	48.78	10.34
Cl4(44)	107.10	147.33	4.85	17.66	58.33	15.67
Cl4(52)	245.16	585.33	5.40	21.25	93.11	17.44
Cl4(66)	84.41	134.67	3.60	11.97	54.11	10.89
Cl4(77)	7.13	14.52	1.05	ND	4.18	0.85
Cl5(101)	46.67	37.80	9.20	9.14	31.78	8.43
Cl5(105)	9.47	7.44	1.33	2.20	8.57	1.74
Cl5(110)	44.00	31.19	7.08	9.47	33.08	9.02
Cl5(118)	53.65	78.69	5.05	6.66	34.07	6.81
Cl5(126)	46.35	21.07	24.13	ND	ND	ND
Cl6(128)	3.66	ND	0.11	1.27	2.96	ND
Cl6(129)	ND	1.90	0.46	ND	ND	ND
Cl6(138)	40.47	33.33	7.97	ND	22.53	5.08
Cl6(153)	78.59	74.17	12.78	6.77	26.15	4.15
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	27.06	17.98	4.59	2.87	3.60	1.58
Cl7(180)	28.12	31.07	6.03	3.24	14.62	3.13
Cl7(187)	15.41	15.83	3.65	6.24	8.81	4.91
Cl8(195)	3.51	4.17	1.43	0.42	ND	ND
Cl9(206)	5.28	5.68	1.94	0.56	ND	ND
Cl10(209)	1.22	2.75	3.87	0.15	ND	ND
DDT	1.05	6.08	1.89	1.10	4.79	1.36
DDD	9.38	20.81	8.29	2.44	8.53	6.45
DDE	9.74	6.44	26.98	5.47	10.07	16.15
Total DDTs	20.17	33.33	37.16	9.00	23.38	23.97
BHCs	ND	1.10	0.25	1.30	1.63	1.73
Chlordanes	20.72	12.80	5.36	9.45	33.53	13.47
Endosulfans	3.21	4.21	0.54	2.43	6.96	2.19
PCBs	1120.58	1814.26	113.84	121.42	488.78	108.25
Other Chlorinated	0.12	8.46	9.98	31.86	26.72	22.35
Sum of 21 Congeners *	1067.10	1778.67	88.66	121.42	484.61	107.41

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	CED06	CED07	CED07	CED07	CED08	CED08
FIELD_ID	LSJ98SCED06LA	LSJ98SCED07SA	LSJ98SCED07MA	LSJ98SCED07LA	LSJ98SCED08SA	LSJ98SCED08MA
BATCH_ID	98-119	98-119	98-119	98-119	98-076	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.57	1.03	0.88	ND	1.28	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.72	10.82	8.93	15.44	3.57	ND
1,4-Dichlorobenzene	13.47	21.96	20.67	15.88	30.22	12.41
Hexachlorobenzene	2.88	8.51	6.87	3.22	ND	1.46
Hexachlorobutadiene	1.65	1.32	1.10	1.38	0.13	0.36
Hexachlorocyclopentadiene	0.11	0.77	0.45	0.19	ND	0.23
Hexachloroethane	ND	0.22	0.26	0.34	ND	0.05
2,4-DDD	0.64	0.57	1.84	ND	2.87	0.56
4,4-DDD	ND	3.06	5.09	0.90	2.77	3.76
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	ND	4.39	4.66	ND	4.74	5.01
2,4-DDT	ND	1.42	3.80	ND	ND	0.43
4,4-DDT	0.81	2.70	3.31	1.45	2.70	3.08
Aldrin	0.11	ND	ND	0.70	0.95	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.55	1.85	2.02	1.69	ND	0.91
Cis-chlordane	ND	5.59	3.24	ND	6.92	3.94
g-Chlordane	ND	7.34	5.28	ND	9.29	9.42
Cis-nonachlor	ND	4.41	4.56	ND	5.28	4.48
Dieldrin	0.24	1.00	1.06	0.18	2.03	0.92
Dursban	ND	0.49	ND	ND	4.40	0.29
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	0.17	2.21	1.81	ND	0.95	1.34
Endosulfan sulfate	ND	2.07	1.96	ND	ND	ND
Endrin	ND	0.36	0.71	ND	ND	ND
Endrin aldehyde	ND	0.38	ND	ND	ND	ND
Endrin ketone	ND	2.12	5.40	2.25	1.23	ND
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	0.22	ND	0.19	0.18
Methoxychlor	1.58	ND	ND	2.42	3.03	ND
Mirex	0.72	0.26	0.38	0.48	ND	0.33
Oxychlordane	ND	1.25	2.00	ND	0.89	0.76
Trans-nonachlor	ND	2.09	1.05	ND	4.51	1.76
Cl2(08)	ND	47.93	72.47	ND	2.59	2.84
Cl3(18)	0.43	81.74	137.08	ND	6.87	7.67
Cl3(28)	3.87	82.83	104.38	ND	11.41	11.54
Cl4(44)	0.09	87.50	94.49	0.37	13.80	15.18
Cl4(52)	0.42	153.26	186.52	0.91	26.30	25.30
Cl4(66)	ND	70.11	73.37	ND	13.04	12.77
Cl4(77)	ND	3.15	3.79	ND	2.25	ND
Cl5(101)	ND	35.87	24.16	ND	8.84	9.02
Cl5(105)	ND	4.38	2.53	ND	2.20	2.04
Cl5(110)	0.18	21.84	16.50	ND	10.68	10.13
Cl5(118)	ND	25.20	29.50	ND	9.01	9.16
Cl5(126)	ND	ND	ND	ND	4.28	ND
Cl6(128)	ND	3.02	3.33	ND	1.09	0.89
Cl6(129)	ND	ND	ND	ND	2.32	ND
Cl6(138)	0.66	14.08	9.91	0.28	11.75	7.16
Cl6(153)	0.33	30.64	30.50	0.32	13.50	11.20
Cl6(169)	ND	ND	ND	ND	ND	0.15
Cl7(170)	0.38	6.34	8.78	ND	4.18	6.40
Cl7(180)	ND	11.12	10.08	ND	5.19	4.75
Cl7(187)	0.60	7.11	8.39	1.36	2.56	3.14
Cl8(195)	ND	1.28	1.24	ND	0.68	0.52
Cl9(206)	ND	1.71	1.54	0.31	0.67	0.69
Cl10(209)	0.41	0.97	0.95	ND	0.69	0.61
DDT	0.81	4.12	7.11	1.45	2.70	3.50
DDD	0.64	3.63	6.93	0.90	5.64	4.33
DDE	ND	4.39	4.66	ND	4.74	5.01
Total DDTs	1.45	12.14	18.70	2.35	13.08	12.84
BHCs	1.55	1.85	2.02	1.69	ND	0.91
Chlordanes	ND	16.26	11.79	ND	21.80	16.06
Endosulfans	0.17	4.28	3.78	ND	0.95	1.34
PCBs	7.37	690.07	819.48	3.55	153.92	141.17
Other Chlorinated	19.52	36.11	32.30	33.23	35.20	13.05
Sum of 21 Congeners *	7.37	686.92	815.69	3.55	147.38	141.17

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	CED09	CED09	ORT01	ORT01	ORT01	ORT02
FIELD_ID	LSJ98SCED09SA	LSJ98SCED09MA	LSJ98SORT01SA	LSJ98SORT01MA	LSJ98SORT01LA	LSJ98SORT02SA
BATCH_ID	98-076	98-076	98-178	98-178	98-178	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	0.21	0.59	ND	ND
1,2,4-Trichlorobenzene	ND	1.58	ND	ND	ND	0.43
1,2-Dichlorobenzene	3.16	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2.60	3.67	ND	ND	ND	6.40
1,4-Dichlorobenzene	20.43	44.78	56.58	76.67	27.86	1.68
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	0.22	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
2,4-DDD	2.47	2.00	0.83	0.97	ND	0.25
4,4-DDD	9.28	7.85	2.59	2.84	ND	0.54
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	18.83	18.61	4.74	3.92	ND	0.45
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	5.51	2.51	2.41	3.18	1.16	0.60
Aldrin	1.10	1.23	ND	ND	ND	0.14
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	0.10
d-BHC	0.19	ND	ND	ND	ND	ND
g-BHC	0.35	ND	3.41	ND	ND	ND
Cis-chlordane	24.68	13.89	ND	ND	ND	ND
g-Chlordane	34.04	23.00	0.72	ND	ND	ND
Cis-nonachlor	17.66	15.44	0.51	ND	ND	ND
Dieldrin	4.36	2.96	0.53	0.60	ND	0.09
Dursban	4.65	1.97	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	4.18	ND	1.60	2.56	ND	ND
Endosulfan sulfate	1.63	1.82	1.47	0.30	ND	ND
Endrin	0.36	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	5.10	ND	1.59	ND	ND	0.10
Heptachlor	0.38	0.43	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	0.02
Methoxychlor	15.32	11.04	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	1.41	1.88	ND	ND	ND	ND
Trans-nonachlor	17.77	7.52	ND	ND	ND	ND
Cl2(08)	4.47	8.17	32.74	26.67	ND	ND
Cl3(18)	18.19	28.89	6.60	2.67	ND	1.58
Cl3(28)	28.62	38.89	5.96	2.35	ND	ND
Cl4(44)	35.43	48.78	10.12	2.28	ND	0.66
Cl4(52)	58.40	81.67	18.08	3.80	ND	1.03
Cl4(66)	28.09	44.00	8.26	2.15	ND	0.80
Cl4(77)	5.81	5.90	ND	ND	ND	0.16
Cl5(101)	23.09	27.33	15.07	ND	ND	0.82
Cl5(105)	5.36	6.75	1.53	0.20	ND	0.20
Cl5(110)	27.13	37.22	13.70	3.13	ND	0.71
Cl5(118)	26.81	37.47	9.12	2.87	ND	0.40
Cl5(126)	ND	ND	2.00	2.20	ND	ND
Cl6(128)	3.04	3.11	2.84	0.86	ND	ND
Cl6(129)	6.30	5.37	1.36	0.85	ND	3.06
Cl6(138)	32.66	40.38	11.20	3.38	0.67	1.04
Cl6(153)	38.19	52.91	17.28	4.39	ND	0.82
Cl6(169)	0.71	0.41	ND	ND	ND	ND
Cl7(170)	14.68	9.48	3.67	2.46	ND	ND
Cl7(180)	9.90	14.94	6.38	1.93	ND	0.59
Cl7(187)	5.31	8.05	5.44	2.28	0.62	0.35
Cl8(195)	2.85	2.90	0.56	0.17	ND	ND
Cl9(206)	1.91	2.24	1.05	0.83	ND	0.17
Cl10(209)	2.81	4.19	0.48	1.00	ND	0.14
DDT	5.51	2.51	2.41	3.18	1.16	0.60
DDD	11.74	9.85	3.43	3.80	ND	0.79
DDE	18.83	18.61	4.74	3.92	ND	0.45
Total DDTs	36.09	30.96	10.57	10.90	1.16	1.85
BHCs	0.55	ND	3.41	ND	ND	0.10
Chlordanes	78.29	46.72	0.72	ND	ND	0.02
Endosulfans	5.81	1.82	3.07	2.86	ND	ND
PCBs	379.76	509.03	173.46	66.47	1.29	12.52
Other Chlorinated	26.18	50.02	57.00	77.26	27.86	8.52
Sum of 21 Congeners *	373.95	503.13	171.46	64.27	1.29	12.35

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT02	ORT02	ORT03	ORT03	ORT03	ORT04
FIELD_ID	LSJ98SORT02MA	LSJ98SORT02LA	LSJ98SORT03SA	LSJ98SORT03MA	LSJ98SORT03LA	LSJ98SORT04SA
BATCH_ID	98-336	98-336	98-178	98-178	98-178	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.37	0.25	ND	0.32	ND	ND
1,2,4-Trichlorobenzene	0.58	ND	ND	ND	ND	0.99
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1.03	1.85	ND	ND	70.63	5.10
1,4-Dichlorobenzene	ND	ND	53.54	36.15	ND	5.63
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.08	ND	ND	ND	ND	0.14
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	0.10	0.15	ND	ND	ND	ND
2,4-DDD	1.61	ND	ND	ND	ND	0.91
4,4-DDD	1.24	ND	0.30	ND	0.69	1.53
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	2.27	ND	ND	ND	ND	1.96
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	0.27	ND	0.86	2.09	0.77	1.11
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	0.41	ND	ND	ND	ND	0.18
d-BHC	ND	ND	ND	ND	0.32	ND
g-BHC	1.91	1.92	1.82	2.80	1.89	ND
Cis-chlordane	ND	ND	ND	ND	ND	0.19
g-Chlordane	0.40	ND	ND	ND	ND	0.46
Cis-nonachlor	0.23	ND	ND	ND	ND	0.23
Dieldrin	ND	ND	ND	ND	0.20	0.29
Dursban	ND	ND	ND	ND	ND	0.18
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	0.19	ND	0.30	ND
Endosulfan sulfate	ND	ND	ND	0.28	0.15	0.19
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	0.08
Endrin ketone	ND	ND	ND	ND	ND	ND
Heptachlor	0.35	ND	ND	ND	ND	0.13
Heptachlor epoxide	ND	ND	ND	ND	ND	0.09
Methoxychlor	0.71	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	0.33	ND	ND	ND	ND	ND
Trans-nonachlor	ND	ND	ND	ND	ND	0.10
Cl2(08)	2.61	1.82	62.15	22.15	ND	ND
Cl3(18)	4.55	ND	ND	ND	ND	2.00
Cl3(28)	4.97	ND	ND	ND	ND	ND
Cl4(44)	6.60	ND	ND	ND	ND	1.57
Cl4(52)	8.70	ND	ND	ND	ND	3.10
Cl4(66)	5.00	ND	ND	ND	ND	2.04
Cl4(77)	0.30	ND	ND	ND	ND	0.27
Cl5(101)	4.60	ND	ND	ND	ND	3.20
Cl5(105)	0.47	ND	ND	ND	ND	0.55
Cl5(110)	2.76	ND	ND	ND	ND	3.11
Cl5(118)	1.77	ND	ND	ND	ND	1.75
Cl5(126)	3.63	ND	10.54	1.81	ND	ND
Cl6(128)	0.20	ND	ND	ND	ND	ND
Cl6(129)	0.69	ND	0.42	2.25	1.55	1.96
Cl6(138)	2.56	0.99	0.32	0.54	0.50	3.58
Cl6(153)	3.02	ND	0.14	ND	ND	4.92
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	0.66	ND	0.25	ND	0.74	0.87
Cl7(180)	1.35	ND	ND	ND	ND	1.96
Cl7(187)	0.67	ND	0.46	1.44	0.79	1.21
Cl8(195)	0.29	ND	ND	ND	0.27	0.13
Cl9(206)	ND	ND	ND	ND	ND	0.72
Cl10(209)	ND	ND	ND	ND	0.31	0.08
DDT	0.27	ND	0.86	2.09	0.77	1.11
DDD	2.85	ND	0.30	ND	0.69	2.44
DDE	2.27	ND	ND	ND	ND	1.96
Total DDTs	5.39	ND	1.16	2.09	1.45	5.52
BHCs	2.32	1.92	1.82	2.80	2.21	0.18
Chlordanes	1.08	ND	ND	ND	ND	0.97
Endosulfans	ND	ND	0.19	0.28	0.45	0.19
PCBs	55.38	2.81	74.29	28.19	4.15	33.04
Other Chlorinated	2.16	2.24	53.54	36.48	70.63	11.86
Sum of 21 Congeners *	51.46	2.81	63.75	26.38	4.15	32.77

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT04	ORT04	ORT05	ORT05	ORT05	ORT06
FIELD_ID	LSJ98SORT04MA	LSJ98SORT04LA	LSJ98SORT05SA	LSJ98SORT05MA	LSJ98SORT05LA	LSJ98SORT06SA
BATCH_ID	98-336	98-336	98-178	98-178	98-178	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	0.69	ND	ND	ND	0.46
1,2,4-Trichlorobenzene	ND	1.61	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.87	14.25	ND	ND	ND	ND
1,4-Dichlorobenzene	8.52	17.70	96.03	28.06	99.57	56.25
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	0.16	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	0.42	0.29	ND	ND	ND
Hexachloroethane	ND	0.10	ND	0.19	ND	0.23
2,4-DDD	3.49	19.39	1.29	ND	ND	0.49
4,4-DDD	5.31	10.94	2.37	0.89	1.41	1.29
2,4-DDE	1.37	ND	ND	ND	ND	ND
4,4-DDE	9.67	16.06	3.56	ND	ND	3.13
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	3.76	ND	2.56	2.31	1.84	1.06
Aldrin	ND	0.53	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	0.82	ND	ND	ND	ND	ND
d-BHC	0.10	ND	ND	ND	ND	ND
g-BHC	ND	ND	ND	ND	2.83	1.72
Cis-chlordane	0.63	7.82	ND	0.28	ND	ND
g-Chlordane	1.17	14.71	ND	0.21	ND	ND
Cis-nonachlor	0.98	20.15	0.39	ND	ND	0.17
Dieldrin	0.43	ND	ND	ND	ND	0.39
Dursban	0.51	3.57	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	1.52	0.29	ND	1.20
Endosulfan sulfate	1.95	15.02	0.81	0.24	ND	0.59
Endrin	0.53	8.15	ND	ND	ND	ND
Endrin aldehyde	ND	3.85	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND	ND	ND
Heptachlor	ND	0.60	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	20.91	ND	2.22	2.73	ND
Mirex	0.26	ND	ND	ND	0.33	ND
Oxychlordane	ND	4.74	ND	ND	ND	ND
Trans-nonachlor	0.27	4.13	ND	ND	ND	ND
Cl2(08)	3.33	40.69	66.03	17.01	36.60	39.22
Cl3(18)	4.55	92.18	5.19	ND	5.77	1.24
Cl3(28)	8.21	112.99	7.36	ND	ND	ND
Cl4(44)	10.75	137.93	7.97	ND	ND	1.80
Cl4(52)	20.93	227.59	12.03	0.53	ND	3.66
Cl4(66)	9.08	131.03	6.98	ND	ND	2.22
Cl4(77)	2.30	9.88	ND	ND	ND	ND
Cl5(101)	22.80	81.72	9.05	ND	ND	5.38
Cl5(105)	1.67	25.00	0.67	ND	ND	0.45
Cl5(110)	15.20	104.09	7.55	0.70	ND	3.84
Cl5(118)	8.62	147.12	5.77	2.28	2.98	2.60
Cl5(126)	ND	10.50	1.71	ND	1.94	ND
Cl6(128)	1.49	10.02	1.27	ND	ND	0.78
Cl6(129)	5.37	2.97	0.87	1.72	2.69	ND
Cl6(138)	18.29	103.18	5.92	1.04	0.67	3.89
Cl6(153)	27.32	151.21	8.33	0.43	ND	5.27
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	6.28	121.06	3.18	0.76	0.91	1.98
Cl7(180)	9.76	64.24	3.32	0.15	ND	2.29
Cl7(187)	6.07	27.27	2.77	0.84	0.82	1.84
Cl8(195)	0.90	6.89	ND	ND	ND	0.11
Cl9(206)	1.05	5.14	ND	ND	ND	0.62
Cl10(209)	0.85	2.94	ND	ND	ND	0.39
DDT	3.76	ND	2.56	2.31	1.84	1.06
DDD	8.80	30.33	3.66	0.89	1.41	1.77
DDE	11.05	16.06	3.56	ND	ND	3.13
Total DDTs	23.60	46.39	9.78	3.20	3.25	5.96
BHCs	0.92	ND	ND	ND	2.83	1.72
Chlordanes	2.07	31.99	ND	0.49	ND	ND
Endosulfans	1.95	15.02	2.33	0.54	ND	1.79
PCBs	184.83	1615.65	155.96	25.46	52.38	77.54
Other Chlorinated	12.39	34.92	96.32	28.25	99.57	56.94
Sum of 21 Congeners *	182.53	1595.27	154.25	25.46	50.43	77.54

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT06	ORT06	ORT06-1	ORT06-1	ORT06-1	ORT07
FIELD_ID	LSJ98SORT06MA	LSJ98SORT06LA	LSJ98SORT061SA	LSJ98SORT061MA	LSJ98SORT061LA	LSJ98SORT07SA
BATCH_ID	98-178	98-178	98-337	98-356	98-356	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.14	0.57	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	0.17	ND	ND	1.54
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	3.10	ND	5.61	5.00
1,4-Dichlorobenzene	51.43	56.33	ND	ND	2.39	2.04
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	0.13	0.11	0.24	0.11
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	0.11	0.07	ND	ND	ND
2,4-DDD	ND	ND	1.39	1.49	0.24	7.13
4,4-DDD	ND	0.74	1.85	1.27	0.42	13.46
2,4-DDE	ND	ND	0.11	ND	ND	0.26
4,4-DDE	ND	ND	4.00	1.98	ND	16.25
2,4-DDT	0.71	ND	0.04	ND	ND	ND
4,4-DDT	ND	ND	1.73	1.38	0.92	8.65
Aldrin	ND	ND	ND	ND	ND	0.30
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	0.30	0.44	0.08	0.22
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.34	1.70	0.54	0.35	0.38	ND
Cis-chlordane	ND	ND	0.14	ND	ND	1.99
g-Chlordane	ND	ND	0.33	ND	ND	3.61
Cis-nonachlor	0.37	ND	0.37	0.12	ND	3.69
Dieldrin	0.17	ND	0.22	ND	0.12	1.35
Dursban	ND	ND	0.39	ND	ND	0.89
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ND	ND	0.45	0.16	ND	1.79
Endrin	ND	ND	ND	ND	ND	0.96
Endrin aldehyde	ND	ND	0.14	0.09	ND	0.64
Endrin ketone	ND	ND	ND	ND	ND	0.46
Heptachlor	ND	ND	0.36	ND	ND	ND
Heptachlor epoxide	ND	0.20	ND	0.20	0.06	0.15
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	0.63
Oxychlordane	ND	ND	0.32	ND	ND	0.73
Trans-nonachlor	ND	ND	ND	ND	ND	1.46
Cl2(08)	ND	ND	2.67	ND	ND	ND
Cl3(18)	ND	ND	1.74	ND	ND	2.24
Cl3(28)	ND	ND	4.39	ND	ND	3.61
Cl4(44)	ND	ND	3.38	0.96	ND	4.51
Cl4(52)	ND	ND	5.84	2.36	0.08	9.38
Cl4(66)	ND	ND	3.01	1.27	0.20	5.23
Cl4(77)	ND	ND	0.61	0.38	ND	4.00
Cl5(101)	ND	ND	6.41	3.02	0.22	10.74
Cl5(105)	ND	ND	0.58	0.28	0.15	2.79
Cl5(110)	ND	ND	5.46	2.52	0.21	19.81
Cl5(118)	ND	ND	3.16	1.33	ND	12.50
Cl5(126)	ND	ND	8.22	2.70	ND	110.77
Cl6(128)	ND	ND	ND	ND	ND	0.48
Cl6(129)	ND	ND	0.54	0.46	ND	ND
Cl6(138)	0.35	0.48	6.02	2.53	ND	18.63
Cl6(153)	ND	ND	8.37	4.27	0.59	35.96
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	ND	0.52	2.44	1.17	0.40	14.12
Cl7(180)	ND	ND	4.00	1.79	0.34	13.71
Cl7(187)	0.29	0.63	2.20	1.20	0.18	9.29
Cl8(195)	ND	ND	0.39	0.20	ND	1.88
Cl9(206)	ND	ND	0.43	0.52	ND	3.15
Cl10(209)	ND	ND	0.25	0.35	ND	1.28
DDT	0.71	ND	1.77	1.38	0.92	8.65
DDD	ND	0.74	3.24	2.76	0.67	20.60
DDE	ND	ND	4.11	1.98	ND	16.51
Total DDTs	0.71	0.74	9.12	6.12	1.59	45.76
BHCs	1.34	1.70	0.84	0.78	0.46	0.22
Chlordanes	ND	0.20	1.15	0.20	0.06	7.93
Endosulfans	ND	ND	0.45	0.16	ND	1.79
PCBs	0.65	1.63	70.10	27.32	2.35	284.08
Other Chlorinated	51.57	57.01	3.47	0.11	8.24	8.69
Sum of 21 Congeners *	0.65	1.63	61.28	24.24	2.35	169.31

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT07	ORT07	ORT08	ORT08	ORT08	ORT09
FIELD_ID	LSJ98SORT07MA	LSJ98SORT07LA	LSJ98SORT08SA	LSJ98SORT08MA	LSJ98SORT08LA	LSJ98SORT09SA
BATCH_ID	98-336	98-336	98-076	98-076	98-076	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.31	ND	ND	ND	ND	0.93
1,2,4-Trichlorobenzene	ND	0.85	0.93	ND	ND	ND
1,2-Dichlorobenzene	ND	4.76	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	2.11	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	21.70	17.75	13.44	ND
Hexachlorobenzene	0.22	0.21	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	0.20	ND	0.14	12.54
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	0.24
Hexachloroethane	ND	ND	ND	ND	ND	ND
2,4-DDD	9.84	11.97	2.31	1.66	ND	1.17
4,4-DDD	9.45	9.91	2.32	1.89	ND	3.21
2,4-DDE	ND	ND	ND	ND	ND	0.35
4,4-DDE	7.52	9.83	4.54	2.31	ND	7.13
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	4.45	1.91	1.96	1.91	ND	3.93
Aldrin	0.27	0.26	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	0.24	0.31	ND	0.10	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.04	1.08	ND	0.45	0.28	2.68
Cis-chlordane	2.34	1.12	0.46	ND	ND	0.89
g-Chlordane	4.53	2.95	0.96	0.87	ND	2.01
Cis-nonachlor	3.06	3.11	0.79	0.43	ND	0.65
Dieldrin	2.36	1.94	0.89	0.81	ND	0.75
Dursban	1.87	1.49	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	0.58	ND	ND	2.81
Endosulfan sulfate	1.55	ND	0.72	0.28	ND	1.17
Endrin	2.12	1.83	ND	ND	ND	ND
Endrin aldehyde	0.86	1.29	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND	ND	ND
Heptachlor	0.16	0.42	0.11	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	4.45	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	0.66	0.92	0.42	ND	ND	0.39
Trans-nonachlor	1.29	0.57	0.11	ND	ND	0.39
Cl2(08)	1.87	2.08	2.31	1.98	0.39	63.03
Cl3(18)	1.74	3.17	2.21	1.75	ND	4.61
Cl3(28)	3.29	4.91	4.18	3.73	ND	3.86
Cl4(44)	5.02	8.02	4.43	3.43	ND	5.80
Cl4(52)	9.58	15.12	8.04	5.71	ND	9.05
Cl4(66)	5.74	8.50	2.80	ND	ND	4.45
Cl4(77)	1.01	1.39	0.70	0.98	ND	ND
Cl5(101)	10.50	16.36	7.66	4.51	ND	9.64
Cl5(105)	1.71	2.02	0.90	0.72	ND	1.11
Cl5(110)	11.54	19.85	8.31	4.48	ND	9.59
Cl5(118)	7.23	11.32	4.63	2.82	ND	7.18
Cl5(126)	4.96	2.57	ND	3.36	ND	9.38
Cl6(128)	0.80	1.30	1.21	ND	ND	1.68
Cl6(129)	0.88	0.82	ND	0.70	0.16	0.94
Cl6(138)	13.88	18.77	9.64	5.76	0.69	9.54
Cl6(153)	17.54	30.77	13.08	5.58	ND	12.05
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	6.41	6.60	2.96	2.34	ND	3.85
Cl7(180)	7.00	12.17	5.49	2.26	ND	5.00
Cl7(187)	5.13	7.55	2.88	1.41	ND	5.93
Cl8(195)	1.19	1.57	0.58	0.24	ND	0.53
Cl9(206)	ND	2.29	0.48	0.17	ND	1.06
Cl10(209)	ND	1.07	0.27	0.84	ND	1.31
DDT	4.45	1.91	1.96	1.91	ND	3.93
DDD	19.29	21.88	4.63	3.55	ND	4.38
DDE	7.52	9.83	4.54	2.31	ND	7.48
Total DDTs	31.26	33.62	11.12	7.76	ND	15.79
BHCs	1.28	1.39	ND	0.55	0.28	2.68
Chlordanes	8.99	5.98	2.07	0.87	ND	3.68
Endosulfans	1.55	ND	1.30	0.28	ND	3.99
PCBs	117.02	178.21	82.74	52.77	1.24	169.56
Other Chlorinated	0.31	5.61	24.94	17.75	13.58	13.71
Sum of 21 Congeners *	111.05	174.25	82.04	48.43	1.24	160.19

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT09	ORT09	ORT10	ORT10	ORT10	ORT11
FIELD_ID	LSJ98SORT09MA	LSJ98SORT09LA	LSJ98SORT10SA	LSJ98SORT10MA	LSJ98SORT10LA	LSJ98SORT11SA
BATCH_ID	98-178	98-178	98-178	98-178	98-178	98-191
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.54	0.45	1.65	2.52	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	17.47	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	13.94	ND	11.73	86.33	45.69	53.04
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	14.04	4.39	12.84	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	0.56	0.66	0.34	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
2,4-DDD	0.78	ND	0.82	2.28	ND	0.89
4,4-DDD	2.93	0.89	2.79	5.87	ND	2.34
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	3.41	ND	3.20	5.51	ND	6.65
2,4-DDT	ND	ND	ND	ND	ND	1.11
4,4-DDT	ND	ND	2.67	5.22	1.56	ND
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	0.32
g-BHC	3.48	2.78	1.77	ND	1.81	ND
Cis-chlordane	0.42	ND	0.96	1.24	ND	0.75
g-Chlordane	1.41	ND	2.16	2.29	ND	1.68
Cis-nonachlor	0.48	ND	0.71	1.55	ND	0.80
Dieldrin	0.82	0.22	0.65	ND	ND	1.00
Dursban	ND	ND	ND	0.52	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	2.79	0.40	1.80	3.63	0.32	1.55
Endosulfan sulfate	1.02	ND	0.58	1.48	ND	1.07
Endrin	ND	ND	ND	0.67	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	ND	0.40	ND
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	ND	ND	ND	0.57	ND	ND
Trans-nonachlor	0.18	ND	0.55	0.60	ND	0.26
Cl2(08)	ND	ND	118.80	118.73	18.62	ND
Cl3(18)	3.86	0.63	6.72	13.92	0.69	2.98
Cl3(28)	3.77	ND	6.76	12.22	ND	4.89
Cl4(44)	5.62	ND	7.89	19.87	ND	6.73
Cl4(52)	8.91	ND	16.13	42.91	ND	9.21
Cl4(66)	8.57	ND	7.92	17.22	ND	5.43
Cl4(77)	ND	ND	ND	ND	ND	ND
Cl5(101)	7.67	ND	10.43	21.65	ND	8.02
Cl5(105)	0.64	ND	0.46	1.14	ND	1.04
Cl5(110)	7.78	ND	6.08	16.95	ND	9.24
Cl5(118)	5.69	ND	4.90	14.15	ND	7.02
Cl5(126)	ND	ND	1.45	2.77	1.03	ND
Cl6(128)	1.56	0.60	0.80	2.20	0.79	1.98
Cl6(129)	ND	ND	0.82	1.37	2.30	ND
Cl6(138)	5.54	0.68	6.03	14.02	1.01	ND
Cl6(153)	8.93	ND	9.26	28.78	ND	10.44
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	2.56	0.67	3.20	7.22	0.85	2.58
Cl7(180)	3.07	ND	3.43	10.00	0.14	4.10
Cl7(187)	4.50	0.69	3.12	8.54	0.96	5.24
Cl8(195)	0.40	ND	0.54	1.39	0.30	0.50
Cl9(206)	0.94	ND	0.74	2.28	ND	1.13
Cl10(209)	0.40	ND	0.84	1.33	ND	0.50
DDT	ND	ND	2.67	5.22	1.56	1.11
DDD	3.71	0.89	3.60	8.15	ND	3.23
DDE	3.41	ND	3.20	5.51	ND	6.65
Total DDTs	7.12	0.89	9.47	18.88	1.56	10.99
BHCs	3.48	2.78	1.77	ND	1.81	0.32
Chlordanes	2.02	ND	3.67	4.70	ND	2.68
Endosulfans	3.81	0.40	2.38	5.11	0.32	2.61
PCBs	80.39	3.28	216.34	358.64	26.67	81.03
Other Chlorinated	28.53	4.84	26.78	106.98	46.03	53.04
Sum of 21 Congeners *	80.39	3.28	214.88	355.87	25.65	81.03

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT11	ORT11	ORT12	ORT12	ORT12	ORT13
FIELD_ID	LSJ98SORT11MA	LSJ98SORT11LA	LSJ98SORT12SA	LSJ98SORT12MA	LSJ98SORT12LA	LSJ98SORT13SA
BATCH_ID	98-191	98-191	98-191	98-191	98-191	98-178
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.58	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	35.76	28.18	ND	ND
1,3-Dichlorobenzene	ND	ND	7.69	ND	ND	ND
1,4-Dichlorobenzene	52.14	35.28	69.66	59.45	18.00	67.14
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	0.63	ND	ND
Hexachloroethane	ND	ND	0.30	ND	ND	0.23
2,4-DDD	1.30	ND	0.73	3.34	ND	1.98
4,4-DDD	4.68	ND	5.44	6.68	ND	4.46
2,4-DDE	0.83	ND	ND	ND	ND	ND
4,4-DDE	15.77	ND	5.21	7.86	0.28	7.92
2,4-DDT	1.51	ND	1.02	1.82	ND	ND
4,4-DDT	4.58	ND	3.43	ND	ND	6.44
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	0.50	0.57	ND	ND
g-BHC	ND	1.80	ND	ND	1.55	ND
Cis-chlordane	0.48	ND	1.48	1.87	ND	1.70
g-Chlordane	1.39	ND	2.92	3.29	ND	2.75
Cis-nonachlor	0.71	ND	1.89	2.64	ND	1.85
Dieldrin	ND	ND	1.71	1.72	ND	ND
Dursban	ND	ND	0.93	0.88	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	3.07	ND	2.71	4.02	ND	3.12
Endosulfan sulfate	2.06	0.24	1.00	2.29	0.25	1.31
Endrin	ND	ND	0.32	0.46	ND	0.46
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	0.54	ND	ND	0.45	ND
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	0.26	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	ND	0.22	ND	ND	ND	ND
Oxychlordane	ND	ND	ND	ND	ND	ND
Trans-nonachlor	ND	ND	0.53	0.52	ND	0.76
Cl2(08)	ND	ND	4.08	ND	ND	34.64
Cl3(18)	3.93	ND	5.03	6.84	ND	7.41
Cl3(28)	4.73	ND	8.25	10.47	1.35	17.00
Cl4(44)	7.79	ND	8.64	12.91	ND	11.50
Cl4(52)	13.43	ND	15.97	27.45	ND	18.21
Cl4(66)	5.96	ND	8.69	13.15	ND	11.09
Cl4(77)	ND	ND	ND	1.84	ND	ND
Cl5(101)	14.27	ND	10.73	18.91	ND	15.50
Cl5(105)	1.15	ND	1.46	1.82	ND	1.86
Cl5(110)	15.21	ND	12.40	19.29	ND	16.71
Cl5(118)	8.31	ND	10.52	19.82	ND	12.10
Cl5(126)	ND	ND	6.52	ND	ND	3.49
Cl6(128)	2.30	ND	1.57	1.82	ND	2.75
Cl6(129)	ND	ND	2.67	1.93	ND	1.86
Cl6(138)	17.04	ND	12.02	12.20	ND	15.75
Cl6(153)	20.56	ND	15.86	30.71	ND	21.36
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	6.24	ND	6.67	7.95	ND	6.73
Cl7(180)	8.93	0.10	6.24	13.18	ND	8.88
Cl7(187)	9.08	0.96	6.52	10.30	1.35	8.56
Cl8(195)	0.79	0.20	0.70	2.55	0.45	1.36
Cl9(206)	1.97	ND	1.54	6.55	ND	1.78
Cl10(209)	3.18	0.31	0.68	1.46	0.45	1.23
DDT	6.08	ND	4.45	1.82	ND	6.44
DDD	5.98	ND	6.17	10.02	ND	6.44
DDE	16.61	ND	5.21	7.86	0.28	7.92
Total DDTs	28.67	ND	15.83	19.70	0.28	20.80
BHCs	ND	1.80	0.50	0.57	1.55	ND
Chlordanes	1.87	0.26	4.93	5.69	ND	5.21
Endosulfans	5.13	0.24	3.72	6.30	0.25	4.43
PCBs	144.87	1.58	146.76	221.15	3.60	219.78
Other Chlorinated	52.72	35.28	113.42	88.27	18.00	67.38
Sum of 21 Congeners *	144.87	1.58	140.24	219.31	3.60	216.28

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT13	ORT13	ORT14	ORT14	ORT14	ORT15
FIELD_ID	LSJ98SORT13MA	LSJ98SORT13LA	LSJ98SORT14SA	LSJ98SORT14MA	LSJ98SORT14LA	LSJ98SORT15SA
BATCH_ID	98-178	98-191	98-337	98-336	98-336	98-076
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	0.23	ND	ND	ND
1,2-Dichlorobenzene	ND	26.33	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	2.15	ND	ND	ND
1,4-Dichlorobenzene	59.71	25.50	ND	ND	ND	74.30
Hexachlorobenzene	ND	ND	ND	0.12	ND	ND
Hexachlorobutadiene	ND	2.65	0.15	0.14	0.20	ND
Hexachlorocyclopentadiene	ND	0.19	ND	ND	ND	ND
Hexachloroethane	ND	0.06	0.06	ND	ND	ND
2,4-DDD	2.73	ND	0.86	ND	ND	4.70
4,4-DDD	7.07	ND	1.13	0.49	0.55	5.96
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	18.00	0.22	0.81	0.30	ND	6.13
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	5.71	ND	1.75	ND	ND	6.06
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	1.86	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	5.20	0.97	0.48	ND	ND	ND
Cis-chlordane	1.01	ND	ND	ND	ND	4.06
g-Chlordane	1.46	ND	ND	ND	ND	5.60
Cis-nonachlor	1.93	ND	ND	ND	ND	3.18
Dieldrin	1.17	0.21	ND	ND	ND	2.57
Dursban	ND	0.44	0.22	ND	ND	2.14
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	4.24	0.25	ND	ND	ND	ND
Endosulfan sulfate	3.03	0.47	ND	ND	ND	0.89
Endrin	ND	ND	0.20	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	0.64	ND	ND	ND	ND
Heptachlor	ND	ND	0.19	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	3.77
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	ND	ND	ND	ND	ND	ND
Trans-nonachlor	0.48	ND	ND	ND	ND	2.20
Cl2(08)	ND	ND	2.49	ND	ND	2.78
Cl3(18)	6.81	1.04	0.47	0.34	0.38	5.95
Cl3(28)	10.04	1.16	0.72	ND	ND	9.28
Cl4(44)	14.32	ND	0.30	ND	ND	8.50
Cl4(52)	26.38	ND	0.45	0.34	ND	15.00
Cl4(66)	8.33	ND	0.29	ND	ND	9.95
Cl4(77)	ND	ND	0.17	ND	ND	33.45
Cl5(101)	24.93	ND	0.65	0.44	0.28	9.13
Cl5(105)	1.83	ND	0.33	ND	ND	3.15
Cl5(110)	24.71	ND	0.64	ND	ND	ND
Cl5(118)	15.00	ND	0.31	ND	ND	9.62
Cl5(126)	2.34	ND	3.70	ND	ND	9.46
Cl6(128)	2.80	1.45	ND	ND	ND	1.26
Cl6(129)	2.30	ND	0.74	ND	ND	1.05
Cl6(138)	23.14	ND	1.67	0.80	0.60	14.64
Cl6(153)	33.86	ND	0.81	ND	ND	16.31
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	8.37	0.65	1.19	ND	0.68	7.35
Cl7(180)	13.26	ND	0.93	ND	ND	7.25
Cl7(187)	10.99	2.02	0.50	0.46	ND	3.48
Cl8(195)	1.34	ND	ND	ND	ND	1.05
Cl9(206)	1.73	ND	0.89	ND	0.13	1.93
Cl10(209)	2.03	0.26	0.26	ND	ND	0.70
DDT	5.71	ND	1.75	ND	ND	6.06
DDD	9.80	ND	1.98	0.49	0.55	10.67
DDE	18.00	0.22	0.81	0.30	ND	6.13
Total DDTs	33.51	0.22	4.54	0.79	0.55	22.86
BHCs	5.20	0.97	0.48	1.86	ND	ND
Chlordanes	2.95	ND	0.19	ND	ND	11.86
Endosulfans	7.27	0.72	ND	ND	ND	0.89
PCBs	234.51	6.57	17.52	2.38	2.07	171.31
Other Chlorinated	59.71	54.73	2.60	0.14	0.20	74.30
Sum of 21 Congeners *	232.17	6.57	13.64	2.38	2.07	128.39

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT15	ORT15	ORT16	ORT16	ORT16	ORT18
FIELD_ID	LSJ98SORT15MA	LSJ98SORT15LA	LSJ98SORT16SA	LSJ98SORT16MA	LSJ98SORT16LA	LSJ98SORT18SA
BATCH_ID	98-076	98-076	98-337	98-336	98-336	98-337
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2.59	2.14	0.35	ND	ND	0.18
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.16	3.98	3.43	ND	3.33	3.16
1,4-Dichlorobenzene	42.59	33.96	ND	ND	2.42	ND
Hexachlorobenzene	ND	ND	ND	0.56	ND	ND
Hexachlorobutadiene	0.28	0.10	0.22	0.20	0.14	0.16
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	0.05	ND	ND	0.09
2,4-DDD	6.86	6.46	2.92	3.99	ND	1.48
4,4-DDD	5.12	6.53	3.76	4.52	0.98	1.83
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	9.18	ND	5.03	6.04	ND	3.03
2,4-DDT	ND	ND	0.34	ND	ND	0.22
4,4-DDT	3.88	4.54	3.75	0.64	ND	1.49
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	0.14	0.29	ND	0.18
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	ND	ND	1.04	ND	ND	0.81
Cis-chlordane	1.41	0.55	0.62	1.29	ND	0.94
g-Chlordane	3.98	1.67	1.45	2.58	ND	1.62
Cis-nonachlor	3.12	1.21	1.29	1.57	ND	0.70
Dieldrin	2.16	2.22	0.71	0.45	ND	0.23
Dursban	0.95	0.41	0.54	0.58	ND	0.66
Endosulfan I	ND	0.41	ND	ND	ND	ND
Endosulfan II	2.03	1.41	ND	ND	ND	ND
Endosulfan sulfate	1.88	0.99	0.67	1.17	ND	0.33
Endrin	0.66	0.71	ND	0.63	ND	0.47
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	ND	0.26	0.41	ND	ND
Heptachlor	0.22	ND	0.34	ND	ND	0.28
Heptachlor epoxide	ND	ND	ND	ND	ND	0.23
Methoxychlor	2.66	1.18	ND	ND	ND	ND
Mirex	ND	ND	ND	0.29	ND	ND
Oxychlordane	1.19	1.68	0.81	ND	ND	0.68
Trans-nonachlor	0.70	0.33	0.24	0.44	ND	0.38
Cl2(08)	5.86	5.15	4.78	5.43	8.78	2.64
Cl3(18)	13.09	14.84	6.14	7.38	0.42	4.69
Cl3(28)	18.89	12.09	9.22	15.41	ND	8.38
Cl4(44)	27.16	16.70	9.98	15.95	ND	8.88
Cl4(52)	52.96	48.46	15.33	27.97	ND	14.67
Cl4(66)	22.84	13.96	9.81	19.32	ND	8.45
Cl4(77)	1.90	2.09	1.28	1.74	0.53	0.55
Cl5(101)	23.70	13.96	10.48	20.81	0.28	11.21
Cl5(105)	3.26	1.18	1.38	2.93	ND	0.91
Cl5(110)	26.75	9.44	10.88	13.94	ND	5.50
Cl5(118)	19.48	ND	7.63	13.39	ND	3.77
Cl5(126)	4.19	2.34	10.75	24.13	ND	78.74
Cl6(128)	2.94	1.16	0.32	1.00	ND	0.17
Cl6(129)	0.82	0.58	0.74	ND	ND	0.16
Cl6(138)	21.82	11.72	9.73	12.20	ND	4.64
Cl6(153)	53.64	35.06	14.39	18.07	ND	6.23
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	11.44	6.85	4.98	6.23	ND	2.48
Cl7(180)	16.36	10.90	6.42	8.03	ND	2.57
Cl7(187)	9.43	6.22	3.97	5.81	0.35	1.65
Cl8(195)	1.99	1.38	0.75	1.24	ND	0.34
Cl9(206)	2.62	1.77	1.07	1.62	ND	0.53
Cl10(209)	1.31	2.06	0.37	0.90	ND	0.51
DDT	3.88	4.54	4.09	0.64	ND	1.71
DDD	11.97	12.99	6.68	8.51	0.98	3.31
DDE	9.18	ND	5.03	6.04	ND	3.03
Total DDTs	25.04	17.53	15.80	15.19	0.98	8.05
BHCs	ND	ND	1.18	0.29	ND	0.99
Chlordanes	7.49	4.23	3.47	4.30	ND	4.13
Endosulfans	3.91	2.81	0.67	1.17	ND	0.33
PCBs	342.46	217.90	140.39	223.51	10.36	167.67
Other Chlorinated	50.62	40.17	4.05	0.20	5.89	3.59
Sum of 21 Congeners *	336.36	213.47	128.37	197.64	9.82	88.38

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT18	ORT18	ORT19	ORT19	ORT20	ORT20
FIELD_ID	LSJ98SORT18MA	LSJ98SORT18LA	LSJ98SORT19B	LSJ98SORT19A	LSJ98SORT20SA	LSJ98SORT20MA
BATCH_ID	98-336	98-336	98-356	98-356	98-337	98-336
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	0.66	10.42	0.18	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.18	4.08	ND	ND	2.69	5.21
1,4-Dichlorobenzene	ND	2.64	ND	ND	ND	2.92
Hexachlorobenzene	0.47	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.14	ND	ND	ND	0.16	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	0.08	ND
2,4-DDD	5.14	ND	2.82	9.25	0.34	ND
4,4-DDD	5.95	0.72	2.32	2.13	0.79	0.62
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	8.56	ND	2.42	1.90	0.56	0.29
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	1.49	ND	0.78	1.70	1.24	ND
Aldrin	ND	ND	0.09	0.26	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.59	ND	ND	ND	0.51	ND
Cis-chlordane	0.99	ND	0.79	0.79	0.12	ND
g-Chlordane	2.18	ND	1.10	1.09	0.32	ND
Cis-nonachlor	2.14	ND	0.94	0.88	0.14	ND
Dieldrin	1.36	ND	ND	ND	0.06	ND
Dursban	0.55	ND	1.32	1.33	0.34	ND
Endosulfan I	ND	ND	ND	0.01	ND	ND
Endosulfan II	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	1.22	ND	0.47	2.00	0.07	ND
Endrin	0.79	ND	0.65	ND	ND	ND
Endrin aldehyde	ND	ND	0.16	2.16	ND	ND
Endrin ketone	ND	ND	0.47	0.37	ND	ND
Heptachlor	0.25	ND	ND	ND	0.10	ND
Heptachlor epoxide	ND	ND	ND	0.05	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	0.22	ND	0.47	0.40	ND	ND
Oxychlordane	ND	ND	ND	ND	ND	ND
Trans-nonachlor	0.43	ND	0.70	0.70	ND	ND
Cl2(08)	4.84	7.58	1.81	ND	2.21	3.72
Cl3(18)	6.37	ND	3.09	1.36	0.78	0.45
Cl3(28)	11.57	ND	5.24	3.30	4.00	ND
Cl4(44)	13.29	ND	5.72	2.76	0.46	ND
Cl4(52)	22.03	ND	10.56	5.49	0.84	0.38
Cl4(66)	12.66	ND	6.46	3.39	0.56	ND
Cl4(77)	2.09	0.32	1.83	1.49	0.16	ND
Cl5(101)	16.20	0.34	5.54	6.97	0.91	0.39
Cl5(105)	2.59	ND	1.32	0.91	0.48	ND
Cl5(110)	18.15	ND	6.38	4.49	0.84	ND
Cl5(118)	13.46	ND	4.68	5.09	0.64	ND
Cl5(126)	8.89	ND	4.62	4.16	ND	ND
Cl6(128)	2.72	ND	ND	0.21	ND	ND
Cl6(129)	1.02	ND	0.71	0.74	2.41	ND
Cl6(138)	13.70	ND	4.91	19.70	1.89	ND
Cl6(153)	20.49	ND	8.35	89.55	0.82	ND
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	ND	ND	5.27	38.96	0.89	1.02
Cl7(180)	7.83	ND	3.61	95.52	0.61	ND
Cl7(187)	7.27	0.41	2.35	37.46	0.41	0.53
Cl8(195)	1.09	ND	0.64	8.58	ND	ND
Cl9(206)	2.00	ND	0.62	4.00	ND	ND
Cl10(209)	0.51	ND	ND	0.44	ND	ND
DDT	1.49	ND	0.78	1.70	1.24	ND
DDD	11.09	0.72	5.14	11.39	1.13	0.62
DDE	8.56	ND	2.42	1.90	0.56	0.29
Total DDTs	21.14	0.72	8.34	14.99	2.93	0.91
BHCs	1.59	ND	ND	ND	0.51	ND
Chlordanes	3.85	ND	2.59	2.64	0.54	ND
Endosulfans	1.22	ND	0.47	2.01	0.07	ND
PCBs	188.75	8.66	83.72	334.59	18.90	6.48
Other Chlorinated	3.31	6.71	0.66	10.42	3.12	8.13
Sum of 21 Congeners *	177.78	8.33	77.26	328.93	18.75	6.48

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT20	ORT21	ORT21	ORT21	ORT22	ORT22
FIELD_ID	LSJ98SORT20LA	LSJ98SORT21SA	LSJ98SORT21MA	LSJ98SORT21LA	LSJ98SORT22B	LSJ98SORT22A
BATCH_ID	98-336	98-119	98-119	98-119	98-356	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	0.89	ND	1.21	2.60
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.61	6.89	9.78	7.13	ND	3.41
1,4-Dichlorobenzene	ND	19.88	27.50	9.73	ND	3.78
Hexachlorobenzene	0.19	3.25	3.35	1.21	ND	ND
Hexachlorobutadiene	0.23	ND	2.08	0.70	ND	0.13
Hexachlorocyclopentadiene	ND	0.28	0.48	0.18	ND	ND
Hexachloroethane	ND	ND	ND	1.07	ND	ND
2,4-DDD	ND	1.53	1.50	0.91	3.13	3.98
4,4-DDD	0.81	2.84	4.55	1.14	4.06	3.70
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	ND	5.53	7.05	0.58	5.33	5.37
2,4-DDT	ND	1.28	0.64	3.44	ND	ND
4,4-DDT	ND	2.46	3.00	0.93	1.16	1.21
Aldrin	ND	ND	ND	0.51	0.42	0.70
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	0.09	0.09
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	ND	1.35	2.32	0.83	1.03	ND
Cis-chlordane	ND	0.82	1.43	ND	2.06	2.42
g-Chlordane	ND	2.31	4.69	ND	2.97	3.33
Cis-nonachlor	ND	1.10	1.41	0.24	2.70	2.69
Dieldrin	ND	1.04	0.88	ND	ND	0.76
Dursban	ND	ND	0.35	ND	1.35	2.35
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	1.26	1.91	ND	ND	ND
Endosulfan sulfate	ND	ND	ND	ND	1.08	1.20
Endrin	ND	ND	ND	ND	ND	0.83
Endrin aldehyde	ND	ND	ND	ND	0.31	0.34
Endrin ketone	ND	1.02	1.57	1.46	0.17	0.39
Heptachlor	ND	ND	ND	ND	ND	0.16
Heptachlor epoxide	ND	0.23	0.21	0.20	0.09	0.15
Methoxychlor	ND	ND	ND	1.50	ND	ND
Mirex	0.21	ND	0.28	0.41	0.32	0.36
Oxychlordane	ND	0.51	0.84	0.13	0.72	0.77
Trans-nonachlor	ND	0.46	0.47	ND	1.32	1.78
Cl2(08)	ND	ND	4.79	ND	ND	4.15
Cl3(18)	0.70	6.96	21.53	0.66	7.88	6.59
Cl3(28)	0.54	10.19	21.25	3.21	11.91	12.39
Cl4(44)	ND	12.50	31.94	1.42	12.87	14.02
Cl4(52)	ND	21.88	58.19	2.42	33.19	26.85
Cl4(66)	ND	11.56	23.75	0.74	14.04	15.65
Cl4(77)	ND	ND	2.55	ND	2.06	2.62
Cl5(101)	0.41	11.13	22.22	1.08	13.94	14.13
Cl5(105)	ND	0.88	1.36	ND	3.02	3.08
Cl5(110)	ND	9.67	16.32	1.08	15.75	16.32
Cl5(118)	ND	6.66	14.74	0.39	13.45	13.68
Cl5(126)	ND	ND	ND	ND	4.43	3.84
Cl6(128)	ND	1.13	1.09	ND	0.47	0.68
Cl6(129)	ND	ND	ND	ND	0.73	0.89
Cl6(138)	ND	5.76	12.16	0.67	13.56	13.79
Cl6(153)	ND	12.80	28.82	1.27	20.92	21.15
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	ND	2.44	6.18	0.89	6.48	9.49
Cl7(180)	ND	4.72	9.34	1.24	7.97	7.97
Cl7(187)	0.11	4.19	8.82	1.15	5.11	4.44
Cl8(195)	ND	0.35	0.99	ND	1.17	1.13
Cl9(206)	ND	0.80	1.28	0.09	1.84	1.87
Cl10(209)	0.19	ND	1.10	ND	0.76	0.52
DDT	ND	3.74	3.64	4.37	1.16	1.21
DDD	0.81	4.37	6.05	2.05	7.18	7.68
DDE	ND	5.53	7.05	0.58	5.33	5.37
Total DDTs	0.81	13.63	16.75	7.00	13.68	14.25
BHCs	ND	1.35	2.32	0.83	1.12	0.09
Chlordanes	ND	4.34	7.65	0.33	7.16	8.62
Endosulfans	ND	1.26	1.91	ND	1.08	1.20
PCBs	1.95	123.62	288.41	16.32	191.56	195.26
Other Chlorinated	3.84	27.05	40.73	18.80	1.21	9.93
Sum of 21 Congeners *	1.95	123.62	285.86	16.32	185.07	188.80

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT23	ORT23	ORT23	ORT24	ORT24	ORT24
FIELD_ID	LSJ98SORT23SA	LSJ98SORT23MA	LSJ98SORT23LA	LSJ98SORT24SA	LSJ98SORT24MA	LSJ98SORT24LA
BATCH_ID	98-119	98-119	98-119	98-119	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.79	0.62	ND	ND	ND	ND
1,2-Dichlorobenzene	8.69	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	12.06	9.27	ND	15.34	8.12	5.80
1,4-Dichlorobenzene	17.71	12.71	ND	25.34	12.96	6.44
Hexachlorobenzene	9.31	2.97	0.59	2.51	1.22	1.23
Hexachlorobutadiene	0.78	0.83	0.98	0.56	0.37	0.31
Hexachlorocyclopentadiene	ND	0.25	0.12	1.16	0.18	0.12
Hexachloroethane	0.22	0.11	ND	ND	ND	0.12
2,4-DDD	3.61	1.42	ND	1.78	0.47	0.70
4,4-DDD	2.57	2.19	ND	5.68	1.02	0.76
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	6.00	4.51	ND	11.46	1.44	ND
2,4-DDT	ND	ND	ND	2.54	1.23	2.12
4,4-DDT	2.62	2.74	0.71	5.50	1.38	0.69
Aldrin	ND	ND	0.42	ND	ND	ND
a-BHC	4.81	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.83	1.68	0.99	2.11	1.69	1.18
Cis-chlordane	0.95	ND	ND	3.38	ND	ND
g-Chlordane	4.29	1.04	ND	4.55	ND	ND
Cis-nonachlor	1.22	0.43	ND	2.84	ND	ND
Dieldrin	0.92	ND	ND	1.96	0.30	0.17
Dursban	ND	ND	ND	0.43	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	1.44	1.39	ND	2.37	0.25	ND
Endosulfan sulfate	1.34	0.97	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	1.78	2.23	0.61	1.74	ND	0.55
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	1.17
Mirex	ND	0.33	ND	0.16	0.25	0.28
Oxychlordane	0.47	ND	ND	0.56	ND	ND
Trans-nonachlor	0.51	ND	ND	1.77	ND	ND
Cl2(08)	2.06	2.94	ND	ND	ND	ND
Cl3(18)	7.31	4.56	ND	5.85	ND	ND
Cl3(28)	11.17	5.68	3.17	9.84	0.94	ND
Cl4(44)	13.47	6.73	ND	14.11	ND	ND
Cl4(52)	19.86	8.86	ND	22.05	ND	ND
Cl4(66)	11.83	4.62	ND	12.82	ND	ND
Cl4(77)	ND	ND	ND	ND	ND	ND
Cl5(101)	10.83	5.32	ND	14.11	ND	ND
Cl5(105)	1.94	0.70	ND	2.68	ND	ND
Cl5(110)	11.43	5.68	ND	16.83	0.28	ND
Cl5(118)	7.53	3.49	ND	10.76	ND	ND
Cl5(126)	ND	ND	ND	ND	1.11	ND
Cl6(128)	1.45	1.30	ND	1.50	ND	ND
Cl6(129)	ND	ND	ND	ND	1.28	ND
Cl6(138)	8.97	4.62	ND	13.54	0.47	ND
Cl6(153)	12.48	6.26	ND	20.00	0.49	ND
Cl6(169)	ND	0.38	ND	ND	ND	ND
Cl7(170)	3.43	2.57	0.30	6.76	0.67	0.47
Cl7(180)	4.62	2.81	ND	7.65	0.21	ND
Cl7(187)	5.00	3.32	ND	6.18	0.13	ND
Cl8(195)	0.31	0.41	ND	ND	ND	ND
Cl9(206)	0.60	0.80	ND	1.20	ND	ND
Cl10(209)	ND	0.20	ND	ND	ND	ND
DDT	2.62	2.74	0.71	8.04	2.60	2.81
DDD	6.18	3.61	ND	7.46	1.48	1.46
DDE	6.00	4.51	ND	11.46	1.44	ND
Total DDTs	14.81	10.86	0.71	26.96	5.52	4.26
BHCs	6.64	1.68	0.99	2.11	1.69	1.18
Chlordanes	6.22	1.04	ND	10.26	ND	ND
Endosulfans	2.78	2.37	ND	2.37	0.25	ND
PCBs	134.30	71.25	3.47	165.87	5.57	0.47
Other Chlorinated	40.25	23.78	1.11	42.40	21.63	12.79
Sum of 21 Congeners *	134.30	71.25	3.47	165.87	4.46	0.47

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT25	ORT25	ORT25	ORT26	ORT26	ORT26
FIELD_ID	LSJ98SORT25SA	LSJ98SORT25MA	LSJ98SORT25LA	LSJ98SORT26SA	LSJ98SORT26MA	LSJ98SORT26LA
BATCH_ID	98-120	98-120	98-120	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	0.63	1.58	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.81	4.89	5.40	10.50	10.54	8.62
1,4-Dichlorobenzene	12.19	13.37	7.10	17.69	14.68	11.76
Hexachlorobenzene	1.54	3.36	1.93	0.90	0.80	0.80
Hexachlorobutadiene	0.32	2.12	1.27	ND	0.11	0.42
Hexachlorocyclopentadiene	1.27	0.50	ND	ND	ND	ND
Hexachloroethane	0.11	ND	ND	ND	ND	ND
2,4-DDD	1.53	1.83	ND	1.33	0.61	ND
4,4-DDD	6.86	3.87	ND	5.15	1.58	ND
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	9.15	6.09	ND	8.60	2.52	ND
2,4-DDT	1.68	ND	ND	1.60	3.48	1.81
4,4-DDT	5.86	3.00	0.75	4.92	1.95	1.25
Aldrin	1.34	ND	0.46	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	2.28	2.16	1.12	1.58	1.09	1.08
Cis-chlordane	9.00	2.11	ND	3.41	ND	ND
g-Chlordane	13.92	4.38	ND	6.88	ND	ND
Cis-nonachlor	6.77	3.58	ND	3.97	ND	ND
Dieldrin	3.45	1.15	ND	1.56	ND	0.24
Dursban	7.90	ND	ND	0.87	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	4.88	2.14	ND	2.44	0.55	ND
Endosulfan sulfate	2.91	ND	0.59	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	0.16	ND	ND	ND	ND	ND
Endrin ketone	3.36	2.53	1.70	ND	ND	0.64
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.39	0.20	ND	ND	ND	ND
Methoxychlor	ND	ND	1.01	ND	ND	1.52
Mirex	0.39	0.29	0.52	0.22	0.26	0.24
Oxychlordane	0.81	0.81	ND	0.59	ND	ND
Trans-nonachlor	8.10	0.85	ND	1.86	ND	ND
Cl2(08)	ND	9.86	ND	4.79	ND	ND
Cl3(18)	16.84	21.20	ND	12.21	1.70	ND
Cl3(28)	25.06	27.39	ND	18.59	2.10	ND
Cl4(44)	35.06	38.48	0.52	26.92	1.82	ND
Cl4(52)	61.01	67.72	0.64	43.97	2.27	ND
Cl4(66)	34.30	34.02	ND	25.00	1.04	ND
Cl4(77)	3.39	2.06	0.54	1.97	0.52	ND
Cl5(101)	23.29	25.98	ND	19.74	0.75	ND
Cl5(105)	6.12	2.71	ND	4.04	ND	ND
Cl5(110)	24.19	21.86	ND	20.28	1.19	ND
Cl5(118)	23.51	21.74	ND	17.64	0.80	ND
Cl5(126)	ND	ND	ND	ND	ND	ND
Cl6(128)	3.45	2.64	ND	2.57	ND	ND
Cl6(129)	ND	ND	ND	ND	ND	ND
Cl6(138)	18.51	14.07	ND	14.86	0.95	0.28
Cl6(153)	29.46	36.40	ND	27.22	1.58	ND
Cl6(169)	0.26	ND	ND	0.37	ND	ND
Cl7(170)	19.86	9.03	0.69	11.46	1.65	ND
Cl7(180)	13.27	13.95	ND	11.43	0.52	ND
Cl7(187)	9.36	9.77	0.50	7.15	0.52	ND
Cl8(195)	1.64	0.99	ND	1.50	ND	ND
Cl9(206)	2.69	1.47	0.27	2.11	0.07	ND
Cl10(209)	2.28	0.79	ND	1.82	0.50	ND
DDT	7.54	3.00	0.75	6.51	5.43	3.06
DDD	8.39	5.70	ND	6.49	2.19	ND
DDE	9.15	6.09	ND	8.60	2.52	ND
Total DDTs	25.08	14.79	0.75	21.60	10.14	3.06
BHCs	2.28	2.16	1.12	1.58	1.09	1.08
Chlordanes	32.23	8.36	ND	12.75	ND	ND
Endosulfans	7.78	2.14	0.59	2.44	0.55	ND
PCBs	353.57	362.12	3.16	275.66	18.00	0.28
Other Chlorinated	19.69	20.88	14.40	29.77	25.34	20.80
Sum of 21 Congeners *	350.18	360.06	2.62	273.68	17.48	0.28

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT27	ORT27	ORT27	ORT28	ORT28	ORT28
FIELD_ID	LSJ98SORT27SA	LSJ98SORT27MA	LSJ98SORT27LA	LSJ98SORT28SA	LSJ98SORT28MA	LSJ98SORT28LA
BATCH_ID	98-076	98-076	98-076	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	0.64	ND
1,2,4-Trichlorobenzene	1.49	1.35	0.29	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	2.35	ND	ND	ND
1,3-Dichlorobenzene	3.92	2.52	5.12	5.36	6.29	ND
1,4-Dichlorobenzene	29.88	38.13	ND	5.96	10.06	ND
Hexachlorobenzene	ND	ND	0.44	3.46	2.11	0.61
Hexachlorobutadiene	0.20	0.09	0.13	0.27	0.46	0.38
Hexachlorocyclopentadiene	ND	ND	ND	1.22	ND	0.18
Hexachloroethane	ND	ND	ND	0.06	0.13	ND
2,4-DDD	4.01	4.11	0.36	1.01	1.21	0.53
4,4-DDD	3.44	3.32	0.61	4.70	3.81	ND
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	6.49	4.80	0.22	6.74	8.95	ND
2,4-DDT	ND	ND	ND	3.25	2.77	1.28
4,4-DDT	3.28	2.71	0.45	4.24	3.13	1.01
Aldrin	ND	ND	ND	ND	ND	0.85
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	0.08	ND	ND	ND
g-BHC	ND	0.71	ND	1.84	1.36	1.53
Cis-chlordane	3.98	1.95	0.27	3.08	0.83	ND
g-Chlordane	6.32	3.47	0.61	4.96	2.48	ND
Cis-nonachlor	4.34	3.25	0.34	2.83	1.26	ND
Dieldrin	2.44	1.97	0.24	2.48	0.96	0.23
Dursban	1.21	ND	0.24	0.61	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	1.49	0.96	ND	2.01	1.68	ND
Endosulfan sulfate	1.62	1.09	ND	ND	ND	ND
Endrin	0.31	0.41	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	1.52	ND	0.74
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.50	1.82	0.35	2.54	ND	ND
Methoxychlor	2.28	1.27	ND	ND	ND	1.19
Mirex	ND	ND	ND	0.21	0.22	0.34
Oxychlordane	1.46	ND	ND	ND	0.56	ND
Trans-nonachlor	1.59	0.69	0.12	2.00	0.53	ND
Cl2(08)	10.87	ND	2.13	1.95	2.31	ND
Cl3(18)	27.65	64.48	4.71	4.65	5.64	ND
Cl3(28)	42.24	48.23	4.21	7.89	8.95	ND
Cl4(44)	50.71	59.69	3.65	11.87	12.35	0.45
Cl4(52)	86.35	114.58	5.55	17.23	16.71	ND
Cl4(66)	45.76	47.19	2.79	10.82	10.81	ND
Cl4(77)	2.56	2.33	0.24	1.75	1.64	ND
Cl5(101)	30.47	22.19	1.36	9.46	9.80	ND
Cl5(105)	5.03	3.33	0.71	2.51	1.76	ND
Cl5(110)	30.56	20.76	1.04	10.85	10.72	ND
Cl5(118)	26.85	24.78	1.29	9.73	7.81	ND
Cl5(126)	22.13	2.91	0.47	ND	ND	ND
Cl6(128)	2.60	2.05	ND	1.50	1.29	ND
Cl6(129)	1.41	1.49	0.99	ND	ND	ND
Cl6(138)	24.44	15.54	0.99	9.62	8.32	0.33
Cl6(153)	43.98	37.39	0.90	14.52	11.47	ND
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	9.01	6.67	0.44	7.80	4.12	0.65
Cl7(180)	13.15	10.87	0.39	5.93	5.15	ND
Cl7(187)	6.50	5.51	ND	4.23	3.79	ND
Cl8(195)	1.87	1.22	0.05	0.72	0.47	ND
Cl9(206)	1.73	1.38	ND	2.27	0.74	ND
Cl10(209)	1.36	0.64	ND	1.03	0.81	ND
DDT	3.28	2.71	0.45	7.49	5.90	2.29
DDD	7.44	7.42	0.98	5.71	5.01	0.53
DDE	6.49	4.80	0.22	6.74	8.95	ND
Total DDTs	17.21	14.93	1.65	19.94	19.86	2.81
BHCs	ND	0.71	0.08	1.84	1.36	1.53
Chlordanes	13.84	7.93	1.36	12.59	4.41	ND
Endosulfans	3.11	2.04	ND	2.01	1.68	ND
PCBs	487.22	493.24	31.92	136.32	124.67	1.43
Other Chlorinated	35.50	42.09	7.89	12.87	17.58	0.55
Sum of 21 Congeners *	462.54	488.00	31.20	134.57	123.03	1.43

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT29	ORT29	ORT29	ORT30	ORT30	ORT30
FIELD_ID	LSJ98SORT29SA	LSJ98SORT29MA	LSJ98SORT29LA	LSJ98SORT30SA	LSJ98SORT30MA	LSJ98SORT30LA
BATCH_ID	98-076	98-076	98-076	98-191	98-191	98-191
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	0.09	0.19
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	11.70	15.70
1,3-Dichlorobenzene	ND	7.25	ND	ND	ND	ND
1,4-Dichlorobenzene	10.90	ND	13.45	15.85	14.30	20.91
Hexachlorobenzene	0.92	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	0.21	3.14	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	0.04	0.07
2,4-DDD	0.51	0.49	ND	ND	ND	ND
4,4-DDD	0.67	0.40	ND	0.23	ND	ND
2,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDE	0.26	ND	ND	0.70	ND	ND
2,4-DDT	ND	ND	ND	ND	ND	ND
4,4-DDT	0.83	ND	0.69	ND	ND	ND
Aldrin	ND	ND	ND	0.64	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	ND	0.22
g-BHC	0.27	ND	0.28	0.40	0.43	0.21
Cis-chlordane	0.38	ND	ND	ND	ND	ND
g-Chlordane	1.22	ND	ND	ND	ND	ND
Cis-nonachlor	0.57	ND	0.19	ND	ND	ND
Dieldrin	0.31	0.30	0.34	0.20	0.09	0.25
Dursban	0.32	ND	ND	ND	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	0.32	0.20	ND
Endosulfan sulfate	ND	ND	ND	ND	0.95	0.14
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	0.21	ND	ND	ND	ND	0.23
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.54	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	ND	ND	ND	ND	ND	ND
Oxychlordane	ND	ND	ND	ND	ND	ND
Trans-nonachlor	0.14	ND	ND	ND	ND	ND
Cl2(08)	3.27	0.88	1.37	ND	ND	4.94
Cl3(18)	9.36	ND	ND	0.49	ND	0.88
Cl3(28)	7.78	1.01	1.67	ND	ND	ND
Cl4(44)	6.30	ND	ND	0.40	ND	ND
Cl4(52)	9.87	ND	ND	0.46	ND	ND
Cl4(66)	2.17	ND	ND	0.15	ND	ND
Cl4(77)	0.46	ND	ND	ND	ND	ND
Cl5(101)	2.58	ND	ND	0.34	ND	ND
Cl5(105)	1.04	ND	ND	ND	ND	ND
Cl5(110)	1.63	ND	ND	0.55	ND	ND
Cl5(118)	2.02	ND	ND	ND	0.26	ND
Cl5(126)	0.49	0.58	ND	ND	ND	ND
Cl6(128)	ND	ND	ND	ND	ND	0.57
Cl6(129)	1.80	1.13	1.29	ND	ND	ND
Cl6(138)	1.00	0.52	0.72	ND	0.19	ND
Cl6(153)	1.22	ND	ND	0.55	ND	ND
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	0.68	ND	ND	ND	ND	ND
Cl7(180)	0.49	ND	ND	0.27	ND	ND
Cl7(187)	0.27	0.21	ND	0.54	1.92	0.81
Cl8(195)	ND	ND	ND	ND	0.14	ND
Cl9(206)	ND	ND	ND	ND	ND	ND
Cl10(209)	ND	ND	ND	ND	ND	ND
DDT	0.83	ND	0.69	ND	ND	ND
DDD	1.19	0.89	ND	0.23	ND	ND
DDE	0.26	ND	ND	0.70	ND	ND
Total DDTs	2.28	0.89	0.69	0.93	ND	ND
BHCs	0.27	ND	0.28	0.40	0.43	0.44
Chlordanes	2.28	ND	ND	ND	ND	ND
Endosulfans	ND	ND	ND	0.32	1.15	0.14
PCBs	52.45	4.33	5.04	3.76	2.50	7.19
Other Chlorinated	10.90	7.25	13.67	18.98	26.12	36.88
Sum of 21 Congeners *	51.50	3.75	5.04	3.76	2.50	7.19

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT31	ORT31	ORT31	ORT32	ORT32	ORT32
FIELD_ID	LSJ98SORT31SA	LSJ98SORT31MA	LSJ98SORT31LA	LSJ98SORT32SA	LSJ98SORT32MA	LSJ98SORT32LA
BATCH_ID	98-120	98-120	98-120	98-120	98-120	98-120
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	0.13	1.20	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	6.95	ND	2.82	7.64	3.64	2.90
1,4-Dichlorobenzene	12.12	ND	4.43	8.75	1.85	2.00
Hexachlorobenzene	1.49	0.46	0.23	1.03	0.54	0.40
Hexachlorobutadiene	0.30	0.30	ND	0.22	0.36	0.22
Hexachlorocyclopentadiene	0.38	0.16	ND	ND	0.19	0.11
Hexachloroethane	ND	ND	ND	ND	0.28	0.20
2,4-DDD	0.99	3.39	ND	3.87	ND	ND
4,4-DDD	5.67	1.82	ND	6.77	1.08	0.33
2,4-DDE	1.44	ND	ND	0.59	ND	ND
4,4-DDE	21.68	1.34	ND	10.93	ND	ND
2,4-DDT	1.47	3.27	ND	0.49	1.04	0.52
4,4-DDT	3.94	2.92	0.91	4.76	2.14	0.82
Aldrin	1.12	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	ND	ND	ND	ND	0.19	ND
g-BHC	2.67	1.15	0.97	2.02	1.14	0.59
Cis-chlordane	16.47	0.58	ND	7.28	ND	ND
g-Chlordane	66.47	2.17	0.29	15.80	ND	ND
Cis-nonachlor	6.89	0.41	ND	4.53	ND	ND
Dieldrin	1.09	0.76	ND	2.24	ND	ND
Dursban	0.64	ND	ND	0.37	ND	ND
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	2.04	2.79	ND	2.69	1.79	ND
Endosulfan sulfate	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	0.39	ND	ND	ND	ND	ND
Endrin ketone	ND	0.97	1.92	1.51	ND	0.28
Heptachlor	0.75	ND	ND	ND	ND	ND
Heptachlor epoxide	0.12	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	0.50	ND	ND	ND
Mirex	0.34	0.16	0.32	0.21	0.16	0.12
Oxychlordane	2.49	ND	ND	0.49	ND	ND
Trans-nonachlor	8.60	0.74	0.16	4.75	ND	ND
Cl2(08)	ND	ND	ND	ND	ND	ND
Cl3(18)	3.13	0.73	ND	2.09	ND	0.26
Cl3(28)	4.02	ND	ND	3.58	ND	ND
Cl4(44)	7.81	0.67	0.24	4.90	ND	ND
Cl4(52)	14.24	0.57	ND	8.44	0.19	ND
Cl4(66)	7.54	0.40	ND	5.55	ND	ND
Cl4(77)	1.07	1.39	ND	1.28	0.57	ND
Cl5(101)	21.29	0.59	ND	10.24	ND	ND
Cl5(105)	1.95	ND	0.31	2.18	ND	ND
Cl5(110)	10.84	1.53	ND	10.48	0.50	0.10
Cl5(118)	7.54	0.72	ND	6.22	ND	ND
Cl5(126)	ND	ND	ND	ND	ND	ND
Cl6(128)	2.08	ND	ND	1.33	ND	ND
Cl6(129)	ND	ND	ND	ND	ND	ND
Cl6(138)	11.20	1.24	0.21	10.82	ND	ND
Cl6(153)	18.56	1.14	0.87	16.67	0.45	ND
Cl6(169)	0.24	0.14	ND	0.21	0.23	ND
Cl7(170)	6.23	2.66	0.38	8.01	1.15	0.29
Cl7(180)	7.13	0.50	ND	6.31	0.11	ND
Cl7(187)	4.41	0.63	ND	4.94	0.35	0.16
Cl8(195)	0.93	ND	ND	0.94	ND	ND
Cl9(206)	1.56	ND	ND	2.64	0.86	ND
Cl10(209)	1.34	ND	ND	1.38	ND	ND
DDT	5.41	6.19	0.91	5.25	3.18	1.35
DDD	6.66	5.21	ND	10.64	1.08	0.33
DDE	23.11	1.34	ND	11.52	ND	ND
Total DDTs	35.18	12.74	0.91	27.41	4.26	1.68
BHCs	2.67	1.15	0.97	2.02	1.33	0.59
Chlordanes	94.90	3.49	0.45	28.32	ND	ND
Endosulfans	2.04	2.79	ND	2.69	1.79	ND
PCBs	133.10	12.92	2.01	108.22	4.39	0.81
Other Chlorinated	19.74	0.46	7.38	17.81	6.32	5.43
Sum of 21 Congeners *	132.03	11.53	2.01	106.94	3.82	0.81

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT33	ORT33	ORT34	ORT34	ORT35	ORT35
FIELD_ID	LSJ98SORT33B	LSJ98SORT33A	LSJ98SORT34SA	LSJ98SORT34MA	LSJ98SORT35SA	LSJ98SORT35MA
BATCH_ID	98-356	98-356	98-337	98-356	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.65	0.55	0.23	ND	0.50	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.43	1.99	2.68	ND	5.19	7.73
1,4-Dichlorobenzene	3.33	ND	ND	ND	11.60	20.84
Hexachlorobenzene	ND	ND	ND	ND	9.57	10.19
Hexachlorobutadiene	ND	0.11	0.20	0.14	0.70	0.70
Hexachlorocyclopentadiene	ND	ND	ND	ND	0.59	0.62
Hexachloroethane	ND	ND	0.13	ND	0.08	0.34
2,4-DDD	5.79	5.57	2.54	0.80	0.89	1.53
4,4-DDD	14.38	11.69	2.55	0.87	2.26	3.29
2,4-DDE	ND	ND	0.14	0.25	ND	ND
4,4-DDE	17.70	15.05	5.37	1.55	4.89	7.09
2,4-DDT	ND	ND	0.05	ND	1.33	0.54
4,4-DDT	28.36	4.34	2.25	1.19	2.35	3.10
Aldrin	1.44	1.41	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	0.24	0.21	0.09	0.12	ND	ND
d-BHC	0.11	0.10	ND	ND	ND	ND
g-BHC	ND	0.60	0.80	ND	1.54	1.65
Cis-chlordane	22.40	17.80	1.04	ND	1.32	2.18
g-Chlordane	36.00	28.90	1.78	ND	2.99	3.76
Cis-nonachlor	12.18	10.75	1.59	ND	1.24	2.56
Dieldrin	7.84	8.28	0.47	0.13	0.75	1.19
Dursban	19.87	23.54	0.64	ND	ND	0.72
Endosulfan I	0.08	0.07	ND	ND	ND	ND
Endosulfan II	ND	ND	ND	ND	1.41	2.05
Endosulfan sulfate	ND	ND	0.44	ND	0.92	1.17
Endrin	4.61	5.48	0.24	ND	ND	ND
Endrin aldehyde	3.92	0.64	0.19	0.09	ND	ND
Endrin ketone	6.36	6.56	0.62	0.27	1.24	1.15
Heptachlor	0.55	0.49	0.19	ND	ND	ND
Heptachlor epoxide	1.47	1.71	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	0.87	0.87	ND	ND	0.13	0.14
Oxychlordane	1.33	1.16	0.83	ND	0.38	0.42
Trans-nonachlor	19.33	19.15	0.44	ND	0.78	0.79
Cl2(08)	ND	ND	3.41	ND	2.31	3.61
Cl3(18)	0.83	0.76	5.30	0.44	3.52	5.41
Cl3(28)	1.67	1.72	9.28	ND	7.02	10.72
Cl4(44)	1.51	1.73	9.39	0.17	8.12	14.10
Cl4(52)	2.08	2.01	15.07	0.30	12.84	21.93
Cl4(66)	1.65	1.49	9.10	0.20	7.52	13.61
Cl4(77)	2.59	2.46	0.72	0.22	ND	1.63
Cl5(101)	3.12	2.89	8.57	0.58	7.83	12.29
Cl5(105)	1.09	1.22	1.31	0.34	1.58	2.65
Cl5(110)	6.54	5.93	8.51	0.47	7.58	13.66
Cl5(118)	5.33	5.13	6.33	0.10	5.91	11.40
Cl5(126)	10.64	11.05	9.64	2.04	ND	ND
Cl6(128)	0.25	0.17	ND	ND	0.94	1.51
Cl6(129)	1.40	1.51	0.42	ND	ND	ND
Cl6(138)	13.75	13.52	7.43	0.47	5.25	9.71
Cl6(153)	7.51	8.00	10.08	0.63	9.39	19.25
Cl6(169)	ND	ND	ND	ND	ND	0.09
Cl7(170)	15.33	20.49	3.57	ND	3.83	6.31
Cl7(180)	5.20	5.41	4.84	0.61	3.33	6.86
Cl7(187)	1.93	1.98	2.86	0.46	2.79	4.75
Cl8(195)	1.43	1.48	0.66	0.07	0.60	0.74
Cl9(206)	1.03	0.55	0.86	0.58	1.31	1.12
Cl10(209)	0.70	0.64	0.45	0.29	0.57	0.94
DDT	28.36	4.34	2.30	1.19	3.69	3.64
DDD	20.16	17.26	5.09	1.67	3.15	4.82
DDE	17.70	15.05	5.51	1.80	4.89	7.09
Total DDTs	66.23	36.66	12.90	4.67	11.73	15.54
BHCs	0.35	0.91	0.89	0.12	1.54	1.65
Chlordanes	81.08	69.21	4.29	ND	5.48	7.15
Endosulfans	0.08	0.07	0.44	ND	2.33	3.23
PCBs	85.58	90.15	117.80	7.96	92.26	162.28
Other Chlorinated	9.41	2.66	3.25	0.14	18.66	30.24
Sum of 21 Congeners *	72.35	76.65	107.43	5.70	92.26	160.65

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT35	ORT36	ORT36	ORT36	ORT37	ORT37
FIELD_ID	LSJ98SORT35LA	LSJ98SORT36SA	LSJ98SORT36MA	LSJ98SORT36LA	LSJ98SORT37SA	LSJ98SORT37MA
BATCH_ID	98-119	98-120	98-120	98-120	98-119	98-119
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.35	ND	ND	ND	ND	0.53
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	8.95	3.66	4.11	6.08	5.19
1,4-Dichlorobenzene	ND	6.68	4.17	14.58	19.01	14.19
Hexachlorobenzene	1.37	1.23	0.88	0.32	1.40	1.45
Hexachlorobutadiene	0.91	0.31	0.51	0.64	0.35	1.01
Hexachlorocyclopentadiene	0.12	0.79	0.38	0.25	0.51	0.19
Hexachloroethane	ND	0.01	ND	0.11	0.16	0.19
2,4-DDD	0.28	1.04	0.88	ND	1.05	ND
4,4-DDD	0.63	3.48	2.72	ND	5.26	1.04
2,4-DDE	ND	0.26	0.57	ND	ND	ND
4,4-DDE	ND	6.09	7.96	ND	7.64	1.16
2,4-DDT	ND	4.44	2.10	ND	ND	ND
4,4-DDT	1.40	3.88	2.38	1.49	3.32	2.28
Aldrin	ND	0.29	ND	0.44	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	ND	ND
d-BHC	0.20	ND	ND	ND	ND	ND
g-BHC	1.35	1.51	1.05	ND	1.69	0.83
Cis-chlordane	ND	1.79	ND	ND	5.27	0.72
g-Chlordane	ND	3.55	0.83	ND	7.32	1.12
Cis-nonachlor	ND	2.07	0.43	ND	4.53	0.54
Dieldrin	0.32	0.88	0.80	0.34	2.21	0.93
Dursban	ND	0.47	ND	0.80	1.26	ND
Endosulfan I	0.24	ND	ND	ND	ND	ND
Endosulfan II	0.16	1.41	0.93	ND	2.35	0.45
Endosulfan sulfate	0.50	ND	ND	ND	1.41	ND
Endrin	ND	ND	ND	ND	ND	ND
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	1.44	1.60	1.68	1.14	ND	0.87
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.16	0.28	0.68	ND	0.11	0.19
Methoxychlor	1.76	ND	ND	1.99	ND	ND
Mirex	0.40	0.25	0.19	0.32	ND	0.22
Oxychlordane	0.21	0.61	ND	ND	0.49	0.27
Trans-nonachlor	0.21	1.25	ND	ND	2.39	0.91
Cl2(08)	ND	ND	ND	ND	7.59	ND
Cl3(18)	0.17	3.76	2.42	0.58	24.51	2.84
Cl3(28)	ND	6.97	3.71	1.76	28.87	4.24
Cl4(44)	ND	9.51	5.01	ND	37.61	4.43
Cl4(52)	ND	14.49	6.73	ND	61.83	5.45
Cl4(66)	ND	8.58	4.08	ND	32.54	2.62
Cl4(77)	ND	0.77	0.58	ND	2.64	ND
Cl5(101)	0.15	7.95	4.01	ND	19.86	2.14
Cl5(105)	ND	1.51	0.65	ND	3.44	0.47
Cl5(110)	0.31	8.67	4.57	ND	18.77	2.20
Cl5(118)	ND	7.31	3.28	ND	17.04	1.79
Cl5(126)	ND	ND	ND	ND	ND	ND
Cl6(128)	ND	1.45	1.53	ND	1.65	0.56
Cl6(129)	ND	ND	ND	ND	ND	ND
Cl6(138)	0.23	6.68	3.56	0.42	11.56	1.75
Cl6(153)	0.44	11.15	5.40	0.32	24.32	3.04
Cl6(169)	ND	ND	ND	ND	0.17	ND
Cl7(170)	0.63	4.57	2.00	1.12	6.69	1.51
Cl7(180)	ND	5.07	2.65	ND	9.07	0.95
Cl7(187)	1.90	3.61	2.10	ND	5.68	1.24
Cl8(195)	ND	0.55	0.48	ND	0.98	ND
Cl9(206)	0.29	1.45	1.56	ND	1.35	0.79
Cl10(209)	ND	1.22	1.66	0.79	0.93	ND
DDT	1.40	8.32	4.49	1.49	3.32	2.28
DDD	0.91	4.52	3.60	ND	6.30	1.04
DDE	ND	6.35	8.52	ND	7.64	1.16
Total DDTs	2.31	19.19	16.61	1.49	17.27	4.47
BHCs	1.54	1.51	1.05	ND	1.69	0.83
Chlordanes	0.57	7.49	1.51	ND	15.59	3.21
Endosulfans	0.89	1.41	0.93	ND	3.75	0.45
PCBs	4.11	105.26	55.97	5.00	317.10	36.01
Other Chlorinated	1.38	16.74	8.72	19.69	26.11	21.30
Sum of 21 Congeners *	4.11	104.49	55.40	5.00	314.45	36.01

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT37	ORT38	ORT38	ORT39	ORT39	ORT39-1
FIELD_ID	LSJ98SORT37LA	LSJ98SORT38SA	LSJ98SORT38MA	LSJ98SORT39SA	LSJ98SORT39MA	LSJ98SORT391SA
BATCH_ID	98-119	98-191	98-191	98-076	98-076	98-337
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	1.28	ND	0.12
1,2-Dichlorobenzene	ND	20.33	ND	ND	ND	ND
1,3-Dichlorobenzene	5.23	ND	24.58	25.27	6.09	4.79
1,4-Dichlorobenzene	12.13	41.64	ND	ND	ND	ND
Hexachlorobenzene	3.22	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.21
Hexachlorocyclopentadiene	0.19	ND	ND	ND	ND	ND
Hexachloroethane	0.50	0.07	ND	ND	ND	0.08
2,4-DDD	0.53	0.97	ND	5.25	3.02	2.42
4,4-DDD	0.29	6.00	1.39	6.33	4.59	4.92
2,4-DDE	ND	1.17	ND	ND	0.82	ND
4,4-DDE	0.71	21.47	ND	14.63	7.36	8.74
2,4-DDT	ND	4.59	ND	ND	0.76	0.34
4,4-DDT	2.59	3.38	ND	4.22	2.02	3.18
Aldrin	ND	ND	ND	ND	ND	ND
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	ND	ND	ND	ND	0.13	0.15
d-BHC	ND	ND	ND	ND	ND	ND
g-BHC	1.26	ND	1.88	1.33	0.41	1.13
Cis-chlordane	0.62	1.90	ND	1.69	ND	0.68
g-Chlordane	1.57	2.97	ND	3.59	0.65	1.46
Cis-nonachlor	0.51	2.22	ND	2.99	0.46	1.59
Dieldrin	0.64	1.53	ND	0.88	0.39	0.39
Dursban	0.54	ND	ND	ND	0.29	0.49
Endosulfan I	ND	ND	ND	ND	ND	ND
Endosulfan II	0.27	1.81	0.60	0.41	ND	ND
Endosulfan sulfate	ND	2.09	0.98	ND	ND	0.36
Endrin	ND	0.23	ND	ND	ND	0.63
Endrin aldehyde	ND	ND	ND	ND	ND	ND
Endrin ketone	ND	ND	ND	1.14	0.36	0.30
Heptachlor	ND	ND	ND	0.08	ND	0.30
Heptachlor epoxide	0.21	ND	ND	ND	ND	0.13
Methoxychlor	ND	ND	ND	0.46	0.20	ND
Mirex	0.20	ND	ND	ND	ND	ND
Oxychlordane	0.27	ND	ND	1.48	ND	1.24
Trans-nonachlor	1.07	0.50	ND	0.63	ND	0.19
Cl2(08)	ND	2.90	ND	6.44	ND	4.15
Cl3(18)	1.75	5.89	ND	21.18	1.16	7.10
Cl3(28)	3.86	8.02	ND	23.33	2.11	12.67
Cl4(44)	1.92	11.08	ND	39.57	1.07	ND
Cl4(52)	3.32	16.39	0.66	60.11	2.10	18.19
Cl4(66)	1.77	9.67	ND	27.20	0.96	12.46
Cl4(77)	ND	ND	ND	3.01	0.44	1.07
Cl5(101)	1.45	11.48	ND	21.18	1.73	9.74
Cl5(105)	0.70	1.59	ND	3.05	0.88	2.12
Cl5(110)	1.60	12.76	1.04	22.11	1.82	11.45
Cl5(118)	1.65	11.68	ND	16.53	1.20	7.79
Cl5(126)	ND	ND	ND	2.91	1.44	ND
Cl6(128)	ND	1.18	ND	2.32	ND	0.18
Cl6(129)	ND	ND	ND	3.18	2.90	2.76
Cl6(138)	1.27	11.96	1.75	13.16	1.68	6.58
Cl6(153)	2.56	14.85	0.90	24.84	2.06	9.91
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	1.99	3.97	0.66	5.36	1.24	5.22
Cl7(180)	1.05	6.68	0.71	8.35	1.03	4.82
Cl7(187)	0.83	9.26	2.70	5.15	0.63	3.11
Cl8(195)	ND	0.64	ND	0.75	0.08	0.50
Cl9(206)	ND	1.34	ND	1.17	0.13	0.62
Cl10(209)	ND	1.27	ND	0.65	0.35	0.47
DDT	2.59	7.97	ND	4.22	2.78	3.53
DDD	0.82	6.97	1.39	11.58	7.61	7.34
DDE	0.71	22.64	ND	14.63	8.19	8.74
Total DDTs	4.11	37.58	1.39	30.43	18.58	19.61
BHCs	1.26	ND	1.88	1.33	0.53	1.28
Chlordanes	3.74	5.37	ND	7.47	0.65	4.01
Endosulfans	0.27	3.90	1.58	0.41	ND	0.36
PCBs	25.72	142.61	8.42	311.54	25.01	120.90
Other Chlorinated	18.05	62.03	24.58	26.55	6.09	5.21
Sum of 21 Congeners *	25.72	142.61	8.42	305.62	23.14	119.83

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT39-1	ORT39-1	ORT40	ORT40	ORT40	ORT41
FIELD_ID	LSJ98SORT391MA	LSJ98SORT391LA	LSJ98SORT40SA	LSJ98SORT40MA	LSJ98SORT40LA	LSJ98SORT41SA
BATCH_ID	98-336	98-336	98-191	98-191	98-191	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	0.19	ND	2.78	ND	0.53	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	53.62	39.62	16.64	ND
1,3-Dichlorobenzene	4.04	9.10	ND	26.58	19.06	2.76
1,4-Dichlorobenzene	8.15	13.50	66.52	ND	ND	2.67
Hexachlorobenzene	ND	0.32	ND	ND	ND	ND
Hexachlorobutadiene	0.19	ND	12.68	20.89	6.53	0.13
Hexachlorocyclopentadiene	ND	ND	ND	0.35	ND	ND
Hexachloroethane	ND	ND	0.05	0.05	0.07	0.09
2,4-DDD	6.68	1.04	0.71	4.30	ND	1.51
4,4-DDD	12.66	1.28	1.74	5.98	ND	2.25
2,4-DDE	ND	ND	ND	1.59	ND	0.19
4,4-DDE	29.75	0.61	3.84	17.44	0.20	4.51
2,4-DDT	ND	ND	1.14	ND	ND	ND
4,4-DDT	4.59	ND	ND	ND	1.87	1.31
Aldrin	ND	ND	ND	ND	ND	0.51
a-BHC	ND	ND	ND	ND	ND	ND
b-BHC	0.36	ND	ND	ND	ND	ND
d-BHC	ND	ND	0.43	0.43	ND	ND
g-BHC	ND	ND	2.19	1.07	2.40	0.66
Cis-chlordane	1.03	ND	2.83	ND	ND	0.38
g-Chlordane	2.19	ND	4.41	ND	ND	0.63
Cis-nonachlor	2.59	ND	1.34	ND	ND	0.76
Dieldrin	ND	ND	0.46	0.46	ND	0.30
Dursban	0.87	ND	1.38	ND	0.65	0.28
Endosulfan I	ND	ND	0.30	ND	ND	ND
Endosulfan II	ND	ND	0.76	1.05	0.40	ND
Endosulfan sulfate	1.47	ND	1.59	3.50	1.02	0.23
Endrin	0.66	ND	0.49	0.54	ND	0.51
Endrin aldehyde	ND	ND	0.24	ND	ND	0.14
Endrin ketone	0.32	0.48	1.36	2.85	1.84	0.27
Heptachlor	ND	ND	ND	ND	ND	0.10
Heptachlor epoxide	ND	0.04	ND	ND	ND	0.08
Methoxychlor	ND	ND	ND	ND	ND	ND
Mirex	0.70	ND	0.14	ND	ND	ND
Oxychlordane	1.58	ND	ND	ND	ND	0.17
Trans-nonachlor	0.43	ND	0.70	ND	ND	0.14
Cl2(08)	8.64	ND	ND	ND	ND	ND
Cl3(18)	23.88	0.71	8.04	1.28	ND	1.28
Cl3(28)	32.09	ND	12.90	ND	ND	1.75
Cl4(44)	42.99	ND	19.13	1.16	ND	2.01
Cl4(52)	59.85	0.20	28.70	0.83	ND	2.98
Cl4(66)	36.27	ND	17.39	ND	ND	1.98
Cl4(77)	4.18	ND	0.67	0.66	ND	0.85
Cl5(101)	25.67	ND	15.80	1.30	ND	2.31
Cl5(105)	4.39	ND	0.79	ND	ND	1.56
Cl5(110)	27.09	0.25	5.58	1.38	ND	3.25
Cl5(118)	20.51	ND	3.82	ND	ND	2.29
Cl5(126)	2.70	ND	ND	ND	ND	59.56
Cl6(128)	1.71	ND	ND	ND	3.93	ND
Cl6(129)	1.39	ND	ND	ND	ND	ND
Cl6(138)	18.10	ND	ND	ND	ND	4.81
Cl6(153)	25.32	ND	5.84	1.44	ND	3.34
Cl6(169)	ND	ND	ND	ND	ND	ND
Cl7(170)	6.35	ND	1.71	0.54	1.62	0.83
Cl7(180)	9.96	ND	2.28	0.50	ND	1.69
Cl7(187)	6.27	0.60	3.94	8.85	5.20	1.11
Cl8(195)	1.29	ND	0.22	ND	ND	0.17
Cl9(206)	1.38	ND	0.69	ND	ND	0.37
Cl10(209)	1.20	0.16	0.49	0.50	ND	0.29
DDT	4.59	ND	1.14	ND	1.87	1.31
DDD	19.34	2.32	2.45	10.28	ND	3.76
DDE	29.75	0.61	3.84	19.03	0.20	4.71
Total DDTs	53.68	2.93	7.43	29.31	2.07	9.78
BHCs	0.36	ND	2.62	1.51	2.40	0.66
Chlordanes	5.23	0.04	7.93	ND	ND	1.50
Endosulfans	1.47	ND	2.65	4.55	1.41	0.23
PCBs	361.22	1.90	127.99	18.43	10.75	92.42
Other Chlorinated	12.57	22.60	135.66	87.49	42.82	5.66
Sum of 21 Congeners *	354.34	1.90	127.32	17.77	10.75	32.01

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8081M - SURROGATE CORRECTED

SITE_ID	ORT41	ORT41
FIELD_ID	LSJ98SORT41MA	LSJ98SORT41LA
BATCH_ID	98-336	98-336
MATRIX	Sediment	Sediment
ANAL_MET	8081-MOD	8081-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.
1,2,4,5-Tetrachlorobenzene	ND	0.53
1,2,4-Trichlorobenzene	1.51	ND
1,2-Dichlorobenzene	ND	ND
1,3-Dichlorobenzene	2.96	6.33
1,4-Dichlorobenzene	ND	ND
Hexachlorobenzene	ND	ND
Hexachlorobutadiene	ND	0.24
Hexachlorocyclopentadiene	ND	ND
Hexachloroethane	ND	0.19
2,4-DDD	9.97	ND
4,4-DDD	10.86	ND
2,4-DDE	0.16	ND
4,4-DDE	27.67	ND
2,4-DDT	ND	ND
4,4-DDT	ND	ND
Aldrin	ND	ND
a-BHC	ND	ND
b-BHC	0.42	ND
d-BHC	ND	ND
g-BHC	5.68	3.53
Cis-chlordane	1.42	ND
g-Chlordane	2.89	ND
Cis-nonachlor	2.32	ND
Dieldrin	ND	ND
Dursban	1.57	ND
Endosulfan I	0.81	ND
Endosulfan II	2.03	ND
Endosulfan sulfate	0.53	ND
Endrin	ND	ND
Endrin aldehyde	0.51	ND
Endrin ketone	ND	ND
Heptachlor	0.84	ND
Heptachlor epoxide	ND	ND
Methoxychlor	2.87	ND
Mirex	ND	ND
Oxychlordane	2.05	ND
Trans-nonachlor	0.43	ND
Cl2(08)	1.66	ND
Cl3(18)	4.45	ND
Cl3(28)	6.54	ND
Cl4(44)	9.11	ND
Cl4(52)	13.29	ND
Cl4(66)	8.41	ND
Cl4(77)	1.66	ND
Cl5(101)	9.71	ND
Cl5(105)	3.00	ND
Cl5(110)	10.33	ND
Cl5(118)	6.92	ND
Cl5(126)	4.78	ND
Cl6(128)	0.81	ND
Cl6(129)	1.71	0.87
Cl6(138)	8.31	1.68
Cl6(153)	9.86	ND
Cl6(169)	ND	ND
Cl7(170)	3.24	ND
Cl7(180)	3.93	ND
Cl7(187)	2.16	ND
Cl8(195)	0.26	ND
Cl9(206)	0.69	ND
Cl10(209)	0.55	ND
DDT	ND	ND
DDD	20.82	ND
DDE	27.83	ND
Total DDTs	48.65	ND
BHCs	6.11	3.53
Chlordanes	7.64	ND
Endosulfans	3.37	ND
PCBs	111.36	2.55
Other Chlorinated	4.47	7.29
Sum of 21 Congeners *	104.93	2.55

* PCB77 and PCB126 not included in the sum of 21 congeners

Appendix D. Detailed PCB Congener Characterization Data (107 PCB Congeners)

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	CED01	CED01	CED01-1	CED02	CED03	CED03
FIELD_ID	LSJ98SCED01SA	LSJ98SCED01MA	LSJ99SCED011D	LSJ98SCED02SA	LSJ98SCED03SA	LSJ98SCED03MA
BATCH_ID	99-020	99-020	99-020	99-020	99-020	99-020
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	15.79	ND	ND	10.12	2.95	4.53
PCB3	41.02	ND	ND	48.25	7.96	5.90
PCB4/10	129.26	ND	5.16	93.35	23.07	26.07
PCB6	280.51	3.61	3.65	265.54	44.86	52.03
PCB7/9	17.42	ND	ND	11.43	2.90	3.30
PCB8/5	344.40	8.05	3.83	160.32	38.02	46.12
PCB12/13	86.28	ND	2.21	107.63	14.49	15.34
PCB16/32	538.84	13.64	15.32	353.54	71.32	85.66
PCB17	426.67	7.91	15.10	269.23	56.54	70.02
PCB18	1018.78	24.66	20.09	637.87	134.10	140.79
PCB19	68.45	ND	5.75	38.18	10.28	18.93
PCB21	ND	ND	ND	ND	ND	ND
PCB22	44.85	2.67	3.55	ND	1.88	4.10
PCB24/27	106.01	2.08	4.08	86.01	17.11	20.76
PCB25	240.38	2.36	13.08	266.60	47.36	70.76
PCB26	447.51	4.98	17.09	383.55	64.61	76.32
PCB28	1068.91	16.26	36.65	526.02	111.14	142.54
PCB29	ND	ND	ND	ND	ND	ND
PCB31	1083.38	16.84	29.75	704.55	132.82	150.39
PCB33/20	396.62	12.65	8.35	90.52	29.23	40.27
PCB40	174.22	7.50	9.15	57.74	16.17	23.60
PCB41/64/71	638.80	17.34	30.10	842.93	42.99	71.99
PCB42	429.75	6.46	19.39	248.60	47.64	67.18
PCB43	ND	5.79	ND	ND	ND	ND
PCB44	1099.22	18.15	45.05	478.64	103.77	149.51
PCB45	190.57	5.22	6.21	77.67	18.61	24.52
PCB46	124.42	2.01	5.78	77.26	16.55	18.83
PCB47/75	464.46	4.48	30.59	375.71	75.64	96.33
PCB48	141.59	2.39	ND	ND	ND	ND
PCB49	1200.48	28.00	61.21	926.91	177.04	219.41
PCB51	90.47	2.04	5.82	60.07	13.28	18.04
PCB52	1608.58	29.26	71.16	1141.22	221.24	266.76
PCB53	287.83	4.55	12.36	204.28	39.32	50.09
PCB56/60	271.02	6.18	14.41	9.74	9.63	13.23
PCB59	17.37	0.74	ND	ND	ND	ND
PCB63	23.06	ND	2.12	ND	0.92	1.11
PCB66	829.05	12.05	43.93	398.14	80.51	99.13
PCB70/76	962.36	14.26	44.71	519.10	103.03	105.78
PCB74	389.64	5.97	17.54	58.25	19.16	27.04
PCB82	60.66	ND	5.21	6.39	3.71	4.16
PCB83	23.48	ND	2.03	3.01	1.63	2.23
PCB84	196.00	4.38	12.68	120.25	24.71	30.32
PCB85	82.87	1.95	7.41	10.27	4.89	7.10
PCB87/115	140.65	3.49	9.89	16.66	7.87	11.27
PCB89	ND	ND	ND	ND	ND	ND
PCB91	145.88	3.04	10.62	135.14	26.63	32.55
PCB92	57.33	2.22	5.59	6.04	4.35	6.46
PCB95	444.96	14.98	28.13	312.60	63.30	82.61
PCB97	174.24	3.36	12.57	70.73	17.19	23.88
PCB99	251.55	6.50	21.96	188.02	39.74	52.71
PCB100	6.62	ND	0.94	8.53	1.78	2.33
PCB101/90	377.84	14.31	28.50	150.45	42.13	62.99
PCB105	105.46	3.13	9.92	20.76	7.45	11.24
PCB107	24.60	ND	3.07	4.48	2.74	2.91
PCB110	393.37	13.16	34.41	98.30	37.96	56.78
PCB114	9.25	ND	ND	ND	ND	ND
PCB118	287.89	8.37	26.70	131.54	30.86	41.72
PCB119	19.40	0.50	2.14	23.20	4.36	5.53
PCB124	10.38	ND	ND	ND	ND	ND
PCB128	23.99	2.08	3.70	12.97	3.87	5.46
PCB129	7.18	ND	ND	ND	ND	ND
PCB130	8.06	ND	2.67	5.28	1.75	2.30
PCB131	3.84	ND	ND	ND	ND	ND
PCB132	37.84	1.85	4.54	9.77	4.76	6.43
PCB134	6.14	0.67	ND	2.60	1.02	1.33
PCB135/144	25.91	3.46	4.21	10.86	4.47	6.12
PCB136	27.67	3.39	3.74	28.70	6.75	9.38
PCB137	7.08	ND	ND	4.54	1.16	2.09
PCB138/160/163	129.09	13.81	22.29	63.21	24.83	34.07
PCB141	22.16	3.37	3.88	8.76	3.30	5.05
PCB146	15.30	2.28	3.56	8.95	2.95	5.41
PCB149	131.82	16.25	19.16	138.05	33.77	46.86
PCB151	25.39	4.94	3.71	8.81	4.09	6.58

SITE_ID	CED01	CED01	CED01-1	CED02	CED03	CED03
FIELD_ID	LSJ98SCED01SA	LSJ98SCED01MA	LSJ99SCED011D	LSJ98SCED02SA	LSJ98SCED03SA	LSJ98SCED03MA
PCB153	112.40	16.62	19.32	97.29	29.58	41.73
PCB156	12.81	ND	ND	7.33	ND	2.12
PCB158	13.19	1.34	2.34	5.60	2.00	2.89
PCB167	6.26	ND	ND	6.09	4.38	1.81
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	22.47	1.96	4.32	16.80	5.82	6.90
PCB171	7.91	0.94	2.14	5.73	2.22	3.05
PCB172	5.04	ND	ND	ND	0.94	1.55
PCB173	ND	ND	ND	ND	ND	ND
PCB174	27.87	4.85	6.65	21.52	7.56	10.36
PCB175	1.45	0.19	ND	1.32	0.48	0.50
PCB176	4.18	0.76	0.87	2.99	1.04	1.70
PCB177	13.83	2.51	3.87	11.68	4.56	5.40
PCB178	5.81	1.07	1.81	2.97	1.38	2.15
PCB180	53.44	7.67	12.29	41.11	15.58	17.81
PCB183	16.46	2.60	3.54	12.72	4.65	6.08
PCB184	1.29	ND	1.46	1.40	0.21	0.12
PCB185	4.78	0.45	0.91	2.04	0.56	0.84
PCB187/182	32.57	5.76	7.12	25.34	9.37	12.84
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	2.13	ND	ND	35.35	0.71	0.92
PCB194	10.21	1.01	3.67	8.68	2.84	2.58
PCB195	4.02	0.56	1.47	2.75	1.54	1.41
PCB197	ND	ND	ND	ND	0.27	0.30
PCB198	ND	ND	ND	ND	ND	ND
PCB199	13.90	1.40	3.57	14.05	4.16	4.27
PCB200	2.04	0.24	ND	2.20	0.56	0.63
PCB201	2.17	0.31	ND	1.55	0.61	0.68
PCB203/196	13.30	1.39	3.71	12.77	3.94	4.05
PCB205	ND	ND	ND	ND	ND	ND
PCB206	3.84	ND	ND	5.42	0.79	0.76
PCB207	ND	ND	ND	ND	ND	ND
PCB209	ND	ND	ND	ND	ND	ND
Sum of 21 Congeners *	7522.50	195.86	390.75	4008.15	898.56	1138.56
Sum of 107 Congeners	18975.24	471.22	975.48	11482.54	2315.91	2927.70

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	CED03	CED04	CED04	CED04	CED05	CED06
FIELD_ID	LSJ98SCED03LA	LSJ98SCED04SA	LSJ98SCED04MA	LSJ98SCED04LA	LSJ98SCED05SA	LSJ98SCED06SA
BATCH_ID	99-020	99-020	99-020	99-020	99-021	99-021
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	10.66	ND	8.52	ND	ND	ND
PCB3	53.12	9.32	36.97	ND	ND	ND
PCB4/10	127.70	27.35	101.28	ND	1.89	4.77
PCB6	286.04	56.67	205.96	ND	5.48	6.89
PCB7/9	14.74	3.08	11.89	ND	ND	ND
PCB8/5	217.42	41.70	133.46	ND	4.14	8.00
PCB12/13	93.60	20.76	76.51	ND	1.99	2.69
PCB16/32	418.65	100.34	297.38	3.25	12.21	22.27
PCB17	324.39	73.19	228.60	2.16	9.45	17.29
PCB18	868.28	185.67	607.50	6.41	22.08	34.31
PCB19	52.35	12.95	40.52	ND	1.72	4.27
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	1.49	ND	ND	3.01	2.73
PCB24/27	92.45	22.93	70.50	ND	2.30	5.46
PCB25	227.22	65.88	193.92	ND	11.44	16.30
PCB26	376.66	87.95	293.81	ND	10.96	20.72
PCB28	559.61	138.97	397.70	4.18	27.47	45.54
PCB29	ND	ND	ND	ND	ND	ND
PCB31	781.94	178.16	557.39	3.70	30.37	46.05
PCB33/20	129.38	32.32	53.97	5.73	7.96	16.66
PCB40	48.43	18.96	31.22	2.31	8.09	11.72
PCB41/64/71	108.29	50.36	66.89	4.43	25.74	31.46
PCB42	211.11	67.00	154.69	2.92	15.43	25.94
PCB43	ND	ND	ND	ND	ND	ND
PCB44	407.05	136.53	303.54	4.85	37.36	59.59
PCB45	87.25	24.79	61.09	1.52	5.59	7.93
PCB46	93.78	21.28	69.46	ND	3.11	5.63
PCB47/75	370.85	110.65	286.75	1.81	16.22	34.69
PCB48	ND	ND	ND	ND	6.51	ND
PCB49	940.03	246.41	686.75	10.70	37.24	85.56
PCB51	62.68	15.49	44.11	ND	2.37	5.47
PCB52	1181.87	305.51	861.12	8.30	50.51	96.34
PCB53	229.42	52.91	161.84	1.34	7.21	15.14
PCB56/60	20.29	8.77	3.83	1.48	10.09	8.96
PCB59	ND	ND	ND	ND	1.12	ND
PCB63	ND	ND	ND	ND	0.72	ND
PCB66	374.48	101.49	234.67	4.61	24.33	46.70
PCB70/76	480.19	141.02	345.70	4.61	36.04	55.02
PCB74	58.17	18.16	20.06	1.83	9.61	14.51
PCB82	8.82	2.73	ND	ND	2.19	2.54
PCB83	5.54	1.80	ND	ND	1.04	1.49
PCB84	113.12	32.80	79.29	1.85	7.95	14.43
PCB85	18.37	3.74	ND	ND	3.41	5.03
PCB87/115	26.92	6.42	3.50	0.93	5.25	7.44
PCB89	ND	ND	ND	ND	ND	ND
PCB91	132.80	37.27	101.12	2.29	5.88	13.78
PCB92	9.26	3.69	2.57	0.87	2.28	3.71
PCB95	284.96	87.74	206.02	5.81	18.88	35.89
PCB97	70.82	23.67	40.86	1.71	6.72	11.93
PCB99	167.47	55.25	ND	4.67	11.86	25.28
PCB100	9.48	2.84	8.54	0.22	0.27	0.72
PCB101/90	141.72	50.52	70.23	6.54	18.30	30.31
PCB105	23.42	6.98	5.33	ND	3.82	7.09
PCB107	7.60	2.73	ND	ND	0.85	ND
PCB110	99.27	40.92	37.11	6.49	19.24	31.13
PCB114	ND	ND	ND	ND	ND	ND
PCB118	113.91	36.47	64.96	3.03	10.98	24.05
PCB119	23.44	6.60	19.02	0.79	0.95	2.68
PCB124	ND	ND	ND	ND	ND	ND
PCB128	11.66	5.79	9.05	ND	1.65	3.48
PCB129	ND	ND	ND	ND	0.36	ND
PCB130	6.11	1.98	ND	ND	0.68	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	13.24	4.33	5.49	1.12	2.49	2.14
PCB134	2.83	1.07	ND	ND	0.44	0.59
PCB135/144	13.25	4.98	6.06	1.23	1.83	3.09
PCB136	30.08	9.91	22.39	1.31	1.96	4.40
PCB137	ND	1.15	ND	ND	0.48	ND
PCB138/160/163	69.67	28.97	28.75	5.68	10.04	19.77
PCB141	11.04	4.38	3.53	0.83	1.31	2.89
PCB146	10.87	4.30	4.66	0.97	1.45	2.21
PCB149	139.35	47.87	98.31	7.10	10.32	22.51
PCB151	9.74	4.68	2.49	1.59	2.13	3.37

SITE_ID	CED03	CED04	CED04	CED04	CED05	CED06
FIELD_ID	LSJ98SCED03LA	LSJ98SCED04SA	LSJ98SCED04MA	LSJ98SCED04LA	LSJ98SCED05SA	LSJ98SCED06SA
PCB153	97.60	38.51	59.23	7.41	10.08	23.29
PCB156	8.31	2.24	ND	ND	ND	ND
PCB158	7.37	2.46	3.02	ND	0.94	1.79
PCB167	4.68	2.00	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	18.53	6.67	9.06	1.31	2.60	5.68
PCB171	7.43	3.34	4.41	0.67	0.78	1.59
PCB172	4.19	2.07	ND	ND	0.54	1.27
PCB173	ND	ND	ND	ND	ND	ND
PCB174	22.63	9.94	12.04	2.10	2.85	5.75
PCB175	1.21	0.72	ND	ND	0.14	0.24
PCB176	3.93	1.36	1.82	0.25	0.38	0.68
PCB177	13.53	6.04	6.39	1.14	1.68	3.34
PCB178	4.27	2.10	3.83	0.36	0.61	1.08
PCB180	50.86	19.14	26.12	3.68	6.00	12.37
PCB183	15.72	6.07	9.49	1.45	1.80	3.58
PCB184	2.16	0.33	2.12	0.17	0.12	0.17
PCB185	3.22	1.04	1.65	ND	0.31	0.59
PCB187/182	28.87	11.58	15.29	2.66	3.60	7.24
PCB189	ND	ND	ND	ND	ND	ND
PCB191	1.25	ND	ND	ND	ND	ND
PCB193	2.81	1.00	ND	ND	0.25	0.64
PCB194	12.01	3.61	8.44	0.75	1.00	2.56
PCB195	4.11	2.12	3.23	ND	0.54	1.69
PCB197	0.98	0.26	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	15.08	5.35	9.15	0.79	1.35	2.96
PCB200	3.13	0.88	ND	ND	0.25	0.38
PCB201	2.81	0.78	1.86	0.25	0.21	0.37
PCB203/196	14.08	5.44	7.10	0.91	1.42	3.24
PCB205	ND	ND	ND	ND	ND	ND
PCB206	5.48	1.62	3.24	0.67	0.41	0.97
PCB207	0.85	ND	ND	0.25	ND	0.18
PCB209	1.61	0.79	ND	2.38	0.24	0.71
Sum of 21 Congeners *	4275.42	1159.95	2869.59	68.20	253.75	458.26
Sum of 107 Congeners	11241.57	3037.10	7654.37	158.37	642.87	1122.92

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	CED06	CED06	CED07	CED07	CED07-1	CED08
FIELD_ID	LSJ98SCED06MA	LSJ98SCED06LA	LSJ98SCED07SA	LSJ98SCED07MA	LSJ99SCED071D	LSJ98SCED08SA
BATCH_ID	99-021	99-021	99-020	99-020	99-020	99-021
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	1.56	1.23	ND	ND
PCB3	ND	ND	3.68	4.24	ND	ND
PCB4/10	ND	ND	10.94	17.30	2.44	ND
PCB6	0.28	ND	28.70	40.15	4.30	0.87
PCB7/9	ND	ND	1.89	2.34	ND	ND
PCB8/5	0.54	ND	23.85	31.84	5.45	1.50
PCB12/13	ND	ND	5.50	7.62	2.06	ND
PCB16/32	4.70	ND	50.75	63.57	16.50	5.42
PCB17	3.33	ND	34.13	40.45	11.87	3.59
PCB18	9.78	ND	86.06	117.55	24.35	8.51
PCB19	0.63	ND	7.06	6.71	3.13	0.88
PCB21	ND	ND	ND	ND	ND	ND
PCB22	2.46	ND	ND	ND	ND	ND
PCB24/27	0.37	ND	10.75	12.00	4.76	1.15
PCB25	1.00	ND	31.20	27.02	12.71	2.73
PCB26	1.52	ND	36.89	36.51	16.81	4.01
PCB28	9.27	ND	75.67	78.06	37.98	10.90
PCB29	ND	ND	ND	ND	ND	ND
PCB31	9.77	ND	81.15	94.26	32.89	9.54
PCB33/20	4.47	ND	21.32	21.71	9.61	7.45
PCB40	3.75	ND	13.07	9.45	9.79	3.23
PCB41/64/71	12.09	ND	38.52	20.03	27.61	10.61
PCB42	5.52	ND	36.74	31.06	23.11	8.04
PCB43	ND	ND	ND	ND	ND	ND
PCB44	15.76	ND	81.76	69.14	47.74	16.59
PCB45	3.14	ND	13.44	14.15	6.95	2.27
PCB46	1.37	ND	10.65	12.15	5.30	1.28
PCB47/75	4.27	ND	48.45	44.60	31.75	9.29
PCB48	3.49	ND	ND	ND	ND	ND
PCB49	12.41	0.09	120.95	111.29	70.26	22.66
PCB51	0.85	ND	9.00	7.31	4.96	1.30
PCB52	18.31	ND	149.13	148.33	80.48	27.10
PCB53	2.83	ND	26.51	26.66	13.71	4.02
PCB56/60	8.47	ND	4.47	1.04	7.54	2.98
PCB59	0.73	ND	ND	ND	ND	ND
PCB63	0.32	0.06	ND	ND	ND	ND
PCB66	10.75	0.08	56.60	48.71	42.01	13.65
PCB70/76	14.91	ND	72.26	68.65	46.97	15.14
PCB74	5.64	ND	12.74	7.16	13.45	4.37
PCB82	1.51	ND	1.53	ND	2.48	ND
PCB83	0.54	ND	1.15	ND	1.35	0.61
PCB84	3.40	ND	18.03	14.70	12.95	4.37
PCB85	1.84	ND	2.95	0.85	4.28	1.60
PCB87/115	2.69	ND	4.26	0.96	5.04	2.69
PCB89	ND	ND	ND	ND	ND	ND
PCB91	2.04	ND	20.33	17.48	13.83	4.57
PCB92	1.36	ND	2.62	0.67	3.60	1.42
PCB95	7.73	ND	46.74	38.16	32.54	11.89
PCB97	3.08	ND	13.40	9.21	11.32	3.94
PCB99	4.12	ND	31.92	23.56	24.85	9.11
PCB100	ND	ND	1.60	1.31	ND	0.31
PCB101/90	7.78	ND	31.09	16.75	28.10	10.95
PCB105	1.94	ND	4.17	1.56	5.57	2.03
PCB107	0.45	ND	1.19	0.29	1.76	ND
PCB110	9.62	ND	26.98	9.73	28.24	11.15
PCB114	ND	ND	ND	ND	ND	ND
PCB118	4.93	ND	22.09	12.48	21.72	7.77
PCB119	0.30	ND	3.38	2.53	2.86	0.77
PCB124	ND	ND	ND	ND	ND	ND
PCB128	0.67	ND	2.80	1.39	2.43	2.03
PCB129	ND	ND	0.40	ND	ND	ND
PCB130	0.27	ND	1.10	0.36	ND	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	1.26	ND	2.39	1.22	3.28	1.29
PCB134	0.24	ND	0.60	ND	0.67	ND
PCB135/144	0.84	ND	2.77	1.02	3.39	1.22
PCB136	0.82	ND	5.44	4.10	4.36	1.72
PCB137	0.21	ND	0.63	ND	1.08	ND
PCB138/160/163	4.63	ND	16.08	6.26	18.75	8.31
PCB141	0.71	ND	2.49	0.81	2.97	0.92
PCB146	0.53	ND	2.65	0.97	1.93	1.01
PCB149	4.17	ND	26.41	18.86	22.75	8.68
PCB151	1.08	ND	2.57	0.87	2.97	1.27

SITE_ID	CED06	CED06	CED07	CED07	CED07-1	CED08
FIELD_ID	LSJ98SCED06MA	LSJ98SCED06LA	LSJ98SCED07SA	LSJ98SCED07MA	LSJ99SCED071D	LSJ98SCED08SA
PCB153	4.31	ND	22.20	12.66	21.45	9.39
PCB156	ND	ND	0.98	ND	ND	ND
PCB158	0.33	ND	1.45	0.36	2.14	0.69
PCB167	ND	ND	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	0.95	ND	4.94	2.13	4.80	2.32
PCB171	0.27	ND	1.68	0.71	1.89	0.46
PCB172	0.25	ND	0.83	0.37	ND	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	1.20	ND	4.86	2.35	5.53	2.03
PCB175	ND	ND	0.36	0.30	0.24	0.13
PCB176	0.14	ND	0.77	0.43	0.83	0.24
PCB177	0.55	ND	3.07	1.49	2.77	1.33
PCB178	0.25	ND	1.03	0.57	1.27	0.39
PCB180	2.39	ND	10.68	5.25	11.86	4.66
PCB183	0.74	ND	3.02	1.60	3.35	1.39
PCB184	0.12	0.15	0.17	0.20	0.33	0.08
PCB185	0.12	ND	0.48	0.20	0.76	0.21
PCB187/182	1.44	ND	6.45	2.85	7.38	2.91
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	ND	ND	0.78	0.31	ND	ND
PCB194	0.42	ND	2.88	1.60	2.38	0.96
PCB195	ND	ND	1.11	0.50	1.16	0.50
PCB197	ND	ND	0.23	0.18	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.56	ND	2.88	1.53	3.23	1.30
PCB200	ND	ND	0.56	0.25	0.49	0.18
PCB201	ND	ND	0.56	0.30	0.61	0.24
PCB203/196	0.50	ND	2.93	1.50	3.24	1.18
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.28	ND	1.11	0.50	1.63	0.44
PCB207	ND	ND	ND	ND	ND	0.07
PCB209	0.23	ND	0.55	0.50	0.85	0.25
Sum of 21 Congeners *	103.58	0.08	623.72	566.19	391.95	140.96
Sum of 107 Congeners	256.54	0.38	1581.71	1447.03	959.75	330.06

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	CED08	CED09	CED09	CED12	CED13	CED14
FIELD_ID	LSJ98SCED08MA	LSJ98SCED09SA	LSJ98SCED09MA	LSJ99SCED12D	LSJ99SCED13D	LSJ99SCED14D
BATCH_ID	99-021	99-021	99-021	99-020	99-020	99-020
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	61.74	ND	ND
PCB3	ND	0.56	1.08	179.54	ND	ND
PCB4/10	1.02	2.80	4.37	748.09	8.05	1.86
PCB6	1.81	2.94	6.88	1087.13	4.57	2.73
PCB7/9	ND	ND	ND	72.30	ND	ND
PCB8/5	2.17	5.19	8.85	1038.51	5.87	2.33
PCB12/13	0.51	ND	2.17	421.45	1.82	1.28
PCB16/32	5.70	14.75	19.51	1664.30	16.51	10.79
PCB17	3.68	11.28	14.00	1554.66	17.01	8.59
PCB18	8.99	24.87	34.22	2572.04	19.93	14.59
PCB19	0.86	2.54	2.99	383.48	6.60	2.34
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	1.85	ND	80.14	5.25	ND
PCB24/27	1.45	4.01	4.69	323.72	5.25	2.98
PCB25	3.23	7.80	12.08	1006.92	12.36	7.27
PCB26	3.83	11.50	14.97	1813.15	17.91	10.77
PCB28	10.81	33.31	42.85	2728.57	36.82	22.48
PCB29	ND	ND	ND	ND	ND	ND
PCB31	9.73	29.30	39.77	2791.34	30.71	20.86
PCB33/20	6.39	11.16	21.78	413.95	9.69	6.36
PCB40	3.19	9.52	11.05	213.44	7.09	4.23
PCB41/64/71	9.54	25.13	31.57	743.73	31.67	17.57
PCB42	7.37	19.17	26.98	761.39	19.06	12.27
PCB43	ND	ND	ND	ND	ND	ND
PCB44	15.56	41.49	52.84	1855.92	44.00	27.29
PCB45	2.25	5.75	7.54	213.62	5.75	4.85
PCB46	1.36	3.37	5.13	377.02	4.83	4.26
PCB47/75	7.92	22.88	30.12	2739.57	29.33	18.06
PCB48	0.88	ND	ND	1485.46	ND	ND
PCB49	21.60	55.67	71.48	2942.60	52.72	40.69
PCB51	1.28	3.88	4.81	393.71	6.26	2.96
PCB52	25.67	68.94	89.06	3449.49	65.11	48.04
PCB53	3.56	9.61	12.71	975.40	12.36	7.87
PCB56/60	1.65	8.23	6.99	334.46	16.77	6.59
PCB59	ND	0.71	ND	19.23	1.72	ND
PCB63	ND	0.73	0.63	36.71	3.46	0.98
PCB66	11.44	35.04	43.65	987.37	40.09	26.52
PCB70/76	13.69	39.58	50.00	1205.96	42.37	29.59
PCB74	3.38	12.03	13.10	444.52	18.08	9.19
PCB82	0.63	2.38	1.93	75.27	5.24	2.32
PCB83	0.31	1.41	1.18	37.76	2.42	ND
PCB84	4.22	10.28	12.97	263.92	11.67	7.20
PCB85	0.90	4.00	3.87	90.88	7.85	3.56
PCB87/115	0.90	5.27	5.06	186.10	10.76	5.05
PCB89	ND	ND	ND	ND	34.13	ND
PCB91	4.29	9.33	12.44	253.41	9.77	7.20
PCB92	0.99	3.34	3.18	90.64	6.50	2.72
PCB95	10.94	27.17	34.55	542.85	26.50	18.79
PCB97	3.27	9.84	10.58	195.00	11.02	6.77
PCB99	8.00	18.40	24.65	325.42	19.13	ND
PCB100	0.31	0.54	0.98	31.64	ND	ND
PCB101/90	9.39	24.89	30.03	444.67	28.65	17.36
PCB105	1.73	5.16	6.04	134.56	10.60	4.99
PCB107	0.32	1.11	1.41	28.68	1.98	0.93
PCB110	8.72	25.47	29.53	469.11	35.50	18.97
PCB114	ND	ND	ND	11.94	ND	ND
PCB118	5.86	18.16	20.59	358.90	25.87	15.28
PCB119	0.88	1.73	2.37	54.16	2.30	1.62
PCB124	ND	ND	ND	10.15	ND	0.22
PCB128	0.82	4.30	3.39	25.60	3.76	2.23
PCB129	ND	ND	ND	9.07	ND	ND
PCB130	0.38	1.27	1.01	12.84	1.71	ND
PCB131	ND	ND	ND	4.80	ND	ND
PCB132	0.76	2.05	3.29	31.56	5.84	2.78
PCB134	0.21	0.75	0.73	11.21	1.07	0.70
PCB135/144	0.92	2.56	3.18	32.09	3.86	2.14
PCB136	1.52	3.62	4.17	41.07	3.41	2.59
PCB137	ND	ND	0.95	11.02	1.26	ND
PCB138/160/163	5.79	18.45	18.97	158.94	20.97	11.98
PCB141	0.82	2.24	2.18	26.55	3.68	2.42
PCB146	0.85	2.26	2.23	20.95	3.34	1.51
PCB149	7.51	17.65	22.26	181.95	16.92	13.15
PCB151	0.95	3.29	3.30	35.61	4.21	2.33

SITE_ID	CED08	CED09	CED09	CED12	CED13	CED14
FIELD_ID	LSJ98SCED08MA	LSJ98SCED09SA	LSJ98SCED09MA	LSJ99SCED12D	LSJ99SCED13D	LSJ99SCED14D
PCB153	7.41	19.65	23.20	153.39	16.57	13.80
PCB156	ND	ND	ND	15.39	ND	ND
PCB158	0.48	1.61	1.90	18.42	2.89	1.40
PCB167	ND	ND	ND	9.02	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	1.37	4.03	4.17	28.98	4.36	2.97
PCB171	0.53	1.37	1.70	9.74	1.87	0.92
PCB172	0.21	ND	ND	5.85	ND	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	1.56	4.78	5.42	37.15	5.18	3.31
PCB175	0.10	ND	ND	2.94	ND	ND
PCB176	0.23	0.62	0.66	6.09	1.20	0.62
PCB177	1.03	2.79	3.14	20.36	3.34	2.36
PCB178	0.33	0.75	1.04	8.62	1.48	0.94
PCB180	3.32	9.42	11.93	73.02	10.57	7.85
PCB183	1.00	2.68	3.11	23.90	3.17	2.26
PCB184	0.07	0.19	0.27	1.15	1.37	1.04
PCB185	0.17	0.45	0.52	5.00	1.05	0.65
PCB187/182	2.21	5.79	6.97	46.87	7.18	5.11
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.17	ND	ND	4.28	ND	ND
PCB194	0.69	1.52	2.31	14.67	3.10	2.82
PCB195	0.24	ND	0.92	7.35	ND	ND
PCB197	ND	ND	ND	1.05	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.86	2.77	3.28	22.50	3.32	2.20
PCB200	0.13	0.25	0.40	3.14	ND	ND
PCB201	0.14	0.36	0.45	3.52	0.59	ND
PCB203/196	0.82	2.55	3.12	21.53	3.33	2.24
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.32	1.84	0.63	6.52	1.32	ND
PCB207	0.09	ND	ND	1.45	ND	ND
PCB209	ND	0.70	ND	1.75	2.47	ND
Sum of 21 Congeners *	121.82	346.70	427.84	14550.63	379.64	241.79
Sum of 107 Congeners	296.19	816.63	1030.03	42882.60	993.30	581.49

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT01	ORT01	ORT04-1	ORT04-1	ORT04-1	ORT04-1
FIELD_ID	LSJ98SORT01SA	LSJ98SORT01MA	LSJ99SORT041SB	LSJ99SORT041MB	LSJ99SORT041LB	LSJ99SORT041CB
BATCH_ID	99-018	99-018	99-021	99-021	99-021	99-021
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	ND	ND	ND
PCB6	ND	ND	ND	ND	ND	ND
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	0.83	ND	ND	ND	ND	ND
PCB12/13	ND	ND	ND	ND	ND	ND
PCB16/32	2.40	ND	ND	0.42	ND	ND
PCB17	1.38	0.13	0.19	0.39	ND	ND
PCB18	4.05	0.25	0.58	0.79	ND	ND
PCB19	ND	ND	ND	ND	ND	ND
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	0.47	ND	ND	ND	ND	ND
PCB25	ND	ND	ND	ND	ND	ND
PCB26	0.93	ND	ND	ND	ND	ND
PCB28	3.14	ND	0.36	0.73	ND	ND
PCB29	ND	ND	ND	ND	ND	ND
PCB31	3.34	ND	0.29	0.60	ND	ND
PCB33/20	2.47	ND	1.71	0.80	ND	ND
PCB40	1.37	ND	0.62	0.41	ND	ND
PCB41/64/71	5.06	ND	0.95	1.77	ND	ND
PCB42	3.16	ND	0.41	0.86	ND	ND
PCB43	ND	ND	ND	ND	ND	ND
PCB44	6.44	0.45	1.10	1.79	ND	ND
PCB45	1.24	ND	ND	0.47	ND	ND
PCB46	0.74	ND	ND	ND	ND	ND
PCB47/75	3.55	ND	0.41	0.81	ND	ND
PCB48	ND	ND	ND	ND	ND	ND
PCB49	10.42	1.27	2.16	3.64	0.12	0.41
PCB51	0.53	ND	ND	ND	ND	ND
PCB52	12.30	0.73	2.32	3.30	ND	0.22
PCB53	1.66	ND	0.23	0.41	ND	ND
PCB56/60	0.87	ND	0.26	0.48	ND	ND
PCB59	ND	ND	ND	ND	ND	ND
PCB63	ND	ND	ND	ND	0.11	ND
PCB66	5.18	0.47	0.84	1.40	0.10	0.17
PCB70/76	5.81	0.41	0.95	1.75	ND	ND
PCB74	1.89	0.24	0.34	0.43	ND	ND
PCB82	ND	ND	ND	ND	ND	ND
PCB83	0.32	ND	ND	ND	ND	ND
PCB84	3.05	0.20	0.78	0.91	ND	ND
PCB85	0.57	ND	0.33	ND	ND	ND
PCB87/115	1.00	ND	0.59	ND	ND	ND
PCB89	ND	ND	ND	ND	ND	ND
PCB91	3.67	0.29	0.86	1.30	ND	ND
PCB92	0.84	0.13	0.40	0.33	ND	ND
PCB95	9.49	0.65	2.64	3.37	ND	0.26
PCB97	2.66	0.23	0.78	1.00	ND	ND
PCB99	7.17	ND	1.89	2.54	ND	ND
PCB100	ND	ND	ND	ND	ND	ND
PCB101/90	8.54	0.82	3.22	3.44	ND	0.28
PCB105	0.77	ND	0.57	ND	ND	ND
PCB107	0.28	ND	ND	ND	ND	ND
PCB110	8.34	0.88	3.18	3.64	ND	0.34
PCB114	ND	ND	ND	ND	ND	ND
PCB118	4.05	0.39	1.71	1.43	ND	0.15
PCB119	0.59	ND	ND	0.29	ND	ND
PCB124	ND	ND	ND	ND	ND	ND
PCB128	1.11	ND	0.41	0.58	ND	ND
PCB129	ND	ND	ND	ND	ND	ND
PCB130	0.39	ND	ND	ND	ND	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	0.98	0.14	0.65	0.62	ND	0.10
PCB134	ND	ND	ND	ND	ND	ND
PCB135/144	0.96	ND	0.49	0.47	ND	ND
PCB136	1.67	0.18	0.52	0.72	ND	0.07
PCB137	0.27	ND	ND	ND	ND	ND
PCB138/160/163	6.20	0.74	2.47	2.85	ND	0.38
PCB141	0.86	ND	0.36	0.42	ND	ND
PCB146	1.04	0.15	0.46	0.54	ND	ND
PCB149	8.31	0.88	2.78	3.84	ND	0.42
PCB151	1.06	0.17	0.47	0.66	ND	ND

SITE_ID	ORT01	ORT01	ORT04-1	ORT04-1	ORT04-1	ORT04-1
FIELD_ID	LSJ98SORT01SA	LSJ98SORT01MA	LSJ99SORT041SB	LSJ99SORT041MB	LSJ99SORT041LB	LSJ99SORT041CB
PCB153	7.60	0.92	2.72	3.65	ND	0.43
PCB156	0.44	ND	ND	ND	ND	ND
PCB158	0.41	ND	0.24	0.20	ND	ND
PCB167	0.45	ND	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	1.12	ND	ND	0.74	ND	ND
PCB171	0.42	ND	0.12	0.15	ND	ND
PCB172	0.26	ND	ND	ND	ND	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	1.08	0.24	0.42	0.57	ND	ND
PCB175	ND	ND	ND	ND	ND	ND
PCB176	0.19	ND	ND	0.17	ND	ND
PCB177	0.86	0.17	0.26	0.51	ND	ND
PCB178	0.26	ND	ND	0.19	ND	ND
PCB180	2.98	0.48	0.95	1.70	ND	0.31
PCB183	0.85	0.19	0.39	0.43	ND	0.10
PCB184	0.14	0.09	0.19	0.21	0.14	0.14
PCB185	0.15	ND	ND	ND	ND	ND
PCB187/182	1.85	0.32	0.74	1.18	ND	0.17
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.18	ND	ND	ND	ND	ND
PCB194	0.60	ND	ND	0.33	ND	ND
PCB195	0.24	ND	ND	ND	ND	ND
PCB197	ND	ND	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.52	ND	0.24	0.38	ND	ND
PCB200	ND	ND	ND	ND	ND	ND
PCB201	0.14	ND	ND	ND	ND	ND
PCB203/196	0.70	ND	0.17	0.43	ND	ND
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.24	ND	ND	ND	ND	ND
PCB207	ND	ND	ND	ND	ND	ND
PCB209	0.19	ND	ND	ND	ND	ND
Sum of 21 Congeners *	75.17	6.45	21.17	27.22	0.10	2.45
Sum of 107 Congeners	175.29	12.21	45.72	61.04	0.47	3.95

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT04-2	ORT04-2	ORT04-2	ORT04-2	ORT05	ORT05
FIELD_ID	LSJ99SORT041SC	LSJ99SORT041MC	LSJ99SORT041LC	LSJ99SORT041CC	LSJ98SORT05SA	LSJ98SORT05MA
BATCH_ID	99-021	99-021	99-021	99-021	99-018	99-018
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	ND	ND	ND
PCB6	ND	ND	ND	ND	ND	ND
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	ND	ND	ND	ND	ND	ND
PCB12/13	ND	ND	ND	ND	ND	ND
PCB16/32	0.45	ND	ND	ND	1.09	ND
PCB17	0.31	ND	ND	ND	0.86	ND
PCB18	0.70	ND	ND	ND	2.13	ND
PCB19	ND	ND	ND	ND	ND	ND
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	ND	ND	ND	ND	0.21	ND
PCB25	ND	ND	ND	ND	0.35	ND
PCB26	0.25	ND	ND	ND	0.54	ND
PCB28	0.73	ND	ND	ND	2.06	ND
PCB29	ND	ND	ND	ND	ND	ND
PCB31	0.63	ND	ND	ND	1.64	ND
PCB33/20	0.67	ND	ND	ND	1.17	ND
PCB40	ND	ND	ND	ND	0.87	ND
PCB41/64/71	1.10	0.46	ND	ND	3.09	ND
PCB42	0.69	ND	ND	ND	1.89	ND
PCB43	ND	ND	ND	ND	ND	ND
PCB44	1.40	0.21	ND	ND	3.91	0.11
PCB45	0.23	ND	ND	ND	0.67	ND
PCB46	ND	ND	ND	ND	0.36	ND
PCB47/75	0.69	ND	ND	ND	1.88	ND
PCB48	ND	ND	ND	ND	ND	ND
PCB49	2.54	0.85	0.14	0.23	5.14	0.22
PCB51	0.24	ND	ND	ND	0.35	ND
PCB52	2.53	0.53	ND	ND	5.81	0.20
PCB53	0.45	ND	ND	ND	0.83	ND
PCB56/60	0.35	ND	ND	ND	0.86	ND
PCB59	ND	ND	ND	ND	0.12	ND
PCB63	ND	ND	0.11	ND	0.15	0.07
PCB66	1.29	0.32	0.14	0.12	3.10	0.12
PCB70/76	1.21	0.23	ND	ND	3.31	0.09
PCB74	0.44	ND	ND	ND	1.21	ND
PCB82	ND	ND	ND	ND	ND	ND
PCB83	ND	ND	ND	ND	0.16	ND
PCB84	0.67	ND	ND	ND	1.38	ND
PCB85	ND	ND	ND	ND	0.34	ND
PCB87/115	ND	ND	ND	ND	0.43	ND
PCB89	ND	ND	ND	ND	ND	ND
PCB91	0.75	ND	ND	ND	1.66	ND
PCB92	0.33	ND	ND	ND	0.48	ND
PCB95	1.87	ND	ND	ND	4.01	0.12
PCB97	0.67	0.23	ND	ND	1.18	ND
PCB99	1.45	0.56	ND	ND	3.15	ND
PCB100	ND	ND	ND	ND	ND	ND
PCB101/90	1.93	0.65	ND	ND	3.82	0.08
PCB105	ND	ND	ND	ND	0.34	ND
PCB107	ND	ND	ND	ND	ND	ND
PCB110	2.18	0.59	ND	ND	3.87	0.15
PCB114	ND	ND	ND	ND	ND	ND
PCB118	1.04	0.27	ND	ND	2.06	ND
PCB119	0.15	ND	ND	ND	0.30	ND
PCB124	ND	ND	ND	ND	ND	ND
PCB128	ND	ND	ND	ND	0.42	ND
PCB129	ND	ND	ND	ND	ND	ND
PCB130	ND	ND	ND	ND	ND	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	0.24	0.13	ND	ND	0.55	ND
PCB134	ND	ND	ND	ND	0.12	ND
PCB135/144	0.31	0.08	ND	ND	0.52	ND
PCB136	0.41	0.13	ND	ND	0.75	ND
PCB137	ND	ND	ND	ND	ND	ND
PCB138/160/163	2.09	0.61	ND	ND	2.68	ND
PCB141	0.24	ND	ND	ND	0.34	ND
PCB146	0.38	0.12	ND	ND	0.60	ND
PCB149	2.40	0.68	ND	ND	3.87	0.09
PCB151	0.42	0.16	ND	ND	0.55	ND

SITE_ID	ORT04-2	ORT04-2	ORT04-2	ORT04-2	ORT05	ORT05
FIELD_ID	LSJ99SORT041SC	LSJ99SORT041MC	LSJ99SORT041LC	LSJ99SORT041CC	LSJ98SORT05SA	LSJ98SORT05MA
PCB153	2.45	0.67	ND	ND	3.68	0.11
PCB156	ND	ND	ND	ND	ND	ND
PCB158	0.21	ND	ND	ND	0.19	ND
PCB167	ND	ND	ND	ND	0.20	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	0.35	ND	ND	ND	0.65	ND
PCB171	0.10	ND	ND	ND	0.19	ND
PCB172	ND	ND	ND	ND	0.15	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	0.45	0.20	ND	ND	0.63	ND
PCB175	ND	ND	ND	ND	ND	ND
PCB176	ND	ND	ND	ND	0.10	ND
PCB177	0.36	ND	ND	ND	0.44	ND
PCB178	0.12	ND	ND	ND	0.17	ND
PCB180	1.07	0.39	ND	ND	1.54	ND
PCB183	0.34	0.05	ND	ND	0.43	ND
PCB184	0.19	0.17	0.21	0.18	0.10	0.12
PCB185	ND	ND	ND	ND	0.07	ND
PCB187/182	0.83	0.24	ND	ND	1.06	ND
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	ND	ND	ND	ND	0.10	ND
PCB194	0.22	ND	ND	ND	0.39	ND
PCB195	ND	ND	ND	ND	0.19	ND
PCB197	ND	ND	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.26	ND	ND	ND	0.44	ND
PCB200	ND	ND	ND	ND	ND	ND
PCB201	ND	ND	ND	ND	0.07	ND
PCB203/196	0.34	ND	ND	ND	0.40	ND
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.21	ND	ND	ND	0.15	ND
PCB207	ND	ND	ND	ND	ND	ND
PCB209	0.13	ND	ND	ND	0.08	ND
Sum of 21 Congeners *	18.93	4.48	0.14	0.12	37.55	0.77
Sum of 107 Congeners	42.06	8.53	0.60	0.53	88.60	1.48

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT05	ORT06	ORT07	ORT07	ORT07	ORT09
FIELD_ID	LSJ98SORT05LA	LSJ98SORT06SA	LSJ98SORT07SA	LSJ98SORT07MA	LSJ98SORT07LA	LSJ98SORT09SA
BATCH_ID	99-018	99-018	99-018	99-018	99-018	99-018
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	ND	ND	ND
PCB6	ND	ND	0.23	ND	0.33	ND
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	ND	ND	0.34	ND	0.50	0.37
PCB12/13	ND	ND	ND	ND	ND	ND
PCB16/32	ND	0.37	1.01	0.97	1.50	1.07
PCB17	ND	0.33	0.56	0.68	0.90	0.71
PCB18	ND	0.82	1.57	1.64	2.51	1.96
PCB19	ND	ND	0.17	ND	0.25	ND
PCB21	ND	ND	1.17	ND	ND	1.98
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	ND	0.12	0.27	0.22	0.32	0.20
PCB25	ND	ND	0.40	0.34	0.50	0.34
PCB26	ND	ND	0.46	0.53	0.48	0.46
PCB28	ND	0.75	1.49	1.73	2.36	1.57
PCB29	ND	ND	ND	ND	ND	ND
PCB31	ND	0.59	1.49	1.22	1.75	1.47
PCB33/20	ND	0.75	1.29	1.46	1.73	1.74
PCB40	ND	0.30	1.19	ND	1.72	0.77
PCB41/64/71	ND	1.31	3.21	3.76	4.29	3.35
PCB42	ND	0.81	2.10	2.48	2.81	1.87
PCB43	ND	ND	ND	ND	ND	ND
PCB44	ND	1.51	3.71	3.95	4.84	3.92
PCB45	ND	0.24	0.51	0.67	0.83	0.72
PCB46	ND	ND	0.27	ND	0.45	0.28
PCB47/75	ND	0.74	2.81	3.58	3.71	1.86
PCB48	ND	ND	ND	ND	ND	ND
PCB49	0.07	2.61	6.63	7.54	9.38	5.87
PCB51	ND	0.16	0.53	0.88	0.75	0.38
PCB52	ND	2.58	6.74	6.87	9.10	5.91
PCB53	ND	0.30	0.96	1.23	1.35	0.94
PCB56/60	ND	0.34	0.77	1.09	0.85	1.06
PCB59	ND	ND	ND	ND	ND	ND
PCB63	0.06	ND	ND	ND	ND	ND
PCB66	ND	1.20	3.17	3.53	4.18	3.22
PCB70/76	ND	1.34	2.64	2.89	3.67	2.77
PCB74	ND	0.48	1.23	1.24	1.43	1.25
PCB82	ND	ND	ND	ND	ND	ND
PCB83	ND	ND	ND	ND	ND	0.28
PCB84	ND	0.77	1.90	2.01	2.61	1.69
PCB85	ND	0.20	0.61	0.56	0.72	0.51
PCB87/115	ND	ND	1.03	ND	0.86	0.60
PCB89	ND	ND	ND	ND	ND	ND
PCB91	ND	1.05	2.63	3.00	4.39	1.93
PCB92	ND	0.31	0.81	0.97	0.97	0.76
PCB95	ND	2.54	6.34	6.24	8.56	4.83
PCB97	ND	0.85	2.01	1.85	2.28	1.53
PCB99	ND	1.94	5.65	6.13	8.33	3.84
PCB100	ND	ND	ND	0.41	0.52	ND
PCB101/90	ND	2.58	6.56	6.41	8.30	4.83
PCB105	ND	ND	0.91	0.62	0.79	0.64
PCB107	ND	ND	ND	ND	ND	ND
PCB110	ND	2.55	6.98	6.81	8.31	5.33
PCB114	ND	ND	ND	ND	ND	ND
PCB118	ND	1.24	3.47	3.71	4.02	2.61
PCB119	ND	0.18	0.59	0.78	0.83	0.43
PCB124	ND	ND	ND	ND	ND	ND
PCB128	ND	0.35	1.08	0.96	1.13	0.70
PCB129	ND	ND	ND	ND	ND	ND
PCB130	ND	ND	0.49	0.52	0.47	0.31
PCB131	ND	ND	ND	ND	ND	ND
PCB132	ND	0.38	1.03	1.02	1.05	0.76
PCB134	ND	ND	ND	0.22	0.19	0.18
PCB135/144	ND	0.38	1.20	1.03	1.04	0.82
PCB136	ND	0.51	1.50	1.54	1.92	1.03
PCB137	ND	ND	ND	ND	ND	ND
PCB138/160/163	ND	2.12	6.46	6.21	6.64	4.80
PCB141	ND	0.28	0.90	0.63	0.59	0.63
PCB146	ND	0.42	1.49	1.48	1.82	1.03
PCB149	ND	2.65	7.88	8.05	10.36	5.60
PCB151	ND	0.42	1.17	0.93	1.14	1.06

SITE_ID	ORT05	ORT06	ORT07	ORT07	ORT07	ORT09
FIELD_ID	LSJ98SORT05LA	LSJ98SORT06SA	LSJ98SORT07SA	LSJ98SORT07MA	LSJ98SORT07LA	LSJ98SORT09SA
PCB153	ND	2.50	8.08	8.48	10.43	5.87
PCB156	ND	ND	ND	ND	ND	ND
PCB158	ND	0.12	0.39	0.43	0.32	0.28
PCB167	ND	ND	ND	ND	0.63	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	ND	0.45	1.84	1.65	2.22	1.38
PCB171	ND	0.17	0.53	0.50	0.61	0.40
PCB172	ND	ND	0.42	0.36	0.35	0.28
PCB173	ND	ND	ND	ND	ND	ND
PCB174	ND	0.40	1.48	1.42	1.71	1.33
PCB175	ND	ND	ND	0.11	0.14	ND
PCB176	ND	0.08	0.26	ND	0.25	0.22
PCB177	ND	0.31	1.17	1.19	1.44	0.90
PCB178	ND	0.10	0.41	0.41	0.44	0.32
PCB180	ND	1.09	3.92	3.70	4.39	3.49
PCB183	ND	0.33	1.09	1.09	1.34	1.07
PCB184	0.09	0.09	ND	ND	ND	0.12
PCB185	ND	ND	0.22	0.16	0.21	0.22
PCB187/182	ND	0.71	2.51	2.75	2.94	2.51
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	ND	ND	0.26	ND	0.24	0.20
PCB194	ND	0.20	0.80	0.94	1.09	1.18
PCB195	ND	ND	0.40	0.39	0.48	0.38
PCB197	ND	ND	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	ND	0.25	1.01	1.19	1.27	1.63
PCB200	ND	ND	ND	0.12	0.14	0.22
PCB201	ND	ND	0.26	0.21	0.22	0.27
PCB203/196	ND	0.24	1.03	1.14	1.33	1.77
PCB205	ND	ND	ND	ND	ND	ND
PCB206	ND	ND	0.53	0.85	0.86	1.11
PCB207	ND	ND	ND	0.14	ND	0.14
PCB209	ND	ND	0.29	0.42	0.41	0.53
Sum of 21 Congeners *	0.00	20.45	60.05	60.68	74.41	51.13
Sum of 107 Congeners	0.22	46.41	136.51	138.24	173.79	118.59

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT10	ORT10	ORT10	ORT13	ORT13	ORT13
FIELD_ID	LSJ98SORT10SA	LSJ98SORT10MA	LSJ98SORT10LA	LSJ98SORT13SA	LSJ98SORT13MA	LSJ98SORT13LA
BATCH_ID	99-018	99-018	99-018	99-018	99-018	99-018
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	ND	ND	ND
PCB6	0.78	2.23	ND	ND	ND	ND
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	0.89	2.16	ND	0.52	0.56	ND
PCB12/13	ND	ND	ND	ND	ND	ND
PCB16/32	2.57	7.16	ND	1.73	2.81	ND
PCB17	1.57	4.10	ND	1.31	1.88	ND
PCB18	4.43	11.56	ND	2.89	4.60	ND
PCB19	0.32	0.65	ND	0.30	0.36	ND
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	0.57	1.79	ND	0.45	0.55	ND
PCB25	0.93	3.05	ND	0.62	0.63	ND
PCB26	1.22	3.42	ND	1.13	0.90	ND
PCB28	3.32	9.61	ND	3.34	3.93	ND
PCB29	ND	ND	ND	ND	ND	ND
PCB31	3.26	9.15	ND	2.20	3.13	ND
PCB33/20	2.61	5.71	ND	1.86	3.13	ND
PCB40	1.93	3.61	ND	1.36	2.36	ND
PCB41/64/71	4.36	9.60	ND	4.75	7.84	ND
PCB42	3.44	7.24	ND	3.07	4.92	ND
PCB43	ND	ND	ND	ND	ND	ND
PCB44	6.74	16.09	0.10	6.43	9.67	ND
PCB45	1.48	2.99	ND	1.04	2.06	ND
PCB46	0.77	2.14	ND	0.58	0.94	ND
PCB47/75	4.20	10.50	ND	3.69	4.78	ND
PCB48	ND	ND	ND	ND	ND	ND
PCB49	12.10	28.54	0.20	9.58	16.03	ND
PCB51	0.95	1.68	ND	0.73	0.90	ND
PCB52	13.11	32.86	0.21	10.32	17.20	ND
PCB53	2.16	4.98	ND	1.46	2.34	ND
PCB56/60	0.74	0.75	ND	1.28	1.71	ND
PCB59	ND	ND	ND	ND	0.51	ND
PCB63	ND	ND	ND	ND	ND	ND
PCB66	5.34	11.93	0.14	5.33	7.34	ND
PCB70/76	5.30	12.48	ND	5.33	7.99	ND
PCB74	1.62	2.80	ND	1.91	2.60	ND
PCB82	ND	ND	ND	ND	ND	ND
PCB83	ND	ND	ND	0.33	0.50	ND
PCB84	2.70	6.15	ND	2.57	4.30	ND
PCB85	0.31	0.77	ND	0.61	0.97	ND
PCB87/115	0.59	0.57	ND	1.01	1.56	ND
PCB89	ND	ND	ND	ND	ND	ND
PCB91	4.20	9.93	0.06	3.35	5.96	ND
PCB92	0.59	0.80	ND	0.97	1.52	ND
PCB95	8.69	19.79	0.17	7.66	15.15	ND
PCB97	2.28	4.93	ND	2.37	3.87	ND
PCB99	7.61	16.92	0.13	6.60	11.18	ND
PCB100	0.48	0.97	ND	ND	0.46	ND
PCB101/90	7.11	14.65	0.10	7.56	14.07	ND
PCB105	0.83	0.84	ND	1.10	1.31	ND
PCB107	ND	ND	ND	ND	0.78	ND
PCB110	6.12	11.00	0.10	8.19	13.50	ND
PCB114	ND	ND	ND	ND	ND	ND
PCB118	3.71	7.05	ND	4.47	6.38	ND
PCB119	0.73	1.80	ND	0.67	1.05	ND
PCB124	ND	ND	ND	ND	ND	ND
PCB128	0.73	1.56	ND	0.95	1.38	ND
PCB129	ND	ND	ND	ND	ND	ND
PCB130	0.33	0.41	ND	0.36	ND	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	0.73	1.07	ND	0.86	1.89	ND
PCB134	0.17	ND	ND	0.18	0.33	ND
PCB135/144	0.84	1.36	ND	0.95	2.02	ND
PCB136	1.76	3.84	ND	1.49	3.09	ND
PCB137	ND	0.35	ND	ND	ND	ND
PCB138/160/163	4.59	8.24	ND	5.98	10.90	ND
PCB141	0.58	0.79	ND	0.85	1.40	ND
PCB146	1.05	1.84	ND	1.20	2.15	ND
PCB149	8.63	18.12	0.17	7.60	15.53	ND
PCB151	0.84	1.16	ND	1.13	2.29	ND

SITE_ID	ORT10	ORT10	ORT10	ORT13	ORT13	ORT13
FIELD_ID	LSJ98SORT10SA	LSJ98SORT10MA	LSJ98SORT10LA	LSJ98SORT13SA	LSJ98SORT13MA	LSJ98SORT13LA
PCB153	7.93	15.55	0.15	7.74	14.36	ND
PCB156	ND	ND	ND	0.38	ND	ND
PCB158	0.29	0.60	ND	0.45	0.80	ND
PCB167	0.26	ND	ND	0.31	0.45	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	1.55	2.24	ND	1.49	2.65	ND
PCB171	0.47	0.85	ND	0.46	0.82	ND
PCB172	0.35	0.36	ND	0.25	0.54	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	1.18	2.20	ND	1.54	2.75	ND
PCB175	ND	0.13	ND	0.10	0.12	ND
PCB176	0.24	0.35	ND	0.19	0.45	ND
PCB177	0.93	1.78	ND	0.96	1.85	ND
PCB178	0.31	0.57	ND	0.33	0.61	ND
PCB180	3.06	5.68	ND	3.15	6.06	ND
PCB183	0.95	1.68	ND	0.96	1.92	ND
PCB184	0.11	0.13	0.08	0.10	0.13	0.11
PCB185	0.14	0.22	ND	0.16	0.33	ND
PCB187/182	2.02	3.69	ND	2.09	4.06	ND
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.14	0.31	ND	0.19	0.31	ND
PCB194	0.68	1.21	ND	0.55	1.00	ND
PCB195	0.38	0.60	ND	0.30	0.48	ND
PCB197	ND	ND	ND	0.05	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.77	1.45	ND	0.86	1.31	ND
PCB200	0.10	0.25	ND	0.08	0.21	ND
PCB201	0.15	0.29	ND	0.16	0.29	ND
PCB203/196	0.88	1.47	ND	0.84	1.37	ND
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.41	0.69	ND	0.43	0.55	ND
PCB207	0.05	ND	ND	ND	ND	ND
PCB209	0.32	0.49	ND	0.18	0.42	ND
Sum of 21 Congeners *	72.59	156.49	0.80	72.46	119.42	0.00
Sum of 107 Congeners	176.58	386.48	1.61	166.52	279.05	0.11

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT15	ORT15	ORT16	ORT18	ORT21	ORT21
FIELD_ID	LSJ98SORT15MA	LSJ98SORT15LA	LSJ98SORT16SA	LSJ98SORT18SA	LSJ98SORT21SA	LSJ98SORT21MA
BATCH_ID	99-018	99-018	99-018	99-018	99-019	99-019
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	0.89	ND	ND
PCB6	2.15	3.07	0.18	0.15	0.53	1.26
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	2.83	2.28	0.26	0.31	0.79	1.56
PCB12/13	ND	ND	ND	ND	ND	ND
PCB16/32	7.52	8.89	1.45	1.31	2.86	4.98
PCB17	5.13	4.82	1.07	1.07	1.94	3.17
PCB18	11.97	15.49	2.47	2.16	4.72	8.63
PCB19	1.31	1.10	0.19	0.23	0.34	0.68
PCB21	ND	ND	ND	ND	2.50	ND
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	2.18	2.13	0.28	0.49	0.70	1.12
PCB25	3.15	3.01	0.40	0.47	1.02	1.42
PCB26	4.24	3.69	0.74	0.71	1.54	1.76
PCB28	13.28	8.37	2.70	2.21	4.77	6.57
PCB29	ND	ND	ND	ND	ND	ND
PCB31	10.47	10.75	2.08	1.64	4.03	6.48
PCB33/20	7.17	5.64	1.32	1.01	2.38	3.99
PCB40	4.68	2.82	0.84	0.99	1.40	1.91
PCB41/64/71	13.94	6.71	3.75	3.08	5.46	6.04
PCB42	9.92	6.33	2.16	2.19	3.58	4.62
PCB43	ND	ND	ND	ND	ND	ND
PCB44	20.59	13.95	4.78	4.53	8.15	10.17
PCB45	3.39	3.12	0.77	0.67	1.30	1.99
PCB46	1.99	2.54	0.44	0.45	0.78	0.99
PCB47/75	12.11	10.13	2.58	2.70	4.63	5.41
PCB48	ND	ND	ND	ND	ND	ND
PCB49	31.83	29.71	6.47	6.59	11.88	14.56
PCB51	2.46	1.73	0.48	0.60	0.74	0.76
PCB52	35.33	35.98	7.60	7.59	13.57	18.10
PCB53	5.50	6.09	1.20	1.37	1.95	2.64
PCB56/60	2.28	0.89	1.10	1.10	0.96	0.66
PCB59	ND	ND	ND	ND	ND	ND
PCB63	ND	ND	ND	ND	ND	ND
PCB66	17.14	10.52	4.04	3.65	7.02	7.94
PCB70/76	17.25	12.77	4.17	3.83	6.60	8.48
PCB74	5.01	2.12	1.50	1.34	2.12	2.38
PCB82	ND	ND	ND	0.31	ND	ND
PCB83	0.49	ND	ND	0.30	ND	ND
PCB84	6.46	4.91	1.59	1.88	2.67	3.16
PCB85	1.01	ND	0.34	0.47	0.46	0.42
PCB87/115	1.01	ND	0.54	0.99	0.60	0.69
PCB89	ND	ND	ND	ND	ND	ND
PCB91	9.04	9.34	1.97	2.10	3.38	4.25
PCB92	1.45	ND	0.60	0.79	0.77	0.59
PCB95	19.59	17.56	4.65	5.28	8.02	9.58
PCB97	5.39	3.33	1.44	1.58	2.28	2.62
PCB99	16.73	13.61	3.89	4.15	7.05	8.04
PCB100	0.95	1.05	ND	ND	0.31	0.41
PCB101/90	17.18	10.18	4.53	5.41	7.37	7.76
PCB105	1.47	ND	0.54	0.80	0.67	0.73
PCB107	ND	ND	ND	ND	ND	ND
PCB110	15.04	5.61	4.49	5.88	7.11	6.45
PCB114	ND	ND	ND	ND	ND	ND
PCB118	9.49	4.88	2.58	3.32	4.35	4.52
PCB119	1.80	1.46	0.42	0.42	0.73	0.78
PCB124	ND	ND	ND	ND	ND	ND
PCB128	1.40	ND	0.50	0.74	0.78	0.63
PCB129	ND	ND	ND	ND	ND	ND
PCB130	ND	ND	ND	0.24	ND	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	1.01	0.76	0.47	0.88	0.87	0.93
PCB134	0.31	ND	ND	0.18	ND	ND
PCB135/144	1.80	0.75	0.55	0.68	0.86	0.81
PCB136	3.58	3.69	0.87	0.91	1.46	1.67
PCB137	ND	ND	ND	0.17	ND	0.18
PCB138/160/163	10.29	4.73	3.24	4.00	5.01	4.26
PCB141	1.29	0.58	0.30	0.47	0.51	0.59
PCB146	1.98	1.13	0.76	0.81	1.05	0.72
PCB149	17.84	16.80	4.44	4.68	7.32	8.09
PCB151	1.82	0.69	0.62	0.67	0.81	0.67

SITE_ID	ORT15	ORT15	ORT16	ORT18	ORT21	ORT21
FIELD_ID	LSJ98SORT15MA	LSJ98SORT15LA	LSJ98SORT16SA	LSJ98SORT18SA	LSJ98SORT21SA	LSJ98SORT21MA
PCB153	16.74	12.21	4.21	4.66	6.91	6.90
PCB156	ND	ND	ND	0.21	ND	ND
PCB158	0.67	0.20	0.22	0.27	0.35	0.29
PCB167	0.40	ND	ND	0.21	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	3.19	1.83	0.66	0.74	1.13	1.07
PCB171	0.93	0.57	0.31	0.23	0.32	0.32
PCB172	0.63	0.35	ND	ND	0.23	0.27
PCB173	ND	ND	ND	ND	ND	ND
PCB174	3.02	1.80	0.71	0.58	1.03	0.94
PCB175	0.16	0.12	ND	ND	ND	0.09
PCB176	0.45	0.29	0.13	0.12	0.19	0.16
PCB177	1.99	1.24	0.47	0.46	0.79	0.67
PCB178	0.69	0.35	0.18	0.19	0.25	0.22
PCB180	7.17	4.40	1.64	1.76	2.76	2.51
PCB183	2.06	1.30	0.53	0.50	0.83	0.72
PCB184	0.11	0.11	0.10	0.10	0.11	0.10
PCB185	0.35	0.20	0.11	0.07	0.10	0.11
PCB187/182	4.72	2.74	1.17	1.22	1.80	1.65
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.44	0.20	0.10	0.08	0.13	0.09
PCB194	1.30	0.81	0.38	0.34	0.59	0.48
PCB195	0.51	0.42	ND	0.15	0.32	0.24
PCB197	0.12	0.08	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	1.89	0.97	0.45	0.42	0.71	0.61
PCB200	0.35	0.16	ND	ND	0.10	0.11
PCB201	0.36	0.18	ND	0.07	0.12	ND
PCB203/196	1.87	1.25	0.50	0.33	0.69	0.63
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.60	0.44	0.22	0.24	0.40	0.36
PCB207	0.11	0.09	ND	ND	ND	ND
PCB209	0.23	0.33	ND	0.11	0.20	0.18
Sum of 21 Congeners *	189.17	134.36	45.63	49.48	77.83	90.23
Sum of 107 Congeners	454.30	348.35	106.44	114.50	182.76	215.54

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT21	ORT24	ORT25	ORT25	ORT26	ORT27
FIELD_ID	LSJ98SORT21LA	LSJ98SORT24SA	LSJ98SORT25SA	LSJ98SORT25MA	LSJ98SORT26SA	LSJ98SORT27SA
BATCH_ID	99-019	99-019	99-019	99-019	99-019	99-019
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	ND	ND	ND	ND	ND
PCB6	ND	ND	2.24	3.46	1.65	3.58
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	ND	ND	2.97	3.44	2.38	4.65
PCB12/13	ND	ND	ND	0.90	ND	0.87
PCB16/32	ND	2.08	7.41	7.58	5.54	8.88
PCB17	0.19	1.73	6.34	5.19	4.40	6.35
PCB18	0.48	3.63	10.89	12.13	8.79	13.29
PCB19	ND	0.41	1.79	1.17	1.17	1.59
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	ND	ND	ND	0.40	ND
PCB24/27	ND	0.52	1.96	1.96	1.41	2.16
PCB25	ND	0.94	5.26	4.81	3.10	5.60
PCB26	ND	1.49	7.18	5.06	3.83	6.78
PCB28	0.42	4.56	16.57	13.87	11.74	19.16
PCB29	ND	ND	ND	ND	ND	ND
PCB31	0.28	3.28	14.64	12.52	9.40	16.07
PCB33/20	0.25	1.79	4.95	6.32	5.27	7.34
PCB40	ND	2.19	4.25	4.05	3.47	4.28
PCB41/64/71	0.43	6.17	13.83	11.50	11.21	14.70
PCB42	0.26	3.81	9.98	9.36	8.41	11.08
PCB43	ND	ND	ND	ND	ND	42.01
PCB44	0.71	8.13	20.46	18.56	16.72	23.57
PCB45	ND	1.32	2.92	2.77	2.61	4.05
PCB46	ND	0.62	2.18	2.01	1.69	2.21
PCB47/75	0.30	4.51	13.75	12.12	10.23	16.59
PCB48	ND	ND	ND	ND	ND	ND
PCB49	0.82	11.18	29.90	27.52	23.39	33.80
PCB51	ND	0.77	2.17	1.92	1.59	2.46
PCB52	0.93	12.50	34.57	32.27	26.34	38.58
PCB53	0.12	2.00	5.56	4.82	3.98	5.59
PCB56/60	0.11	2.35	5.00	1.35	2.57	3.53
PCB59	ND	0.43	ND	ND	0.42	ND
PCB63	0.06	0.19	ND	ND	ND	ND
PCB66	0.53	6.71	20.19	15.36	14.19	21.91
PCB70/76	0.47	6.29	20.24	16.16	13.75	22.63
PCB74	0.21	2.56	6.35	3.98	4.44	6.16
PCB82	ND	0.66	ND	ND	0.62	1.01
PCB83	ND	0.36	ND	0.27	0.58	0.74
PCB84	0.23	2.75	6.26	5.16	4.78	6.45
PCB85	ND	0.94	2.11	0.93	1.16	1.54
PCB87/115	ND	1.42	2.29	0.69	1.41	1.90
PCB89	ND	ND	ND	ND	ND	ND
PCB91	0.21	2.89	5.99	6.46	5.22	6.63
PCB92	ND	1.19	2.01	0.88	1.27	1.72
PCB95	0.58	7.64	15.04	14.54	12.45	16.67
PCB97	0.18	2.33	5.63	4.01	3.90	5.75
PCB99	ND	5.88	12.21	12.15	10.46	13.85
PCB100	ND	0.24	0.52	0.63	0.43	0.54
PCB101/90	0.47	7.88	13.80	11.65	11.41	14.71
PCB105	ND	1.29	3.35	0.96	1.59	2.44
PCB107	ND	ND	ND	ND	0.57	0.38
PCB110	0.54	8.47	14.63	10.06	11.58	14.69
PCB114	ND	ND	ND	ND	ND	ND
PCB118	0.31	4.66	11.35	6.65	7.44	10.83
PCB119	ND	0.72	1.43	1.19	1.03	1.26
PCB124	ND	ND	ND	ND	ND	ND
PCB128	ND	0.98	ND	0.78	0.97	1.24
PCB129	ND	ND	ND	ND	ND	ND
PCB130	ND	ND	ND	0.35	ND	0.66
PCB131	ND	ND	ND	ND	ND	ND
PCB132	ND	1.25	2.13	1.10	1.02	1.89
PCB134	ND	0.25	ND	0.23	ND	ND
PCB135/144	ND	1.11	1.73	1.04	1.27	1.38
PCB136	0.08	1.32	2.09	2.28	1.97	2.27
PCB137	ND	ND	ND	ND	ND	0.68
PCB138/160/163	0.38	6.44	9.96	6.30	7.16	9.32
PCB141	ND	0.80	1.40	0.81	1.05	1.50
PCB146	ND	1.27	1.73	1.22	1.45	1.83
PCB149	0.48	6.88	11.05	11.33	9.76	12.05
PCB151	ND	1.24	1.95	1.11	1.28	1.60

SITE_ID	ORT21	ORT24	ORT25	ORT25	ORT26	ORT27
FIELD_ID	LSJ98SORT21LA	LSJ98SORT24SA	LSJ98SORT25SA	LSJ98SORT25MA	LSJ98SORT26SA	LSJ98SORT27SA
PCB153	0.45	7.07	11.85	9.91	9.78	12.07
PCB156	ND	ND	ND	ND	ND	ND
PCB158	ND	0.51	0.99	0.54	0.51	0.92
PCB167	ND	ND	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	ND	1.48	2.73	1.98	1.61	2.43
PCB171	ND	0.45	0.92	0.54	0.49	0.76
PCB172	ND	0.28	ND	0.37	0.37	0.67
PCB173	ND	ND	ND	ND	ND	ND
PCB174	ND	1.40	2.61	1.77	1.63	2.83
PCB175	ND	0.06	ND	ND	0.10	ND
PCB176	ND	0.20	0.44	0.30	0.30	0.39
PCB177	ND	1.06	1.61	1.25	1.08	1.48
PCB178	ND	0.31	0.63	0.38	0.40	0.61
PCB180	0.20	3.12	5.67	4.08	4.01	5.44
PCB183	0.05	0.96	1.61	1.28	1.29	1.76
PCB184	0.09	0.07	0.25	0.09	0.08	0.20
PCB185	ND	0.16	0.40	0.19	0.16	0.35
PCB187/182	0.16	2.16	3.81	2.73	2.74	3.67
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	ND	0.19	0.36	0.32	0.17	0.20
PCB194	ND	0.62	1.29	0.90	0.86	1.33
PCB195	ND	0.36	ND	0.45	0.35	0.59
PCB197	ND	ND	ND	ND	0.07	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	ND	0.76	1.69	1.28	1.01	1.38
PCB200	ND	ND	ND	0.17	0.13	0.21
PCB201	ND	0.12	ND	0.18	0.19	0.33
PCB203/196	ND	0.70	1.59	1.19	1.03	1.30
PCB205	ND	ND	ND	ND	ND	ND
PCB206	ND	0.28	0.55	0.65	0.35	0.44
PCB207	ND	ND	ND	0.09	ND	ND
PCB209	ND	0.24	ND	0.19	0.18	0.32
Sum of 21 Congeners *	5.58	79.96	183.35	152.02	139.33	199.35
Sum of 107 Congeners	10.98	185.58	441.21	375.77	334.81	524.68

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT27	ORT27	ORT28	ORT28	ORT31	ORT35
FIELD_ID	LSJ98SORT27MA	LSJ98SORT27LA	LSJ98SORT28SA	LSJ98SORT28MA	LSJ98SORT31SA	LSJ98SORT35SA
BATCH_ID	99-019	99-019	99-019	99-019	99-019	99-019
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	0.71	ND	ND	ND	ND	ND
PCB3	1.64	ND	ND	ND	ND	ND
PCB4/10	4.92	0.99	ND	ND	ND	ND
PCB6	13.88	0.80	ND	ND	ND	ND
PCB7/9	0.80	0.11	ND	ND	ND	ND
PCB8/5	12.68	2.33	ND	0.40	ND	0.42
PCB12/13	2.30	0.15	ND	ND	ND	ND
PCB16/32	21.83	4.50	2.04	1.66	1.32	1.39
PCB17	14.09	2.86	1.58	1.30	1.09	1.06
PCB18	38.99	8.51	3.29	2.82	2.30	2.32
PCB19	2.42	0.61	ND	0.21	ND	0.28
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	0.59	ND	0.25	ND	ND
PCB24/27	4.28	0.73	0.47	0.33	ND	0.34
PCB25	10.51	0.61	1.22	0.53	ND	0.64
PCB26	12.14	1.31	1.70	0.96	ND	0.91
PCB28	31.43	6.57	4.82	3.63	2.92	3.42
PCB29	ND	ND	ND	ND	ND	ND
PCB31	33.74	6.90	3.47	2.56	2.21	2.36
PCB33/20	13.01	3.83	1.55	1.78	1.47	1.50
PCB40	5.31	1.05	1.62	1.35	4.10	1.05
PCB41/64/71	14.13	3.61	5.88	4.56	7.81	3.97
PCB42	14.64	2.42	3.46	2.21	5.11	2.28
PCB43	ND	ND	ND	ND	ND	ND
PCB44	33.57	6.13	7.72	5.88	7.81	4.96
PCB45	6.13	1.27	1.03	0.92	1.27	0.75
PCB46	5.08	0.61	0.96	0.50	ND	0.45
PCB47/75	22.22	2.62	5.01	2.94	3.69	3.17
PCB48	ND	0.90	ND	0.99	ND	ND
PCB49	52.00	6.33	11.04	6.67	13.60	7.36
PCB51	3.29	0.43	0.75	0.40	0.78	0.45
PCB52	65.28	8.93	11.85	7.68	13.21	7.78
PCB53	10.32	1.53	1.62	1.08	1.57	1.12
PCB56/60	1.94	0.88	1.75	1.51	3.07	1.10
PCB59	ND	ND	ND	ND	ND	ND
PCB63	ND	ND	ND	ND	ND	ND
PCB66	27.48	5.36	7.34	4.88	6.68	4.71
PCB70/76	32.72	6.36	7.08	5.11	7.54	4.79
PCB74	5.29	1.95	2.27	1.97	2.92	1.65
PCB82	0.64	0.16	ND	0.21	1.00	ND
PCB83	0.25	ND	ND	ND	1.01	ND
PCB84	8.81	1.13	2.47	1.59	4.79	1.61
PCB85	1.00	0.21	0.91	0.37	2.39	0.46
PCB87/115	1.18	0.29	1.08	0.40	3.44	0.78
PCB89	ND	ND	ND	ND	ND	ND
PCB91	9.24	0.89	2.70	1.68	5.19	1.86
PCB92	0.94	0.18	0.95	0.56	2.76	0.58
PCB95	21.40	2.48	6.61	4.15	14.68	4.44
PCB97	6.17	0.89	1.97	1.52	4.23	1.55
PCB99	15.79	1.75	6.07	3.51	10.80	3.99
PCB100	0.65	ND	ND	ND	0.49	ND
PCB101/90	13.82	1.93	6.91	4.29	16.82	4.60
PCB105	1.50	0.39	1.54	0.67	2.61	0.85
PCB107	0.48	ND	ND	0.23	1.01	ND
PCB110	10.44	1.57	7.38	4.63	18.55	4.96
PCB114	ND	ND	ND	ND	ND	ND
PCB118	9.75	1.63	5.13	2.59	10.18	3.27
PCB119	1.51	0.14	0.61	0.33	1.23	0.34
PCB124	ND	ND	ND	ND	ND	ND
PCB128	1.20	0.17	ND	0.50	2.75	0.51
PCB129	ND	ND	ND	ND	ND	ND
PCB130	0.45	ND	ND	ND	1.07	ND
PCB131	ND	ND	ND	ND	ND	ND
PCB132	1.29	0.17	1.27	0.43	3.89	0.68
PCB134	ND	ND	ND	0.13	0.57	ND
PCB135/144	1.16	0.13	0.94	0.43	3.14	0.56
PCB136	2.74	0.20	1.15	0.63	3.13	0.76
PCB137	ND	ND	ND	ND	ND	ND
PCB138/160/163	6.78	0.83	6.16	2.79	18.75	3.40
PCB141	1.08	0.10	0.78	0.37	2.35	0.41
PCB146	1.15	0.10	1.13	0.60	2.81	0.70
PCB149	13.09	1.07	6.71	3.62	16.78	4.05
PCB151	1.11	0.11	1.05	0.50	3.28	0.67

SITE_ID	ORT27	ORT27	ORT28	ORT28	ORT31	ORT35
FIELD_ID	LSJ98SORT27MA	LSJ98SORT27LA	LSJ98SORT28SA	LSJ98SORT28MA	LSJ98SORT31SA	LSJ98SORT35SA
PCB153	10.65	0.99	6.85	3.58	17.12	4.11
PCB156	ND	ND	ND	ND	ND	ND
PCB158	0.65	0.07	0.34	0.17	1.37	0.28
PCB167	ND	ND	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	1.98	0.18	1.17	0.55	3.64	0.70
PCB171	0.64	0.08	0.59	0.15	0.99	0.32
PCB172	0.43	ND	ND	ND	0.72	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	1.73	0.22	1.37	0.58	4.14	0.70
PCB175	ND	ND	ND	ND	0.25	ND
PCB176	0.31	ND	0.22	0.11	0.49	0.11
PCB177	1.23	0.10	1.03	0.47	3.10	0.50
PCB178	0.46	0.03	0.25	0.17	0.83	0.17
PCB180	4.67	0.37	3.33	1.49	8.16	1.85
PCB183	1.26	0.12	0.97	0.47	2.56	0.52
PCB184	0.17	0.06	0.27	0.09	0.19	0.13
PCB185	0.21	ND	0.19	0.08	0.37	0.08
PCB187/182	2.90	0.24	2.09	0.97	5.56	1.24
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.22	ND	ND	0.05	0.60	ND
PCB194	1.07	0.08	0.79	0.35	1.54	0.36
PCB195	ND	ND	ND	0.15	0.56	0.16
PCB197	ND	ND	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	1.15	0.11	0.94	0.33	1.91	0.44
PCB200	0.18	ND	ND	ND	0.23	ND
PCB201	0.22	ND	ND	ND	0.32	ND
PCB203/196	1.23	0.11	0.76	0.40	1.58	0.52
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.40	ND	0.44	0.20	0.50	0.18
PCB207	ND	ND	ND	ND	ND	ND
PCB209	0.24	ND	ND	0.15	0.46	0.15
Sum of 21 Congeners *	273.76	46.13	76.02	47.85	138.58	49.59
Sum of 107 Congeners	684.39	111.06	174.64	112.32	307.36	113.78

* PCB77 and PCB126 not included in the sum of 21 congeners

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
PCB107 - SURROGATE CORRECTED

SITE_ID	ORT36	ORT37	ORT38	ORT39	ORT40	ORT41
FIELD_ID	LSJ98SORT36SA	LSJ98SORT37SA	LSJ98SORT38SA	LSJ98SORT39SA	LSJ98SORT40SA	LSJ98SORT41SA
BATCH_ID	99-019	99-019	99-019	99-019	99-019	99-019
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	PCB107	PCB107	PCB107	PCB107	PCB107	PCB107
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
PCB1	ND	ND	ND	ND	ND	ND
PCB3	ND	ND	ND	ND	ND	ND
PCB4/10	ND	1.43	ND	1.05	.34	ND
PCB6	.25	3.59	ND	1.52	.63	ND
PCB7/9	ND	ND	ND	ND	ND	ND
PCB8/5	.39	4.53	.44	2.57	.91	ND
PCB12/13	ND	.78	ND	.43	.26	ND
PCB16/32	1.46	10.36	1.54	7.32	2.66	.35
PCB17	1.08	7.1	1.15	5.02	1.95	.39
PCB18	2.3	17.56	2.67	13.16	4.19	.72
PCB19	.32	1.35	.26	.79	.36	ND
PCB21	ND	ND	ND	ND	ND	ND
PCB22	ND	ND	ND	ND	ND	ND
PCB24/27	.37	2.27	.32	1.64	.74	ND
PCB25	.74	4.78	.56	2.09	1.33	ND
PCB26	.98	5.79	.74	2.81	1.89	ND
PCB28	3.49	17.78	3.25	13.83	6.45	.92
PCB29	ND	ND	ND	ND	ND	ND
PCB31	2.49	16.95	2.26	11.72	4.77	.66
PCB33/20	1.44	9.05	1.24	7.33	2.71	.42
PCB40	1.04	4.88	1.18	4.21	2.09	.34
PCB41/64/71	3.98	13.67	4.08	13.5	6.55	1.2
PCB42	2.47	10.09	2.35	8.55	4.5	.64
PCB43	ND	ND	ND	ND	ND	ND
PCB44	5.39	23.34	4.92	20.06	9.61	1.68
PCB45	.77	3.82	1.01	3.37	1.49	.26
PCB46	.42	2.35	.46	2.31	.66	ND
PCB47/75	3.41	13.95	2.86	9.8	5.53	.78
PCB48	ND	ND	ND	2.26	.76	ND
PCB49	7.68	30.32	6.57	23.28	12.93	1.89
PCB51	.46	1.93	.44	1.43	.74	ND
PCB52	8.4	36.68	7.26	28.44	14.58	2.16
PCB53	1.09	5.21	1.02	3.93	1.99	.21
PCB56/60	1.09	2.35	1.59	2.86	1.72	.66
PCB59	ND	ND	ND	ND	ND	ND
PCB63	ND	ND	ND	ND	ND	.16
PCB66	4.69	19.36	4.23	15.82	8.67	1.49
PCB70/76	4.82	21.54	4.39	17.87	8.77	1.31
PCB74	1.7	5.49	1.63	5.92	3.05	.6
PCB82	ND	.68	ND	.52	.43	ND
PCB83	.2	.44	.22	.41	.38	ND
PCB84	1.73	5.94	1.76	4.96	2.71	.52
PCB85	.51	.94	.49	.94	.62	ND
PCB87/115	.7	1.21	.64	1.03	.65	ND
PCB89	ND	ND	ND	ND	ND	ND
PCB91	1.96	6.16	1.84	5.18	3.07	.43
PCB92	.62	1.05	.66	1.02	.76	.23
PCB95	4.49	14.76	4.7	13.41	7.32	1.14
PCB97	1.39	4.97	1.46	4.19	2.14	.46
PCB99	3.88	11.41	3.82	10.29	6.28	.92
PCB100	ND	ND	.14	ND	ND	ND
PCB101/90	4.31	12.13	4.75	12.05	6.65	1.37
PCB105	.62	1.78	.88	1.3	1.12	.28
PCB107	.32	.65	.27	.52	.35	ND

SITE_ID	ORT36	ORT37	ORT38	ORT39	ORT40	ORT41
FIELD_ID	LSJ98SORT36SA	LSJ98SORT37SA	LSJ98SORT38SA	LSJ98SORT39SA	LSJ98SORT40SA	LSJ98SORT41SA
PCB153	3.79	8.77	4.56	8.41	5.78	1.18
PCB156	ND	ND	ND	ND	ND	ND
PCB158	0.25	0.46	0.26	0.42	0.27	ND
PCB167	ND	ND	ND	ND	ND	ND
PCB169	ND	ND	ND	ND	ND	ND
PCB170/190	0.80	1.72	0.89	1.37	0.92	ND
PCB171	0.20	0.51	0.28	0.45	0.47	ND
PCB172	0.14	0.26	0.15	0.30	ND	ND
PCB173	ND	ND	ND	ND	ND	ND
PCB174	0.81	1.42	0.82	1.42	1.11	0.23
PCB175	0.06	ND	ND	ND	ND	ND
PCB176	0.12	0.31	0.12	0.21	0.17	ND
PCB177	0.47	1.21	0.67	0.85	0.73	0.11
PCB178	0.18	0.45	0.23	0.28	0.27	ND
PCB180	1.59	4.07	1.92	3.02	2.25	0.56
PCB183	0.51	1.06	0.66	0.93	0.69	0.19
PCB184	0.08	0.27	0.10	0.13	0.09	0.16
PCB185	0.05	0.20	0.09	0.12	0.11	ND
PCB187/182	1.14	2.57	1.38	2.21	1.65	0.37
PCB189	ND	ND	ND	ND	ND	ND
PCB191	ND	ND	ND	ND	ND	ND
PCB193	0.07	0.15	0.08	0.13	0.14	ND
PCB194	0.36	0.83	0.44	0.62	0.43	ND
PCB195	0.13	0.48	0.14	0.25	0.24	ND
PCB197	ND	ND	ND	ND	ND	ND
PCB198	ND	ND	ND	ND	ND	ND
PCB199	0.45	0.91	0.42	0.73	0.51	ND
PCB200	ND	0.11	0.06	0.10	ND	ND
PCB201	0.07	0.15	0.09	0.14	0.11	ND
PCB203/196	0.43	1.06	0.52	0.77	0.56	ND
PCB205	ND	ND	ND	ND	ND	ND
PCB206	0.18	0.35	0.24	0.38	0.24	ND
PCB207	0.04	ND	ND	0.09	ND	ND
PCB209	0.14	0.18	0.18	0.20	0.15	ND
Sum of 21 Congeners *	48.69	177.02	50.45	150.24	80.24	14.34
Sum of 107 Congeners	114.82	432.35	116.37	359.42	190.75	30.66

* PCB77 and PCB126 not included in the sum of 21 congeners

Appendix E. Chlorophenolic Compound (Method 8321M) Data

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8321M- SURROGATE CORRECTED

SITE_ID	CED03	CED04	ORT02	ORT04	ORT06-1	ORT07
BATCH_ID	98-356	98-337	98-356	98-356	98-337	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8321-MOD	8321-MOD	8321-MOD	8321-MOD	8321-MOD	8321-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
2,4-Dichlorophenol	ND	ND	ND	ND	277.27	ND
2,6-Dichlorophenol	90.00	526.92	ND	ND	ND	131.72
2-Chlorophenol	675.76	757.89	263.16	508.11	292.68	540.00
2,4,5-Trichlorophenol	ND	ND	88.96	ND	ND	164.06
2,4,6-Trichlorophenol	250.00	600.00	ND	ND	ND	132.97
2,3,4,5-Tetrachlorophenol	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	4423.08	301.30	1168.18	ND	3140.63
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	170.31
2-Chloroanisole	ND	ND	272.73	ND	ND	ND
2,4-Dichloroanisole	201.92	358.46	102.99	151.52	ND	162.50
Pentachloroanisole	ND	ND	ND	ND	ND	ND
4,5-Dichloroguaiacol	43.08	ND	ND	ND	ND	ND
3,4,5-Trichloroguaiacol	ND	ND	ND	ND	ND	ND
3,4,6-Trichloroguaiacol	ND	ND	ND	ND	ND	ND
4,5,6-Trichloroguaiacol	ND	345.38	57.92	121.82	ND	165.63
Tetrachloroguaiacol	ND	ND	ND	ND	ND	ND
4-Chlorocatechol	ND	ND	ND	ND	ND	ND
3,5-Dichlorocatechol	136.35	253.08	ND	ND	ND	514.06
4,5-Dichlorocatechol	ND	ND	ND	ND	ND	ND
3,4,5-Trichlorocatechol	ND	842.31	ND	ND	ND	ND
3,4,6-Trichlorocatechol	ND	ND	ND	ND	ND	ND
Tetrachlorocatechol	ND	13961.54	1961.04	ND	4795.45	ND
Phenols	1015.76	6307.89	653.42	1676.29	569.96	4279.69
Anisoles	201.92	358.46	375.71	151.52	ND	162.50
Guaiacols	43.08	345.38	57.92	121.82	ND	165.63
Catechols	136.35	15056.92	1961.04	ND	4795.45	514.06
Total Chlorophenolics	1397.10	22068.66	3048.09	1949.62	5365.41	5121.88

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8321M- SURROGATE CORRECTED

SITE_ID	ORT14	ORT16	ORT18	ORT19	ORT20	ORT22
BATCH_ID	98-337	98-337	98-337	98-356	98-337	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8321-MOD	8321-MOD	8321-MOD	8321-MOD	8321-MOD	8321-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
2,4-Dichlorophenol	ND	ND	ND	85.29	ND	ND
2,6-Dichlorophenol	ND	ND	ND	55.31	ND	119.70
2-Chlorophenol	304.76	512.50	850.00	281.32	338.10	646.90
2,4,5-Trichlorophenol	ND	ND	ND	72.55	ND	94.09
2,4,6-Trichlorophenol	ND	ND	ND	172.90	ND	63.94
2,3,4,5-Tetrachlorophenol	ND	ND	ND	808.82	ND	ND
2,3,4,6-Tetrachlorophenol	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	1999.90	ND	1840.91
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	80.28
2-Chloroanisole	ND	ND	ND	ND	ND	ND
2,4-Dichloroanisole	ND	ND	ND	137.80	ND	149.27
Pentachloroanisole	ND	ND	ND	ND	ND	ND
4,5-Dichloroguaiacol	ND	ND	ND	24.78	ND	ND
3,4,5-Trichloroguaiacol	ND	ND	ND	133.90	ND	ND
3,4,6-Trichloroguaiacol	ND	ND	ND	ND	ND	ND
4,5,6-Trichloroguaiacol	ND	ND	ND	48.64	ND	66.59
Tetrachloroguaiacol	ND	4354.84	1669.77	ND	ND	ND
4-Chlorocatechol	ND	ND	ND	ND	ND	ND
3,5-Dichlorocatechol	ND	ND	ND	393.01	ND	620.47
4,5-Dichlorocatechol	ND	ND	ND	ND	ND	ND
3,4,5-Trichlorocatechol	ND	ND	ND	31.95	ND	ND
3,4,6-Trichlorocatechol	ND	ND	ND	ND	ND	ND
Tetrachlorocatechol	5229.17	7612.90	6837.21	ND	5588.24	ND
Phenols	304.76	512.50	850.00	3476.11	338.10	2845.82
Anisoles	ND	ND	ND	137.80	ND	149.27
Guaiacols	ND	4354.84	1669.77	207.32	ND	66.59
Catechols	5229.17	7612.90	6837.21	424.96	5588.24	620.47
Total Chlorophenolics	5533.93	12480.24	9356.98	4246.18	5926.33	3682.16

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
8321M- SURROGATE CORRECTED

SITE_ID	ORT33	ORT34	ORT39-1	ORT41
BATCH_ID	98-356	98-337	98-337	98-356
MATRIX	Sediment	Sediment	Sediment	Sediment
ANAL_MET	8321-MOD	8321-MOD	8321-MOD	8321-MOD
UNIT	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.	ug/kg, dry wt.
2,4-Dichlorophenol	ND	ND	ND	152.24
2,6-Dichlorophenol	ND	ND	ND	ND
2-Chlorophenol	206.33	476.92	635.48	421.74
2,4,5-Trichlorophenol	91.76	ND	ND	ND
2,4,6-Trichlorophenol	855.81	ND	ND	ND
2,3,4,5-Tetrachlorophenol	1950.98	ND	ND	ND
2,3,4,6-Tetrachlorophenol	147.17	ND	ND	ND
Pentachlorophenol	ND	4230.77	ND	800.00
4-Chloro-3-methylphenol	33.92	ND	ND	ND
2-Chloroanisole	ND	ND	ND	ND
2,4-Dichloroanisole	189.87	ND	219.78	189.55
Pentachloroanisole	ND	ND	ND	ND
4,5-Dichloroguaiacol	ND	ND	ND	ND
3,4,5-Trichloroguaiacol	401.61	ND	ND	ND
3,4,6-Trichloroguaiacol	ND	ND	ND	ND
4,5,6-Trichloroguaiacol	ND	ND	ND	ND
Tetrachloroguaiacol	ND	ND	ND	ND
4-Chlorocatechol	ND	ND	ND	ND
3,5-Dichlorocatechol	ND	ND	ND	ND
4,5-Dichlorocatechol	ND	ND	ND	ND
3,4,5-Trichlorocatechol	613.13	ND	ND	ND
3,4,6-Trichlorocatechol	188.43	579.49	ND	ND
Tetrachlorocatechol	ND	8179.49	7577.78	ND
Phenols	3285.97	4707.69	635.48	1373.98
Anisoles	189.87	ND	219.78	189.55
Guaiacols	401.61	ND	ND	ND
Catechols	801.56	8758.97	7577.78	ND
Total Chlorophenolics	4679.01	13466.67	8433.04	1563.53

Appendix F. Metals Data

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
MG/KG DRY WT.
200.8-MOD, 200.9-MOD & 245.5

SITE_ID	FIELD_ID	Aluminum	Antimony	Arsenic	Berylium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
CED01	LSJ98SCED01SA	54800	1.200	24.50	0.340	3.830	96.0	5.96	83.1	28900	268.0	23.7	107	0.921	22.8	3.28	5.390	0.376	15.70	72.3	2050.0
CED01	LSJ98SCED01MA	33500	0.837	6.73	0.382	2.890	56.3	3.88	38.9	17900	70.0	20.5	101	1.210	12.9	1.90	1.370	0.290	13.10	43.8	241.0
CED02	LSJ98SCED02SA	48000	1.130	15.10	0.777	3.640	93.9	7.42	104.0	36600	384.0	31.8	151	0.918	23.9	2.30	4.040	0.464	14.90	69.8	1430.0
CED03	LSJ98SCED03SA	37700	0.686	6.23	1.060	2.070	52.6	5.40	65.5	21400	176.0	26.5	143	0.738	16.5	1.70	1.060	0.424	6.88	46.2	608.0
CED03	LSJ98SCED03MA	54700	0.963	6.83	0.744	2.580	68.6	6.12	92.5	25100	258.0	38.7	172	0.835	19.6	1.61	1.440	0.441	9.38	57.9	731.0
CED03	LSJ98SCED03LA	47100	1.120	11.70	0.952	3.670	94.3	8.02	107.0	29200	390.0	46.3	158	1.180	25.7	1.98	2.140	0.548	13.00	71.2	1440.0
CED04	LSJ98SCED04SA	60600	0.846	8.61	0.796	3.030	81.0	6.54	88.1	29100	315.0	52.1	175	0.953	22.6	1.64	1.370	0.498	12.20	65.8	796.0
CED04	LSJ98SCED04MA	57900	1.000	13.90	0.930	3.670	105.0	8.25	98.2	36000	420.0	51.9	192	1.120	27.4	2.11	2.190	0.623	14.80	77.6	1310.0
CED04	LSJ98SCED04LA	45600	0.537	5.52	0.607	1.660	64.4	5.29	37.3	26700	92.3	47.5	160	1.150	16.2	1.42	0.816	0.449	7.60	59.4	353.0
CED05	LSJ98SCED05SA	17100	0.208	1.73	1.610	0.559	22.6	2.56	13.7	15300	58.9	13.5	96	0.294	7.3	0.81	0.263	0.226	3.04	27.5	151.0
CED06	LSJ98SCED06SA	28300	0.584	5.50	1.130	1.330	57.5	4.60	54.0	26500	144.0	23.0	143	0.638	15.1	1.49	0.868	0.355	7.54	43.7	449.0
CED06	LSJ98SCED06MA	24900	0.195	2.96	0.533	0.562	42.4	3.63	15.8	21800	46.2	18.7	115	0.576	12.0	1.27	0.393	0.251	3.23	33.2	116.0
CED06	LSJ98SCED06LA	25900	0.038	3.50	0.862	ND	37.9	4.32	4.9	23700	9.6	25.4	96	0.098	10.9	1.66	0.042	0.231	0.72	34.0	22.1
CED07	LSJ98SCED07SA	31400	0.355	5.16	0.845	1.650	66.4	4.72	56.8	30200	157.0	24.7	152	1.140	16.6	1.68	1.110	0.369	6.71	46.3	423.0
CED07	LSJ98SCED07MA	31800	0.315	5.22	0.483	1.450	63.2	4.59	33.5	29600	116.0	25.0	128	1.560	16.4	1.63	0.943	0.338	6.25	43.7	340.0
CED07	LSJ98SCED07LA	29400	0.063	3.21	0.705	ND	42.1	4.20	5.0	24900	10.4	25.3	134	0.128	11.0	1.50	0.039	0.288	0.83	40.6	28.3
CED08	LSJ98SCED08SA	30600	0.461	2.85	0.413	1.290	48.9	3.95	45.8	24300	84.1	25.0	127	0.538	14.0	2.13	0.471	0.318	5.12	42.5	286.0
CED08	LSJ98SCED08MA	21500	0.245	2.52	1.230	0.621	37.4	3.03	26.5	20500	87.6	16.9	108	0.549	9.7	1.21	2.020	0.233	3.73	29.9	209.0
CED09	LSJ98SCED09SA	35900	0.588	5.01	0.360	1.430	51.7	4.02	52.5	21300	149.0	27.0	126	0.530	15.0	2.01	0.683	0.295	5.34	45.1	523.0
CED09	LSJ98SCED09MA	29400	0.566	3.50	0.540	1.510	50.3	3.74	51.2	22200	174.0	27.8	129	0.648	14.4	1.80	0.678	0.302	5.96	42.4	488.0
ORT01	LSJ98SORT01SA	38300	0.279	5.36	2.150	1.430	58.2	4.06	21.5	29100	52.0	32.0	170	0.642	13.8	1.51	0.799	0.343	4.14	52.8	112.0
ORT01	LSJ98SORT01MA	42400	0.243	5.53	2.680	1.310	55.4	3.97	16.6	31500	35.9	33.6	156	0.575	13.3	1.70	0.677	0.360	4.19	53.3	92.1
ORT01	LSJ98SORT01LA	42400	0.109	3.89	2.870	0.194	51.0	4.30	5.2	32600	11.4	32.2	157	0.045	12.5	2.02	0.107	0.350	1.29	55.9	41.1
ORT02	LSJ98SORT02SA	46100	0.244	3.81	1.450	0.503	54.8	4.86	10.5	27200	16.8	38.6	180	0.482	14.4	1.56	0.367	0.420	1.60	59.9	52.6
ORT02	LSJ98SORT02MA	45300	0.218	4.03	0.747	0.972	56.3	4.62	17.0	26900	34.8	46.5	185	0.755	14.8	1.70	0.474	0.380	2.82	59.0	313.0
ORT02	LSJ98SORT02LA	52800	0.146	4.48	0.777	0.314	61.1	5.29	9.3	30500	14.4	52.9	207	0.549	15.9	1.81	0.210	0.428	1.31	67.8	44.0
ORT03	LSJ98SORT03SA	42900	0.099	4.18	2.690	0.215	50.8	4.24	5.3	32200	11.7	33.5	160	0.057	12.7	1.97	0.108	0.337	1.24	54.6	58.2
ORT03	LSJ98SORT03MA	45000	0.100	4.25	2.360	0.227	53.1	4.55	5.2	33800	11.4	37.5	155	0.059	13.7	1.70	0.119	0.360	1.24	56.5	39.8
ORT03	LSJ98SORT03LA	44400	0.087	4.05	3.440	0.197	53.3	4.57	5.3	32800	11.5	36.2	147	0.055	13.6	1.45	0.105	0.380	1.28	56.7	41.7
ORT04	LSJ98SORT04SA	45400	0.239	4.35	1.270	0.661	54.6	4.92	13.8	26900	23.5	39.8	172	0.598	15.2	1.71	0.386	0.420	1.92	58.7	65.1
ORT04	LSJ98SORT04MA	54100	0.370	5.87	0.653	2.210	73.0	5.06	87.2	28600	75.4	48.8	205	1.800	18.0	1.85	1.110	0.384	5.50	63.5	187.0
ORT04	LSJ98SORT04LA	57500	0.173	3.95	0.872	0.278	56.0	4.85	8.5	28600	18.4	51.4	186	0.454	15.0	1.59	0.192	0.373	1.13	61.3	42.7
ORT05	LSJ98SORT05SA	41400	0.189	4.36	2.320	0.762	53.6	4.30	18.9	35200	40.7	35.2	165	0.499	13.6	2.02	0.456	0.345	3.06	54.6	108.0
ORT05	LSJ98SORT05MA	48300	0.100	3.74	2.450	0.253	55.2	4.66	6.0	36000	13.5	40.0	156	0.072	14.6	1.48	0.106	0.382	1.37	59.3	42.9
ORT05	LSJ98SORT05LA	47100	0.095	3.21	2.430	0.233	55.6	5.02	5.7	34800	12.3	37.8	133	0.050	14.5	1.26	0.103	0.402	1.45	60.5	44.8
ORT06	LSJ98SORT06SA	39700	0.214	4.89	2.680	0.835	61.8	4.09	14.5	28300	28.3	34.9	166	0.383	13.2	1.74	0.451	0.298	2.96	56.0	84.4
ORT06	LSJ98SORT06MA	41900	0.109	4.20	3.080	0.186	59.4	4.39	5.4	32300	10.8	40.1	159	0.067	13.5	1.26	0.124	0.329	1.28	60.0	43.3
ORT06	LSJ98SORT06LA	42500	0.094	3.94	3.100	0.181	54.8	4.45	5.2	31100	10.5	36.7	164	0.047	13.2	1.44	0.089	0.339	1.22	58.2	43.8
ORT06-1	LSJ98SORT061SA	42000	0.230	3.89	0.803	0.933	53.8	4.32	16.1	24600	30.4	43.5	182	0.345	13.8	1.60	0.501	0.351	2.39	55.6	77.4
ORT06-1	LSJ98SORT061MA	45900	0.274	5.05	0.749	1.040	68.0	4.88	17.9	29300	30.2	44.3	195	0.448	15.9	1.63	0.518	0.387	3.12	62.1	128.0
ORT06-1	LSJ98SORT061LA	50300	0.169	4.11	0.973	0.301	66.1	5.36	9.3	30900	12.9	47.6	239	0.093	16.4	1.46	0.238	0.382	1.38	69.4	111.0
ORT07	LSJ98SORT07SA	48800	0.617	7.37	1.410	1.630	74.9	5.92	54.9	28400	90.2	39.9	270	1.040	20.9	1.94	1.080	0.447	5.51	70.3	229.0
ORT07	LSJ98SORT07MA	53400	0.438	7.62	0.936	1.300	80.0	6.30	59.2	31100	93.1	55.3	294	1.080	21.9	2.14	0.957	0.459	5.47	76.1	232.0
ORT07	LSJ98SORT07LA	49100	0.457	7.18	0.966	1.710	77.3	5.93	48.6	29400	94.0	52.6	264	1.040	20.4	1.59	1.180	0.424	5.35	71.9	214.0
ORT08	LSJ98SORT08SA	48000	0.341	5.47	0.506	1.080	65.7	4.63	24.9	34100	47.0	35.9	189	0.588	16.7	2.67	0.903	0.352	3.98	58.8	172.0
ORT08	LSJ98SORT08MA	43600	0.404	3.86	0.154	0.680	53.5	3.97	14.8	25600	28.7	28.0	149	0.421	13.6	1.83	0.527	0.315	2.82	49.8	78.9
ORT08	LSJ98SORT08LA	53700	0.245	4.05	0.814	0.269	60.7	5.31	7.6	31100	11.4	35.9	148	0.106	15.1	1.56	0.035	0.386	1.43	62.9	41.4
ORT09	LSJ98SORT09SA	31500	0.343	6.37	2.700	1.700	58.7	4.10	28.5	29300	63.2	33.3	170	1.030	13.8	1.53	0.911	0.351	6.18	56.1	234.0
ORT09	LSJ98SORT09MA	40200	0.192	4.40	2.730	0.516	49.3	3.89	14.1	29500	34.3	34.4	141	0.398	12.5	1.25	0.344	0.344	3.10	52.0	79.9
ORT09	LSJ98SORT09LA	35700	0.088	3.51	2.330	0.143	43.1	3.47	4.1	26200	9.3	30.4	120	0.044	10.5	1.47	0.079	0.270	1.00	47.8	32.0
ORT10	LSJ98SORT10SA	41200	0.276	6.50	2.400	1.360	59.5	4.40	37.0	31700	69.8	32.2	205	1.060	14.8	1.73	0.942	0.359	5.19	55.0	189.0
ORT10	LSJ98SORT10MA	46000	0.316	6.26	2.850	2.170	73.8	5.01	47.2	36700	106.0	36.4	211	1.480	18.2	2.28	1.400	0.407	7.16	61.7	214.0
ORT10	LSJ98SORT10LA	40000	0.100	3.59	2.920	0.212	48.1	4.00	5.2	32000	11.2	35.6	133	0.069	12.2	1.28	0.114	0.335	1.23	52.3	38.5
ORT11	LSJ98SORT11SA	46100	0.299	6.78	2.340	1.040	63.1	4.95	26.0	33100	55.1	33.2	199	0.492	16.0	1.65	0.646	0.400	4.27	63.5	219.0
ORT11	LSJ98SORT11MA	46300	0.340	6.77	2.360	2.090	67.7	4.64	24.3	34200	59.6	34.0	177	1.240	15.7	1.63	0.926	0.405	5.80	59.9	124.0
ORT11	LSJ98SORT11LA	44000	0.109	4.23	2.220	0.212	50.4	4.39	5.4	32200	12.0	31.9	151	0.075	12.8	1.20	0.132	0.379	1.31	55.1	42.2
ORT12	LSJ98SORT12SA	47300	0.293	6.59	2.070	0.906	62.0	4.85	44.6	35400	62.7	34.8	185	0.571	15.8	1.84	0.629	0.403	4.36	61.3	155.0
ORT12	LSJ98SORT12MA	47300	0.363	8.60	2.460	1.400	70.1	5.22	66.3	35000	99.9	35.6	223	0.896	18.4	1.68	0.942	0.408	6.70	65.0	225.0

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
MG/KG DRY WT.
200.8-MOD, 200.9-MOD & 245.5

SITE_ID	FIELD_ID	Aluminum	Antimony	Arsenic	Berylium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
ORT12	LSJ98SORT12LA	47900	0.105	4.07	2.100	0.258	55.1	4.69	5.4	35000	12.0	36.0	142	0.083	14.2	1.87	0.099	0.389	1.35	61.4	41.5
ORT13	LSJ98SORT13SA	48100	0.318	6.66	2.970	1.320	66.1	5.06	38.2	34500	82.7	36.9	207	0.638	17.1	1.76	0.791	0.403	5.30	63.3	248.0
ORT13	LSJ98SORT13MA	47700	0.443	7.79	2.650	2.760	75.0	4.87	31.8	34400	82.6	37.9	178	1.500	17.2	1.71	1.370	0.395	7.27	60.6	161.0
ORT13	LSJ98SORT13LA	47100	0.105	4.21	2.370	0.241	53.0	4.58	5.4	34200	11.6	37.9	148	0.061	13.8	1.49	0.098	0.362	1.30	55.9	41.0
ORT14	LSJ98SORT14SA	43100	0.162	3.20	0.833	0.413	51.5	4.59	10.9	27000	17.5	51.8	167	0.161	13.7	1.46	0.289	0.362	1.59	55.9	47.6
ORT14	LSJ98SORT14MA	48900	0.148	4.21	1.100	0.322	60.4	5.03	9.2	28900	13.5	42.5	191	0.121	14.9	1.66	0.232	0.393	1.38	60.8	133.0
ORT14	LSJ98SORT14LA	47400	0.174	3.45	1.050	0.330	62.7	5.24	8.5	31400	12.7	43.8	167	0.115	15.6	1.61	0.210	0.403	1.27	60.6	108.0
ORT15	LSJ98SORT15SA	40900	0.501	10.20	1.050	1.250	68.5	5.33	101.0	29300	74.3	33.7	249	0.751	18.5	2.84	1.160	0.351	5.51	60.3	315.0
ORT15	LSJ98SORT15MA	44000	0.518	7.36	0.797	1.850	76.6	5.20	98.4	31900	122.0	33.5	210	2.300	19.7	2.78	1.680	0.389	7.54	59.8	288.0
ORT15	LSJ98SORT15LA	57400	0.666	7.81	0.854	3.160	86.3	5.15	45.6	31000	86.0	41.5	157	4.290	18.9	2.96	2.970	0.384	8.08	62.4	206.0
ORT16	LSJ98SORT16SA	48500	0.258	4.09	0.683	0.844	60.1	4.84	31.7	27400	49.1	52.0	179	0.607	15.9	1.67	0.574	0.376	3.09	59.4	127.0
ORT16	LSJ98SORT16MA	52900	0.436	7.21	1.100	1.730	83.2	5.86	78.1	32600	103.0	47.0	265	1.300	21.0	1.79	1.060	0.472	6.92	68.7	442.0
ORT16	LSJ98SORT16LA	48700	0.166	3.41	1.170	0.394	63.2	5.28	9.3	31200	12.4	48.4	162	0.084	15.8	1.65	0.235	0.391	1.24	62.2	105.0
ORT18	LSJ98SORT18SA	40400	0.303	3.73	0.679	0.908	50.2	4.36	29.0	23900	56.5	42.6	185	0.536	14.1	1.29	0.501	0.323	3.28	51.0	140.0
ORT18	LSJ98SORT18MA	37700	0.347	5.17	0.847	1.230	60.2	4.29	45.0	23900	78.3	33.9	204	0.803	15.4	1.67	0.770	0.360	4.79	51.0	221.0
ORT18	LSJ98SORT18LA	44400	0.138	3.98	0.836	0.329	57.5	4.79	8.4	29800	11.4	43.7	177	0.113	14.4	1.46	0.194	0.349	1.25	56.7	109.0
ORT19	LSJ98SORT19B	11900	0.181	2.95	0.016	0.300	20.0	1.85	89.8	9260	62.0	16.0	126	2.460	4.7	0.49	0.271	0.135	1.91	19.3	189.0
ORT19	LSJ98SORT19A	11200	0.497	2.79	ND	0.291	11.0	1.48	93.9	7450	41.7	13.7	105	1.730	4.1	0.52	0.260	0.109	3.93	16.3	79.1
ORT20	LSJ98SORT20SA	38700	0.186	3.33	0.590	0.291	41.4	4.23	12.5	23900	18.3	43.7	148	0.105	12.3	1.26	0.191	0.308	1.16	48.4	47.1
ORT20	LSJ98SORT20MA	48400	0.127	3.80	0.782	0.322	64.3	5.28	9.3	31700	12.4	51.7	178	0.103	15.8	1.49	0.205	0.385	1.32	60.7	101.0
ORT20	LSJ98SORT20LA	50900	0.162	4.29	0.993	0.371	65.0	5.76	9.0	32700	13.0	48.1	180	0.084	16.4	1.47	0.207	0.420	1.28	66.9	103.0
ORT21	LSJ98SORT21SA	32400	0.259	4.63	1.270	0.855	56.9	3.98	30.3	25900	69.5	25.2	154	0.822	13.9	1.69	0.704	0.286	3.95	45.2	137.0
ORT21	LSJ98SORT21MA	35000	0.358	4.91	1.270	1.650	71.2	4.32	31.6	28200	92.3	32.1	150	1.700	16.2	1.84	1.660	0.322	5.39	50.9	168.0
ORT21	LSJ98SORT21LA	28000	0.094	3.10	1.210	ND	41.2	3.63	6.5	23700	17.2	23.3	106	0.137	10.4	1.45	0.257	0.244	1.13	38.0	35.4
ORT22	LSJ98SORT22B	42100	0.381	7.05	0.696	1.510	68.2	5.28	92.7	28900	89.9	46.8	283	0.735	17.6	1.48	0.758	0.351	5.09	60.4	526.0
ORT22	LSJ98SORT22A	32400	0.425	5.97	0.995	1.040	40.0	3.93	68.8	20200	67.5	28.1	194	2.620	12.9	1.30	0.697	0.317	3.93	43.8	206.0
ORT23	LSJ98SORT23SA	30300	0.246	4.61	1.170	0.580	56.3	4.09	26.3	27600	51.5	34.5	151	0.698	13.7	1.47	0.474	0.262	3.02	46.8	189.0
ORT23	LSJ98SORT23MA	32900	0.137	3.69	0.633	0.310	53.5	4.15	13.7	28400	32.3	28.5	135	0.715	13.1	1.90	0.270	0.293	2.41	46.1	73.8
ORT23	LSJ98SORT23LA	24200	0.074	2.44	0.631	ND	37.4	3.45	4.6	21600	9.3	25.3	107	0.112	9.4	1.27	0.270	0.222	0.79	34.5	26.5
ORT24	LSJ98SORT24SA	37200	0.353	6.61	1.220	1.010	66.4	4.71	50.3	29700	89.0	31.7	195	0.885	16.8	1.89	0.851	0.328	5.09	53.4	233.0
ORT24	LSJ98SORT24MA	32400	0.275	3.95	1.350	0.400	59.0	4.39	8.2	27500	14.8	29.0	145	0.217	13.7	1.47	0.077	0.368	1.51	55.2	38.2
ORT24	LSJ98SORT24LA	26200	0.316	2.06	1.100	0.383	47.2	3.99	5.9	24200	10.1	23.0	126	0.094	11.9	1.34	0.049	0.425	1.11	44.6	24.7
ORT25	LSJ98SORT25SA	34900	0.797	6.95	1.390	1.730	80.6	5.77	85.3	31100	133.0	30.7	228	0.746	20.1	2.25	1.180	0.508	6.58	67.2	520.0
ORT25	LSJ98SORT25MA	31300	0.504	5.56	1.550	1.730	76.9	5.11	59.2	30600	130.0	32.2	179	1.280	19.1	2.05	1.260	0.460	6.41	60.4	262.0
ORT25	LSJ98SORT25LA	34700	0.312	2.76	1.420	0.339	54.8	5.14	7.0	28300	12.1	31.0	117	0.083	14.1	1.21	0.055	0.442	1.23	53.5	33.2
ORT26	LSJ98SORT26SA	30700	0.560	5.38	1.160	1.570	70.8	5.04	58.7	30300	107.0	28.2	203	0.952	18.0	1.89	0.953	0.474	5.80	57.6	251.0
ORT26	LSJ98SORT26MA	30800	0.582	4.51	0.894	0.655	55.1	4.44	12.8	27300	29.0	23.2	138	0.468	13.6	1.47	0.242	0.462	2.63	51.2	51.6
ORT26	LSJ98SORT26LA	24800	0.268	3.41	0.764	0.339	47.6	4.04	5.9	24800	10.5	26.2	125	0.131	12.3	1.74	0.048	0.376	1.09	45.5	26.5
ORT27	LSJ98SORT27SA	44700	0.649	6.12	0.702	1.740	71.4	4.84	71.4	36100	133.0	31.2	191	1.090	18.7	2.60	1.390	0.375	7.77	52.4	587.0
ORT27	LSJ98SORT27MA	42800	0.462	6.27	0.600	1.810	73.9	5.22	60.7	37300	120.0	32.7	176	1.290	19.9	2.32	1.370	0.403	8.24	54.9	404.0
ORT27	LSJ98SORT27LA	18700	0.130	2.33	0.018	0.191	20.1	3.99	4.8	12700	8.6	15.9	84	0.132	5.4	1.10	0.056	0.163	0.78	20.4	26.7
ORT28	LSJ98SORT28SA	24300	0.472	7.54	0.764	1.170	58.2	4.37	51.4	25200	76.9	27.2	205	0.650	15.5	2.04	0.706	0.405	4.27	50.9	327.0
ORT28	LSJ98SORT28MA	25100	0.374	4.35	0.953	1.010	57.4	4.17	22.2	26400	61.5	29.2	136	0.758	14.0	1.83	0.608	0.398	3.57	49.7	116.0
ORT28	LSJ98SORT28LA	27000	0.243	3.09	1.150	0.346	52.7	4.50	6.3	27500	11.9	27.9	110	0.109	13.6	1.70	0.225	0.389	1.19	49.6	31.1
ORT29	LSJ98SORT29SA	44400	0.339	2.09	0.572	1.110	55.9	4.31	27.8	26600	57.3	34.3	151	0.737	15.9	1.83	0.625	0.299	4.17	49.2	125.0
ORT29	LSJ98SORT29MA	43200	0.252	3.41	0.527	0.327	45.8	4.08	10.1	25800	17.9	32.4	120	0.277	13.0	1.98	0.130	0.291	2.02	45.4	49.4
ORT29	LSJ98SORT29LA	36100	0.240	2.51	0.288	0.199	37.4	4.16	5.9	24300	8.3	25.2	132	0.069	11.1	1.57	0.029	0.248	0.95	39.3	25.2
ORT30	LSJ98SORT30SA	15000	0.093	1.36	1.330	0.139	18.5	1.48	4.9	10600	10.1	11.5	100	0.101	4.3	0.41	0.107	0.137	1.07	26.8	75.5
ORT30	LSJ98SORT30MA	20100	0.075	1.29	1.820	0.070	24.7	1.86	2.3	14100	6.1	15.4	102	0.031	5.7	0.62	0.044	0.165	0.69	33.4	22.5
ORT30	LSJ98SORT30LA	38400	0.094	3.73	2.350	0.156	45.5	3.66	4.3	28200	10.1	26.7	149	0.055	10.9	1.43	0.097	0.314	1.15	50.9	37.5
ORT31	LSJ98SORT31SA	18500	0.570	5.07	0.935	1.650	56.8	3.62	42.2	21100	243.0	21.5	172	0.896	14.3	1.48	2.360	0.441	5.36	47.8	274.0
ORT31	LSJ98SORT31MA	19300	0.295	3.24	1.390	0.490	41.2	3.11	15.4	20100	34.3	19.1	129	0.444	9.6	1.38	0.198	0.418	3.04	38.7	87.7
ORT31	LSJ98SORT31LA	5710	0.139	1.40	ND	0.160	13.8	1.14	2.3	8200	4.5	3.6	100	0.094	2.7	0.64	0.020	0.162	0.41	13.4	9.8
ORT32	LSJ98SORT32SA	37100	0.522	6.60	0.906	1.210	64.0	4.52	42.4	24200	98.1	25.7	217	0.551	15.7	1.65	1.240	0.437	5.03	56.2	187.0
ORT32	LSJ98SORT32MA	30000	0.265	3.33	0.694	0.374	45.0	3.14	9.5	20400	22.6	19.0	119	0.303	10.1	1.49	0.194	0.399	2.41	42.7	48.0
ORT32	LSJ98SORT32LA	20300	0.223	2.19	0.515	0.271	33.0	2.40	3.9	14600	8.6	14.1	113	0.062	7.0	0.86	0.145	0.301	0.81	31.4	22.3
ORT33	LSJ98SORT33B	12500	0.349	2.08	1.950	0.597	21.1	1.76	22.5	8680	82.1	15.9	110	0.087	5.3	0.49	0.278	0.144	2.18	23.2	279.0
ORT33	LSJ98SORT33A	12400	0.317	1.53	ND	0.545	12.4	1.49	21.0	7460	91.0	14.7	91	0.091	4.9	ND	0.224	0.143	2.26	20.4	155.0

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
MG/KG DRY WT.
200.8-MOD, 200.9-MOD & 245.5

SITE_ID	FIELD_ID	Aluminum	Antimony	Arsenic	Berylium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
ORT34	LSJ98SORT34SA	41100	0.304	3.31	0.719	1.060	53.8	4.73	33.1	27200	66.2	50.0	172	0.587	15.2	1.44	0.551	0.349	3.94	53.0	181.0
ORT34	LSJ98SORT34MA	45100	0.233	3.74	0.741	0.667	56.5	4.87	14.0	28300	25.4	45.9	167	0.363	14.5	1.46	0.346	0.345	2.70	56.2	113.0
ORT35	LSJ98SORT35SA	26000	0.258	5.09	0.806	0.478	48.3	3.65	28.3	23500	53.2	27.2	139	0.582	12.3	1.67	0.375	0.232	3.15	40.4	140.0
ORT35	LSJ98SORT35MA	26200	0.255	7.11	0.779	0.868	53.6	3.78	46.9	25100	80.7	29.9	163	0.782	14.1	2.13	0.673	0.243	4.51	42.6	216.0
ORT35	LSJ98SORT35LA	24100	0.119	2.34	0.552	ND	34.5	3.11	46.3	21100	9.8	21.6	104	0.129	8.6	1.04	0.038	0.191	0.81	32.9	25.3
ORT36	LSJ98SORT36SA	35500	0.390	5.12	0.595	1.020	57.1	4.36	32.1	26400	64.2	26.2	159	0.547	14.8	1.92	0.554	0.428	3.73	50.1	148.0
ORT36	LSJ98SORT36MA	36900	0.356	5.22	1.200	0.895	55.7	4.38	16.9	25900	40.8	29.7	134	0.598	14.0	1.87	0.464	0.408	3.36	51.0	91.6
ORT36	LSJ98SORT36LA	32600	0.238	3.11	0.951	0.359	47.1	4.04	5.7	25200	11.0	27.9	113	0.096	12.4	1.50	0.055	0.372	1.09	45.7	30.1
ORT37	LSJ98SORT37SA	30300	0.534	5.13	0.836	1.270	63.5	4.68	48.2	30300	101.0	25.5	166	0.917	16.3	1.85	0.649	0.510	5.42	48.3	248.0
ORT37	LSJ98SORT37MA	25300	0.175	3.00	0.607	0.089	40.3	3.35	9.9	22800	23.1	23.6	109	0.384	10.3	1.46	0.168	0.232	1.56	35.5	63.3
ORT37	LSJ98SORT37LA	25800	0.134	2.98	0.989	0.099	41.0	3.57	8.0	23700	17.5	25.0	110	0.196	10.4	1.45	0.091	0.230	1.12	36.9	48.6
ORT38	LSJ98SORT38SA	51100	0.354	7.89	2.340	1.710	60.8	4.60	29.1	32000	71.3	33.0	142	1.380	15.4	1.65	0.792	0.372	6.65	59.8	154.0
ORT38	LSJ98SORT38MA	43100	0.192	4.93	1.860	0.635	49.6	4.41	10.3	32000	26.4	32.8	123	0.441	13.1	1.46	0.249	0.312	2.44	52.8	65.4
ORT39	LSJ98SORT39SA	52000	0.442	4.53	0.367	1.730	77.1	5.03	32.2	29900	79.6	31.4	134	1.680	19.5	2.06	1.030	0.353	5.91	57.6	222.0
ORT39	LSJ98SORT39MA	49600	0.383	3.25	0.375	1.010	55.0	4.67	16.5	28100	33.7	29.5	129	0.836	14.9	2.28	0.392	0.280	3.70	50.2	108.0
ORT39-1	LSJ98SORT391SA	43900	0.260	3.74	0.656	0.976	53.0	4.96	21.7	27600	52.7	54.0	143	0.562	15.8	1.41	0.462	0.361	3.15	54.3	145.0
ORT39-1	LSJ98SORT391MA	51600	0.390	5.42	0.932	1.790	74.8	5.50	32.7	31300	77.5	51.9	168	1.350	19.5	1.79	0.895	0.405	5.49	64.2	284.0
ORT39-1	LSJ98SORT391LA	45500	0.157	3.18	0.892	0.454	53.9	5.20	8.4	30200	11.3	50.6	151	0.103	14.9	1.28	0.184	0.310	1.14	56.1	87.8
ORT40	LSJ98SORT40SA	46200	0.289	4.78	3.180	1.460	56.9	4.40	41.8	30100	98.4	34.0	147	0.725	16.2	1.44	0.712	0.331	6.13	54.2	276.0
ORT40	LSJ98SORT40MA	46300	0.031	2.76	3.190	1.060	51.4	4.55	14.7	32200	38.4	36.4	129	0.631	13.9	1.45	0.326	0.335	3.00	52.7	92.6
ORT40	LSJ98SORT40LA	42600	0.127	3.61	3.090	0.275	44.5	4.45	5.1	32400	10.5	36.7	119	0.073	12.7	1.49	0.193	0.297	1.16	50.6	36.3
ORT41	LSJ98SORT41SA	37700	0.315	3.02	1.190	0.647	40.0	4.29	19.2	23900	28.7	37.5	115	0.728	13.0	1.71	0.325	0.335	1.99	44.2	80.3
ORT41	LSJ98SORT41MA	42400	0.356	3.87	0.746	1.150	47.3	4.72	20.4	25700	61.9	49.3	131	1.120	15.3	1.95	0.455	0.321	4.06	51.9	145.0
ORT41	LSJ98SORT41LA	49700	0.177	2.54	0.648	0.343	41.5	4.70	7.6	27100	11.5	55.6	136	0.580	13.2	1.76	0.150	0.295	0.92	50.0	49.7

Appendix G. TOC, Grain Size, Moisture Content, Total Solids, and Total Volatile Solids Data

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED01	CED01	CED01-1	CED02
		FIELD_ID	LSJ98SCED01SA	LSJ98SCED01MA	LSJ99SCED011D	LSJ98SCED02SA
ANAL_MET	**UNIT**	**PARAMETER**				
SM17 2540G	% of wet weight	PERCENT MOISTURE	64.8	66.6	74.7	71.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	35.2	33.4	25.3	28.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	16.2	16.8	13.1	21.8
SW846 9060	mg / kg	TOC	65600.0	73200.0	55700.0	107000.0
Folk 1994	% of dry volume	PERCENT SAND	19.8	45.0	31.9	25.6
Folk 1994	% of dry volume	PERCENT SILT	56.5	42.1	61.4	61.6
Folk 1994	% of dry volume	PERCENT CLAY	23.7	12.9	6.6	12.9
Folk 1994	% of dry volume	PERCENT MUD	80.2	55.0	68.0	74.5
Coulter 1994	um	MEAN	14.5	46.8	32.2	24.0
Coulter 1994	um	MEDIAN	11.3	41.7	29.5	19.9
Coulter 1994	um	MODE	7.1	8.5	21.7	19.8
Coulter 1994	um	STDDEV	6.0	8.4	4.2	5.4
Coulter 1994	-	SKEWNESS	0.5	0.0	ND	0.3
Coulter 1994	-	KURTOSIS	-0.2	-1.1	-0.1	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	0.5	0.2	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	1.6	0.7	0.4	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	2.5	1.2	0.6	1.1
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	3.1	1.6	0.8	1.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	3.9	2.1	1.0	2.0
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	5.2	3.0	1.5	3.1
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	6.9	4.1	2.3	4.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	8.2	5.2	3.5	6.0
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	8.9	5.9	5.1	7.4
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.6	5.9	6.8	8.2
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	8.2	5.8	8.9	9.0
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	7.7	5.7	10.5	9.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	6.0	4.9	10.1	8.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.7	4.4	8.9	7.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.2	4.3	7.7	6.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	3.4	4.0	6.2	4.5
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	2.7	4.3	5.6	3.3
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.4	5.5	7.1	2.7
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.3	5.8	6.4	2.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.8	4.3	3.1	2.7
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.1	3.5	1.0	3.4
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	2.0	3.1	0.5	3.5
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.8	4.4	1.0	2.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.4	5.5	1.0	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	4.6	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	6.0			7.0
Coulter 1994	um	INORG MEDIAN	6.0			7.0
Coulter 1994	um	INORG MODE	7.0			9.0
Coulter 1994	um	INORG STD DEV	3.3			3.1
Coulter 1994	-	INORG SKEWNESS	0.5			0.3
Coulter 1994	-	INORG KURTOSIS	0.8			0.8

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED03	CED03	CED03	CED04
		FIELD_ID	LSJ98SCED03SA	LSJ98SCED03MA	LSJ98SCED03LA	LSJ98SCED04SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	74.8	75.1	73.8	80.6
SM17 2540G	% of wet weight	TOTAL SOLIDS	25.2	24.9	26.2	19.4
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	19.2	15.8	16.6	23.4
SW846 9060	mg / kg	TOC	112000.0	124000.0	128000.0	142000.0
Folk 1994	% of dry volume	PERCENT SAND	36.7	27.7	22.9	15.9
Folk 1994	% of dry volume	PERCENT SILT	56.3	64.1	66.5	73.8
Folk 1994	% of dry volume	PERCENT CLAY	7.1	8.3	10.6	10.3
Folk 1994	% of dry volume	PERCENT MUD	63.4	72.4	77.1	84.1
Coulter 1994	um	MEAN	36.5	27.7	22.1	18.6
Coulter 1994	um	MEDIAN	33.1	24.7	19.9	18.4
Coulter 1994	um	MODE	19.8	19.8	16.4	18.0
Coulter 1994	um	STDDEV	4.9	4.5	4.4	3.6
Coulter 1994	-	SKEWNESS	0.1	0.3	0.3	0.1
Coulter 1994	-	KURTOSIS	-0.3	0.2	0.2	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.5	0.6	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.7	1.0	0.9
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.8	0.9	1.2	1.2
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.3	1.6	1.6
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.6	1.9	2.4	2.3
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.5	2.9	3.7	3.6
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	3.8	4.4	5.4	5.3
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	5.3	6.2	7.4	7.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	6.8	7.9	8.9	9.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	8.3	9.6	10.3	11.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	9.0	10.4	10.5	12.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	8.3	9.4	9.1	10.9
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	7.6	8.4	7.9	9.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.2	7.7	7.1	7.6
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.7	6.7	5.9	5.7
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	6.6	5.6	4.6	3.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	6.8	4.7	3.8	2.5
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.4	3.2	2.6	1.4
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	3.3	2.0	1.6	1.0
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.3	1.3	1.1	0.6
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.7	0.8	0.8	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.6	1.0	0.9	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.4	1.2	0.7	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.0	1.2	0.7	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	19.0			9.0
Coulter 1994	um	INORG MEDIAN	15.0			8.0
Coulter 1994	um	INORG MODE	8.0			6.0
Coulter 1994	um	INORG STD DEV	4.9			3.6
Coulter 1994	-	INORG SKEWNESS	0.1			0.6
Coulter 1994	-	INORG KURTOSIS	-1.0			0.5

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED04	CED04	CED05	CED06
		FIELD_ID	LSJ98SCED04MA	LSJ98SCED04LA	LSJ98SCED05SA	LSJ98SCED06SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	75.4	78.2	73.9	71.6
SM17 2540G	% of wet weight	TOTAL SOLIDS	24.6	21.8	26.1	28.4
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	20.8	21.6	17.7	23.1
SW846 9060	mg / kg	TOC	142000.0	181000.0	74400.0	134000.0
Folk 1994	% of dry volume	PERCENT SAND	15.2	15.3	78.5	72.9
Folk 1994	% of dry volume	PERCENT SILT	71.9	73.7	19.8	24.7
Folk 1994	% of dry volume	PERCENT CLAY	12.9	11.0	1.6	2.5
Folk 1994	% of dry volume	PERCENT MUD	84.8	84.7	21.4	27.2
Coulter 1994	um	MEAN	16.8	17.4	171.0	153.0
Coulter 1994	um	MEDIAN	16.4	17.6	202.0	215.0
Coulter 1994	um	MODE	16.4	18.0	204.0	517.0
Coulter 1994	um	STDDEV	3.9	3.4	4.4	4.9
Coulter 1994	-	SKEWNESS	0.2	-0.2	-0.7	-0.8
Coulter 1994	-	KURTOSIS	0.5	0.0	0.4	0.0
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	0.2	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.7	0.6	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	1.2	0.9	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	1.5	1.2	ND	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	2.0	1.6	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	2.9	2.5	0.4	0.6
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	4.4	4.0	0.7	0.9
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	6.3	5.9	0.9	1.3
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	8.4	8.0	1.3	1.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.8	9.8	1.6	2.1
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	11.0	11.3	2.2	2.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.1	11.6	2.7	3.5
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	9.6	10.2	3.1	3.9
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.3	9.0	3.7	4.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.3	7.9	4.4	5.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.6	6.2	5.3	5.4
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.5	4.1	7.6	6.2
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.1	2.6	11.0	7.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	1.1	1.3	12.2	7.4
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	0.7	0.7	10.8	8.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.5	0.4	8.8	11.2
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.2	ND	5.8	11.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.7	ND	5.1	9.0
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.8	ND	5.7	4.4
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	6.3	0.5
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	1.5
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	CED06	CED06	CED07	CED07
		FIELD_ID	LSJ98SCED06MA	LSJ98SCED06LA	LSJ98SCED07SA	LSJ98SCED07MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	74.4	81.5	74.2	74.4
SM17 2540G	% of wet weight	TOTAL SOLIDS	25.6	18.5	25.8	25.6
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	18.0	25.3	24.5	24.3
SW846 9060	mg / kg	TOC	85500.0	196000.0	125000.0	134000.0
Folk 1994	% of dry volume	PERCENT SAND	69.1	68.7	65.3	66.2
Folk 1994	% of dry volume	PERCENT SILT	28.5	29.3	31.1	30.5
Folk 1994	% of dry volume	PERCENT CLAY	2.4	2.0	3.6	3.3
Folk 1994	% of dry volume	PERCENT MUD	30.9	31.3	34.7	33.8
Coulter 1994	um	MEAN	122.0	117.0	117.0	119.0
Coulter 1994	um	MEDIAN	144.0	125.0	160.0	149.0
Coulter 1994	um	MODE	169.0	106.0	684.0	684.0
Coulter 1994	um	STDDEV	4.7	4.2	5.6	5.4
Coulter 1994	-	SKEWNESS	-0.5	-0.5	-0.6	-0.5
Coulter 1994	-	KURTOSIS	-0.1	0.1	-0.6	-0.5
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	0.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.2	0.2	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.4	0.3	0.6	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.6	0.5	0.9	0.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.9	0.7	1.4	1.3
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.3	1.0	2.0	1.8
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.8	1.4	2.7	2.4
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.2	1.8	3.2	2.9
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	3.0	2.5	3.9	3.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.8	3.6	4.5	4.3
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	4.6	4.8	4.6	4.6
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.5	6.3	5.0	5.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.4	8.0	5.3	5.8
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.9	9.1	5.4	6.1
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	8.3	9.7	5.6	6.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	10.0	9.3	6.1	7.0
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	9.3	8.0	6.1	6.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	7.9	7.2	6.7	6.6
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	7.6	7.6	8.9	8.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	6.1	7.5	10.6	9.7
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	5.1	6.2	10.1	9.0
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	4.4	3.5	5.3	4.9
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	3.6	0.8	0.5	0.8
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	0.7
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED07	CED07-1	CED08	CED08
		FIELD_ID	LSJ98SCED07LA	LSJ99SCED071D	LSJ98SCED08SA	LSJ98SCED08MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	79.9	84.1	64.7	66.9
SM17 2540G	% of wet weight	TOTAL SOLIDS	20.1	15.9	35.3	33.1
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	21.4	27.5	21.7	18.1
SW846 9060	mg / kg	TOC	166000.0	157000.0	142000.0	119000.0
Folk 1994	% of dry volume	PERCENT SAND	73.5	24.6	42.2	71.3
Folk 1994	% of dry volume	PERCENT SILT	24.6	69.0	49.6	26.0
Folk 1994	% of dry volume	PERCENT CLAY	1.9	6.4	8.2	2.7
Folk 1994	% of dry volume	PERCENT MUD	26.5	75.4	57.8	28.7
Coulter 1994	um	MEAN	134.0	26.1	47.5	140.0
Coulter 1994	um	MEDIAN	157.0	25.7	42.2	161.0
Coulter 1994	um	MODE	169.0	19.8	2380.0	2380.0
Coulter 1994	um	STDDEV	4.1	3.6	6.5	5.2
Coulter 1994	-	SKEWNESS	-0.7	ND	0.2	-0.5
Coulter 1994	-	KURTOSIS	0.4	0.4	-0.6	-0.1
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	0.4	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	0.6	0.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.2	0.7	0.8	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.9	1.3	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	1.4	2.0	0.7
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.7	2.4	3.1	1.0
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	0.9	3.8	4.2	1.3
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.2	5.8	5.4	1.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	1.6	7.8	6.1	2.2
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.2	10.1	6.6	2.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.1	11.3	7.0	3.5
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	4.0	10.7	6.7	4.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.2	10.0	6.7	4.8
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.6	9.6	6.9	5.7
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.8	8.4	6.5	6.4
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	9.2	6.4	6.1	7.9
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	10.1	4.2	5.5	9.8
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	10.1	2.0	4.4	9.3
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	9.4	1.2	3.3	7.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	9.0	0.7	3.0	6.8
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	7.7	0.4	2.6	5.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	6.1	0.5	2.9	5.6
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	3.4	0.6	3.2	5.1
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.9	ND	2.6	4.0
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	2.2	3.3
Coulter 1994	um	INORG MEAN			16.0	
Coulter 1994	um	INORG MEDIAN			12.0	
Coulter 1994	um	INORG MODE			9.0	
Coulter 1994	um	INORG STD DEV			5.2	
Coulter 1994	-	INORG SKEWNESS			0.4	
Coulter 1994	-	INORG KURTOSIS			-0.4	

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED09	CED09	CED12	CED13
		FIELD_ID	LSJ98SCED09SA	LSJ98SCED09MA	LSJ99SCED12D	LSJ99SCED13D
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	69.9	70.5	67.4	65.7
SM17 2540G	% of wet weight	TOTAL SOLIDS	30.1	29.5	32.6	34.3
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	21.7	20.8	15.8	12.6
SW846 9060	mg / kg	TOC	119000.0	112000.0	90100.0	63100.0
Folk 1994	% of dry volume	PERCENT SAND	44.9	51.7	21.7	65.1
Folk 1994	% of dry volume	PERCENT SILT	47.8	43.1	59.8	30.5
Folk 1994	% of dry volume	PERCENT CLAY	7.3	5.2	18.5	4.4
Folk 1994	% of dry volume	PERCENT MUD	55.1	48.3	78.3	34.9
Coulter 1994	um	MEAN	50.7	64.2	16.9	111.0
Coulter 1994	um	MEDIAN	47.5	68.1	15.2	133.0
Coulter 1994	um	MODE	19.8	128.0	18.0	154.0
Coulter 1994	um	STDDEV	6.1	5.5	5.1	6.4
Coulter 1994	-	SKEWNESS	0.0	-0.2	0.3	-0.4
Coulter 1994	-	KURTOSIS	-0.7	-0.6	-0.3	-0.6
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	ND	1.1	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.4	1.8	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.8	0.5	2.3	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.2	0.8	3.0	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.8	1.3	4.2	1.0
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.7	2.0	5.7	1.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	3.8	2.8	7.1	2.1
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	5.0	3.8	8.1	2.9
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	5.8	4.6	8.4	3.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	6.6	5.6	8.6	4.3
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	7.0	6.3	8.5	4.7
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	6.6	6.4	7.3	4.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	6.5	6.6	6.2	4.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.5	7.0	5.7	4.5
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.2	6.9	5.0	5.3
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	6.4	7.4	4.4	8.1
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	6.2	7.4	3.9	10.4
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.1	6.2	2.6	7.4
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	4.2	5.5	1.5	4.4
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	3.7	5.3	1.3	4.2
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	3.3	4.3	1.1	4.2
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	3.7	4.2	0.9	5.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	3.7	3.1	0.8	7.7
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	2.5	1.4	ND	8.0
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	19.0			
Coulter 1994	um	INORG MEDIAN	13.0			
Coulter 1994	um	INORG MODE	9.0			
Coulter 1994	um	INORG STD DEV	6.0			
Coulter 1994	-	INORG SKEWNESS	0.5			
Coulter 1994	-	INORG KURTOSIS	-0.4			

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	CED14	ORT01	ORT01	ORT01
		FIELD_ID	LSJ99SCED14D	LSJ98SORT01SA	LSJ98SORT01MA	LSJ98SORT01LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	62.3	78.9	75.5	74.4
SM17 2540G	% of wet weight	TOTAL SOLIDS	37.7	21.1	24.5	25.6
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	9.4	18.5	19.0	15.5
SW846 9060	mg / kg	TOC	43400.0	105000.0	128000.0	104000.0
Folk 1994	% of dry volume	PERCENT SAND	49.1	23.8	21.4	15.2
Folk 1994	% of dry volume	PERCENT SILT	45.4	69.7	71.1	75.6
Folk 1994	% of dry volume	PERCENT CLAY	5.6	6.5	7.6	9.2
Folk 1994	% of dry volume	PERCENT MUD	51.0	76.2	78.7	84.8
Coulter 1994	um	MEAN	58.2	24.5	23.4	18.3
Coulter 1994	um	MEDIAN	58.7	23.1	19.9	17.0
Coulter 1994	um	MODE	2380.0	19.8	18.0	16.4
Coulter 1994	um	STDDEV	5.8	3.5	4.1	3.6
Coulter 1994	-	SKEWNESS	0.0	0.0	0.6	0.3
Coulter 1994	-	KURTOSIS	-0.5	0.0	0.8	0.8
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.3	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.5	0.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.6	0.7	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	0.9	1.0	1.3
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.3	1.5	1.8	2.1
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.9	2.6	3.1	3.6
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.9	4.2	5.0	5.7
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	4.2	6.4	7.4	8.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	5.5	8.6	9.6	10.7
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	7.0	10.9	11.8	12.9
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	7.7	11.9	12.4	13.3
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	6.9	10.6	10.3	10.9
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	6.0	9.1	8.1	8.1
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	5.3	7.9	6.5	5.8
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.5	6.9	5.1	4.1
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.4	6.1	4.2	3.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	8.3	5.2	3.9	3.1
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	12.1	3.0	2.4	2.3
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	8.1	1.4	1.2	1.0
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	3.0	0.6	0.8	0.5
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.2	ND	0.4	0.3
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.5	0.3	0.9	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.7	ND	1.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.8	ND	1.1	0.2
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	3.5	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT02	ORT02	ORT02	ORT03
		FIELD_ID	LSJ98SORT02SA	LSJ98SORT02MA	LSJ98SORT02LA	LSJ98SORT03SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	74.5	77.9	74.9	78.5
SM17 2540G	% of wet weight	TOTAL SOLIDS	25.5	22.1	25.1	21.5
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	17.6	18.4	16.2	19.0
SW846 9060	mg / kg	TOC	97400.0	109000.0	104000.0	116000.0
Folk 1994	% of dry volume	PERCENT SAND	17.3	21.5	13.6	15.9
Folk 1994	% of dry volume	PERCENT SILT	73.6	71.5	77.5	75.9
Folk 1994	% of dry volume	PERCENT CLAY	9.0	7.0	8.9	8.3
Folk 1994	% of dry volume	PERCENT MUD	82.6	78.5	86.4	84.2
Coulter 1994	um	MEAN	19.9	23.8	17.9	18.7
Coulter 1994	um	MEDIAN	18.0	21.0	17.0	17.6
Coulter 1994	um	MODE	18.0	18.0	18.0	16.4
Coulter 1994	um	STDDEV	3.8	3.9	3.4	3.3
Coulter 1994	-	SKEWNESS	0.4	0.3	0.4	0.1
Coulter 1994	-	KURTOSIS	0.7	0.5	1.0	0.1
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.7	0.6	0.7	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.9	0.7	0.8	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.3	1.0	1.2	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	2.1	1.6	2.1	1.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.5	2.7	3.6	3.4
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.5	4.4	5.8	5.5
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.9	6.8	8.4	8.2
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	10.1	9.1	10.7	10.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	12.2	11.7	12.9	12.9
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	12.8	12.8	13.4	13.2
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	10.8	11.1	11.3	10.8
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.2	8.8	8.6	8.3
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.1	6.8	6.4	6.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.5	5.2	4.4	4.8
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.3	4.2	2.8	3.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.2	4.1	2.3	3.1
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.3	2.9	1.5	2.4
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.2	1.6	0.8	1.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	1.1	0.4	0.5
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.6	0.7	0.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.8	0.7	0.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.7	0.6	0.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	0.3	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	14.0			
Coulter 1994	um	INORG MEDIAN	13.0			
Coulter 1994	um	INORG MODE	20.0			
Coulter 1994	um	INORG STD DEV	4.3			
Coulter 1994	-	INORG SKEWNESS	0.2			
Coulter 1994	-	INORG KURTOSIS	-0.6			

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT03	ORT03	ORT04	ORT04
		FIELD_ID	LSJ98SORT03MA	LSJ98SORT03LA	LSJ98SORT04SA	LSJ98SORT04MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.9	77.2	76.8	78.8
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.1	22.8	23.2	21.2
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	22.5	19.1	20.1	18.2
SW846 9060	mg / kg	TOC	136000.0	115000.0	118000.0	128000.0
Folk 1994	% of dry volume	PERCENT SAND	13.1	15.4	17.8	23.3
Folk 1994	% of dry volume	PERCENT SILT	78.4	76.0	73.5	69.9
Folk 1994	% of dry volume	PERCENT CLAY	8.5	8.6	8.7	6.8
Folk 1994	% of dry volume	PERCENT MUD	86.9	84.6	82.2	76.7
Coulter 1994	um	MEAN	17.4	18.8	20.3	24.8
Coulter 1994	um	MEDIAN	16.8	17.7	18.2	22.0
Coulter 1994	um	MODE	16.4	16.4	16.4	18.0
Coulter 1994	um	STDDEV	3.2	3.5	3.8	3.8
Coulter 1994	-	SKEWNESS	0.1	0.3	0.4	0.2
Coulter 1994	-	KURTOSIS	0.3	0.6	0.6	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.4	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.7	0.6	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.8	0.8	0.8	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.2	1.2	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	2.0	2.0	2.0	1.6
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.5	3.4	3.5	2.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.7	5.5	5.5	4.5
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	8.5	8.1	8.0	6.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	11.0	10.4	10.1	9.0
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	13.3	12.7	12.1	11.2
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	13.6	13.1	12.5	12.0
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.1	11.0	10.5	10.5
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.5	8.7	8.3	8.7
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.6	6.5	6.5	7.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.8	4.6	4.8	6.0
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.1	3.2	3.4	4.9
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.3	2.8	3.0	4.1
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	1.4	1.9	2.2	2.9
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	0.9	1.0	1.3	1.8
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	0.6	0.8	1.2
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	0.3	0.6	0.9
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	ND	0.4	0.9	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	ND	0.4	0.8	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN			12.0	
Coulter 1994	um	INORG MEDIAN			11.0	
Coulter 1994	um	INORG MODE			5.0	
Coulter 1994	um	INORG STD DEV			4.4	
Coulter 1994	-	INORG SKEWNESS			0.4	
Coulter 1994	-	INORG KURTOSIS			-0.3	

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT04	ORT04-1	ORT04-1	ORT04-1
		FIELD_ID	LSJ98SORT04LA	LSJ99SORT041SB	LSJ99SORT041MB	LSJ99SORT041LB
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.0	78.8	79.8	78.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	22.0	21.2	20.2	21.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	16.6	20.6	23.8	21.4
SW846 9060	mg / kg	TOC	114000.0	120000.0	134000.0	121000.0
Folk 1994	% of dry volume	PERCENT SAND	15.0	20.2	23.1	13.9
Folk 1994	% of dry volume	PERCENT SILT	77.2	72.0	70.2	77.9
Folk 1994	% of dry volume	PERCENT CLAY	7.8	7.8	6.7	8.2
Folk 1994	% of dry volume	PERCENT MUD	85.0	79.8	76.9	86.1
Coulter 1994	um	MEAN	18.9	22.6	26.3	18.1
Coulter 1994	um	MEDIAN	17.4	20.1	21.8	17.8
Coulter 1994	um	MODE	16.4	18.0	18.0	18.0
Coulter 1994	um	STDDEV	3.4	3.9	4.4	3.1
Coulter 1994	-	SKEWNESS	0.3	0.4	0.6	-0.1
Coulter 1994	-	KURTOSIS	0.7	0.6	0.7	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.6	0.5	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.8	0.7	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.0	1.1	0.9	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.8	1.8	1.5	1.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.3	3.0	2.6	3.3
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.4	4.8	4.3	5.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	8.2	7.2	6.6	8.0
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	10.9	9.4	9.0	10.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	13.4	11.7	11.4	12.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	13.7	12.5	12.4	13.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.1	10.8	10.7	11.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.3	8.7	8.7	9.1
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.2	6.9	7.0	7.2
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.4	5.2	5.5	5.4
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.0	3.9	4.1	3.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.6	3.4	3.4	2.4
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.0	2.6	2.3	1.5
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.2	1.7	1.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	1.0	1.1	0.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.3	0.5	0.8	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.5	0.7	1.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.3	0.8	1.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	0.5	1.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	ORT04-1	ORT04-2	ORT04-2	ORT04-2
		FIELD_ID	LSJ99SORT041CB	LSJ99SORT041SC	LSJ99SORT041MC	LSJ99SORT041LC
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	77.2	78.4	78.6	76.9
SM17 2540G	% of wet weight	TOTAL SOLIDS	22.8	21.6	21.4	23.1
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	19.6	20.0	22.0	21.0
SW846 9060	mg / kg	TOC	98000.0	117000.0	128000.0	122000.0
Folk 1994	% of dry volume	PERCENT SAND	16.0	18.7	16.6	24.3
Folk 1994	% of dry volume	PERCENT SILT	76.2	73.2	76.2	66.7
Folk 1994	% of dry volume	PERCENT CLAY	7.8	8.1	7.2	8.9
Folk 1994	% of dry volume	PERCENT MUD	84.0	81.3	83.4	75.6
Coulter 1994	um	MEAN	19.4	21.0	20.4	28.0
Coulter 1994	um	MEDIAN	18.4	19.2	19.0	20.0
Coulter 1994	um	MODE	18.0	18.0	18.0	16.4
Coulter 1994	um	STDDEV	3.3	3.7	3.4	5.9
Coulter 1994	-	SKEWNESS	0.0	0.3	0.3	0.7
Coulter 1994	-	KURTOSIS	0.2	0.5	0.7	0.1
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.6	0.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.8	0.8	0.7	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.1	1.0	1.3
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.8	1.9	1.6	2.1
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.1	3.2	2.9	3.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.1	5.1	4.8	5.3
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.7	7.5	7.4	7.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	10.2	9.8	10.0	9.4
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	12.8	11.9	12.7	11.0
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	13.4	12.5	13.6	11.1
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.4	10.7	11.5	9.3
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.9	8.7	9.1	7.4
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.8	6.9	7.1	5.8
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.9	5.3	5.3	4.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.5	3.9	3.7	2.7
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.1	3.3	2.8	2.1
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.4	2.3	1.8	1.5
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.5	1.3	1.0	1.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	0.7	0.6	1.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	0.5	0.3	1.6
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	ND	0.6	0.4	2.7
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	ND	0.6	0.5	3.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	3.4
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
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		SITE_ID	ORT04-2	ORT05	ORT05	ORT05
		FIELD_ID	LSJ99SORT041CC	LSJ98SORT05SA	LSJ98SORT05MA	LSJ98SORT05LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.1	78.6	79.7	77.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.9	21.4	20.3	22.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	22.1	21.3	22.6	21.9
SW846 9060	mg / kg	TOC	120000.0	125000.0	146000.0	132000.0
Folk 1994	% of dry volume	PERCENT SAND	14.8	21.6	12.7	13.5
Folk 1994	% of dry volume	PERCENT SILT	78.3	71.0	79.1	78.1
Folk 1994	% of dry volume	PERCENT CLAY	6.9	7.4	8.2	8.4
Folk 1994	% of dry volume	PERCENT MUD	85.2	78.4	87.3	86.5
Coulter 1994	um	MEAN	19.5	23.7	17.6	18.4
Coulter 1994	um	MEDIAN	18.6	20.3	17.3	17.6
Coulter 1994	um	MODE	18.0	18.0	18.0	18.0
Coulter 1994	um	STDDEV	3.2	4.1	3.1	3.4
Coulter 1994	-	SKEWNESS	0.2	0.5	-0.1	0.4
Coulter 1994	-	KURTOSIS	0.7	0.6	0.3	1.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.3	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.5	0.6	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.6	0.7	0.7	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	1.0	1.1	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.5	1.7	1.9	2.0
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.8	3.1	3.4	3.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.9	5.0	5.5	5.6
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.6	7.4	8.2	8.1
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	10.4	9.5	10.7	10.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	13.2	11.6	13.2	12.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	14.1	12.1	13.8	13.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.8	10.3	11.6	11.5
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	9.3	8.4	9.1	9.1
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.1	6.8	7.1	7.1
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.1	5.4	5.1	5.1
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.4	4.2	3.2	3.1
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.7	3.6	2.1	1.9
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	1.7	2.6	1.3	0.9
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	0.8	1.6	0.8	0.4
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.4	0.9	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.2	0.5	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.3	0.9	ND	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.3	1.2	ND	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	0.9	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT06	ORT06	ORT06	ORT06-1
		FIELD_ID	LSJ98SORT06SA	LSJ98SORT06MA	LSJ98SORT06LA	LSJ98SORT061SA
ANAL_MET	**UNIT**	**PARAMETER**				
SM17 2540G	% of wet weight	PERCENT MOISTURE	77.0	61.4	75.3	75.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	23.0	38.6	24.7	24.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	17.3	50.6	17.7	17.0
SW846 9060	mg / kg	TOC	110000.0	109000.0	91200.0	93200.0
Folk 1994	% of dry volume	PERCENT SAND	19.9	14.7	12.2	21.9
Folk 1994	% of dry volume	PERCENT SILT	72.6	76.1	78.6	70.1
Folk 1994	% of dry volume	PERCENT CLAY	7.5	9.2	9.1	8.0
Folk 1994	% of dry volume	PERCENT MUD	80.1	85.3	87.7	78.1
Coulter 1994	um	MEAN	21.6	17.4	16.7	22.9
Coulter 1994	um	MEDIAN	19.9	16.4	16.5	20.0
Coulter 1994	um	MODE	18.0	14.9	16.4	18.0
Coulter 1994	um	STDDEV	3.6	3.3	3.1	4.0
Coulter 1994	-	SKEWNESS	0.2	0.1	0.0	0.4
Coulter 1994	-	KURTOSIS	0.3	0.1	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.5	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.7	0.7	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.9	0.9	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.0	1.2	1.3	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.7	2.1	2.1	1.8
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.0	3.7	3.6	3.1
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.8	6.0	5.7	5.0
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.3	8.7	8.5	7.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.6	11.1	11.1	9.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	11.9	13.2	13.5	11.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	12.7	13.0	13.9	12.2
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	10.8	10.3	11.4	10.2
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.7	7.8	8.5	8.0
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.9	6.1	6.1	6.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.4	4.6	4.2	5.0
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.6	3.5	3.0	4.3
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.3	3.2	2.5	4.6
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.7	2.1	1.5	3.1
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.3	1.0	0.8	1.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	0.4	0.3	0.9
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	ND	ND	0.4
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.3	ND	ND	1.0
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.4	ND	ND	1.0
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				15.0
Coulter 1994	um	INORG MEDIAN				12.0
Coulter 1994	um	INORG MODE				10.0
Coulter 1994	um	INORG STD DEV				4.0
Coulter 1994	-	INORG SKEWNESS				0.3
Coulter 1994	-	INORG KURTOSIS				-0.4

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT06-1	ORT06-1	ORT07	ORT07
		FIELD_ID	LSJ98SORT061MA	LSJ98SORT061LA	LSJ98SORT07SA	LSJ98SORT07MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	77.7	77.2	82.3	82.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	22.3	22.8	17.7	17.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	16.6	17.1	22.4	20.5
SW846 9060	mg / kg	TOC	114000.0	95100.0	136000.0	137000.0
Folk 1994	% of dry volume	PERCENT SAND	16.8	13.2	23.8	20.1
Folk 1994	% of dry volume	PERCENT SILT	76.5	78.4	69.9	73.3
Folk 1994	% of dry volume	PERCENT CLAY	6.8	8.3	6.3	6.6
Folk 1994	% of dry volume	PERCENT MUD	83.3	86.7	76.2	79.9
Coulter 1994	um	MEAN	20.4	17.5	25.1	22.5
Coulter 1994	um	MEDIAN	19.4	16.8	23.9	22.1
Coulter 1994	um	MODE	18.0	16.4	19.8	18.0
Coulter 1994	um	STDDEV	3.2	3.2	3.5	3.3
Coulter 1994	-	SKEWNESS	ND	0.1	0.0	-0.1
Coulter 1994	-	KURTOSIS	0.3	0.4	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.4	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.6	0.5	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.8	0.6	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	1.1	0.9	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.5	1.9	1.4	1.5
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.7	3.4	2.5	2.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.6	5.6	4.1	4.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.2	8.4	6.3	6.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.9	11.1	8.4	9.0
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	12.8	13.6	10.7	11.2
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	14.0	14.0	11.7	12.1
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.8	11.4	10.6	11.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	9.1	8.3	9.5	9.9
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.0	6.1	8.7	9.1
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.3	4.3	7.6	7.7
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.1	2.9	6.0	5.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.6	2.6	4.4	3.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.2	1.8	2.7	1.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.0	1.0	1.5	1.0
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.6	0.5	0.6	0.5
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	ND	0.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	ND	ND	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	ND	ND	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN			11.0	
Coulter 1994	um	INORG MEDIAN			11.0	
Coulter 1994	um	INORG MODE			11.0	
Coulter 1994	um	INORG STD DEV			3.1	
Coulter 1994	-	INORG SKEWNESS			0.4	
Coulter 1994	-	INORG KURTOSIS			0.8	

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
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		SITE_ID	ORT07	ORT08	ORT08	ORT08
		FIELD_ID	LSJ98SORT07LA	LSJ98SORT08SA	LSJ98SORT08MA	LSJ98SORT08LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	81.8	75.7	76.8	73.8
SM17 2540G	% of wet weight	TOTAL SOLIDS	18.2	24.3	23.2	26.2
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	23.0	20.1	20.7	16.5
SW846 9060	mg / kg	TOC	152000.0	117000.0	102000.0	93600.0
Folk 1994	% of dry volume	PERCENT SAND	17.7	31.1	34.5	18.7
Folk 1994	% of dry volume	PERCENT SILT	75.9	62.6	60.8	72.6
Folk 1994	% of dry volume	PERCENT CLAY	6.4	6.3	4.7	8.7
Folk 1994	% of dry volume	PERCENT MUD	82.3	68.9	65.5	81.3
Coulter 1994	um	MEAN	21.5	34.0	38.6	21.8
Coulter 1994	um	MEDIAN	21.8	27.0	32.6	18.7
Coulter 1994	um	MODE	19.8	18.0	21.7	18.0
Coulter 1994	um	STDDEV	3.1	4.9	4.5	4.3
Coulter 1994	-	SKEWNESS	-0.3	0.4	0.2	0.7
Coulter 1994	-	KURTOSIS	0.2	-0.4	-0.3	0.9
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.2	ND	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.4	0.3	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.6	0.5	0.4	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.8	0.9	0.6	1.2
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.4	1.5	1.1	2.0
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.5	2.7	2.0	3.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.3	4.4	3.3	5.5
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.6	6.3	5.1	7.8
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.0	8.0	6.9	9.9
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	11.6	9.5	8.9	11.7
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	12.7	10.0	10.1	12.2
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.7	9.1	9.7	10.5
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	10.6	8.2	9.0	8.4
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	9.5	7.2	7.8	6.5
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.7	5.7	6.4	4.9
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.1	4.5	5.6	3.3
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	2.7	3.6	5.0	2.3
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	1.2	2.9	4.3	1.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	0.6	2.8	3.7	0.9
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.3	3.4	3.3	0.7
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	3.5	2.6	1.1
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	ND	3.1	2.2	1.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	ND	1.5	1.3	1.3
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	1.2
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN		11.0		
Coulter 1994	um	INORG MEDIAN		11.0		
Coulter 1994	um	INORG MODE		14.0		
Coulter 1994	um	INORG STD DEV		3.0		
Coulter 1994	-	INORG SKEWNESS		0.2		
Coulter 1994	-	INORG KURTOSIS		0.8		

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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(FIELD DATA)

		SITE_ID	ORT09	ORT09	ORT09	ORT10
		FIELD_ID	LSJ98SORT09SA	LSJ98SORT09MA	LSJ98SORT09LA	LSJ98SORT10SA
ANAL_MET	**UNIT**	**PARAMETER**				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.2	78.9	74.3	80.8
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.8	21.1	25.7	19.2
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	19.4	20.5	18.2	22.0
SW846 9060	mg / kg	TOC	90000.0	132000.0	99600.0	129000.0
Folk 1994	% of dry volume	PERCENT SAND	28.4	24.5	17.8	25.5
Folk 1994	% of dry volume	PERCENT SILT	65.2	69.5	73.4	67.9
Folk 1994	% of dry volume	PERCENT CLAY	6.4	6.0	8.9	6.6
Folk 1994	% of dry volume	PERCENT MUD	71.6	75.5	82.3	74.5
Coulter 1994	um	MEAN	29.5	26.6	19.2	26.8
Coulter 1994	um	MEDIAN	24.9	22.9	17.1	23.5
Coulter 1994	um	MODE	18.0	18.0	14.9	18.0
Coulter 1994	um	STDDEV	4.3	3.9	3.7	4.1
Coulter 1994	-	SKEWNESS	0.3	0.3	0.3	0.4
Coulter 1994	-	KURTOSIS	0.1	0.3	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.4	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.5	0.7	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.6	0.6	0.8	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	0.8	1.2	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.5	1.4	2.0	1.5
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.5	2.4	3.6	2.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.1	4.1	5.8	4.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.1	6.3	8.5	6.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.2	8.7	10.8	8.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	10.3	11.3	12.7	10.7
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.2	12.4	12.4	11.3
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	9.9	10.8	9.9	10.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.4	8.8	7.5	8.7
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.1	7.1	5.8	7.7
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.1	5.8	4.6	6.7
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.6	5.0	3.9	5.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.9	4.4	3.8	4.3
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.4	3.1	2.5	2.8
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	2.3	2.0	1.2	1.7
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	1.7	1.5	0.6	1.1
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.1	0.9	0.2	0.7
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.5	0.9	0.5	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.3	0.8	0.5	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.5	0.3	ND	0.8
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT10	ORT10	ORT11	ORT11
		FIELD_ID	LSJ98SORT10MA	LSJ98SORT10LA	LSJ98SORT11SA	LSJ98SORT11MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	81.1	75.3	80.6	79.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	18.9	24.7	19.4	20.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	22.0	20.4	23.5	22.3
SW846 9060	mg / kg	TOC	141000.0	132000.0	128000.0	134000.0
Folk 1994	% of dry volume	PERCENT SAND	21.3	25.7	60.5	57.2
Folk 1994	% of dry volume	PERCENT SILT	71.8	67.0	36.5	39.2
Folk 1994	% of dry volume	PERCENT CLAY	6.9	7.3	3.0	3.5
Folk 1994	% of dry volume	PERCENT MUD	78.7	74.3	39.5	42.7
Coulter 1994	um	MEAN	23.1	28.5	114.0	86.8
Coulter 1994	um	MEDIAN	22.1	21.8	154.0	102.0
Coulter 1994	um	MODE	18.0	16.4	751.0	517.0
Coulter 1994	um	STDDEV	3.5	5.0	6.2	5.4
Coulter 1994	-	SKEWNESS	0.1	0.6	-0.4	-0.4
Coulter 1994	-	KURTOSIS	0.4	0.2	-1.1	-0.9
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.3	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.5	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.7	0.2	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	1.0	0.4	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.6	1.7	0.8	0.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.8	3.0	1.4	1.6
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.5	4.8	2.2	2.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.8	7.1	3.2	3.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.9	9.1	4.2	4.2
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	11.1	10.9	5.2	5.3
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.9	11.2	5.8	6.1
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	10.6	9.7	5.6	6.2
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	9.5	7.9	5.4	6.1
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	8.6	6.3	4.9	5.7
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.3	4.9	4.3	5.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.4	3.7	3.9	5.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.4	3.4	4.0	5.4
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.0	2.5	4.1	5.7
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.3	1.5	5.1	6.7
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.7	1.5	8.1	10.1
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.3	1.8	11.3	10.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.4	2.3	11.6	6.7
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.4	2.3	6.9	1.8
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	1.8	1.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT11	ORT12	ORT12	ORT12
		FIELD_ID	LSJ98SORT11LA	LSJ98SORT12SA	LSJ98SORT12MA	LSJ98SORT12LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	75.9	81.2	81.3	78.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	24.1	18.8	18.7	21.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	17.8	22.2	25.3	20.7
SW846 9060	mg / kg	TOC	106000.0	130000.0	145000.0	129000.0
Folk 1994	% of dry volume	PERCENT SAND	59.0	27.9	49.7	40.8
Folk 1994	% of dry volume	PERCENT SILT	37.5	65.4	46.6	53.8
Folk 1994	% of dry volume	PERCENT CLAY	3.5	6.7	3.8	5.4
Folk 1994	% of dry volume	PERCENT MUD	41.0	72.1	50.4	59.2
Coulter 1994	um	MEAN	93.9	29.8	70.7	48.5
Coulter 1994	um	MEDIAN	118.0	24.3	61.2	37.8
Coulter 1994	um	MODE	623.0	18.0	623.0	19.8
Coulter 1994	um	STDDEV	5.6	4.6	5.8	5.6
Coulter 1994	-	SKEWNESS	-0.4	0.4	-0.1	0.1
Coulter 1994	-	KURTOSIS	-0.9	-0.1	-1.1	-0.9
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	0.3	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	0.5	ND	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.3	0.6	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.5	0.9	0.5	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.9	1.6	1.0	1.4
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.6	2.7	1.7	2.4
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.3	4.4	2.8	3.7
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	3.2	6.5	4.3	5.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	4.0	8.5	5.6	6.7
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	5.0	10.3	6.9	8.0
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	5.8	10.8	7.4	8.6
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	5.9	9.5	7.0	8.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.8	8.2	6.6	7.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	5.5	7.2	6.1	6.2
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.0	5.9	5.2	5.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.9	4.6	4.3	4.3
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.5	3.7	4.0	4.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.8	2.7	3.9	4.1
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	6.7	2.3	4.9	4.6
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	9.5	2.6	7.5	5.5
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	11.0	2.5	9.1	5.5
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	8.4	2.2	7.5	4.9
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.5	1.2	3.1	2.3
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT13	ORT13	ORT13	ORT14
		FIELD_ID	LSJ98SORT13SA	LSJ98SORT13MA	LSJ98SORT13LA	LSJ98SORT14SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	81.4	79.1	79.5	78.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	18.6	20.9	20.5	21.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	23.8	24.3	24.4	19.8
SW846 9060	mg / kg	TOC	146000.0	152000.0	159000.0	110000.0
Folk 1994	% of dry volume	PERCENT SAND	20.4	18.4	17.4	26.3
Folk 1994	% of dry volume	PERCENT SILT	71.7	73.6	74.5	67.5
Folk 1994	% of dry volume	PERCENT CLAY	7.9	8.1	8.0	6.2
Folk 1994	% of dry volume	PERCENT MUD	79.6	81.7	82.5	73.7
Coulter 1994	um	MEAN	21.9	20.6	20.4	28.3
Coulter 1994	um	MEDIAN	20.3	19.6	19.1	23.7
Coulter 1994	um	MODE	18.0	18.0	18.0	18.0
Coulter 1994	um	STDDEV	3.7	3.5	3.6	4.2
Coulter 1994	-	SKEWNESS	0.2	0.1	0.3	0.4
Coulter 1994	-	KURTOSIS	0.3	0.4	0.7	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.4	0.4	0.4	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.6	0.6	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.8	0.8	0.8	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.1	1.1	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.8	1.8	1.9	1.4
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.1	3.2	3.2	2.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.0	5.1	5.2	4.2
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	7.3	7.4	7.6	6.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.4	9.6	9.9	8.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	11.4	11.7	12.0	10.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.9	12.3	12.5	11.7
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	10.3	10.7	10.8	10.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.8	9.0	9.0	8.6
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.7	7.7	7.5	7.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.4	6.3	5.8	5.6
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.0	4.6	4.0	4.7
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.5	3.1	2.8	4.9
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	1.9	1.6	1.7	3.8
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.3	0.9	1.1	2.6
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	1.0	0.7	0.6	1.4
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.4	0.5	0.2	0.4
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.5	0.6	0.4	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.5	ND	0.5	1.2
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	0.2	1.2
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				15.0
Coulter 1994	um	INORG MEDIAN				14.0
Coulter 1994	um	INORG MODE				15.0
Coulter 1994	um	INORG STD DEV				3.2
Coulter 1994	-	INORG SKEWNESS				0.3
Coulter 1994	-	INORG KURTOSIS				0.4

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		SITE_ID	ORT14	ORT14	ORT15	ORT15
		FIELD_ID	LSJ98SORT14MA	LSJ98SORT14LA	LSJ98SORT15SA	LSJ98SORT15MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	80.2	79.8	78.8	77.9
SM17 2540G	% of wet weight	TOTAL SOLIDS	19.8	20.2	21.2	22.1
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	16.8	18.8	25.1	24.0
SW846 9060	mg / kg	TOC	94500.0	122000.0	157000.0	156000.0
Folk 1994	% of dry volume	PERCENT SAND	19.0	18.2	34.6	48.1
Folk 1994	% of dry volume	PERCENT SILT	75.1	74.6	59.1	47.7
Folk 1994	% of dry volume	PERCENT CLAY	6.0	7.2	6.4	4.2
Folk 1994	% of dry volume	PERCENT MUD	81.1	81.8	65.5	51.9
Coulter 1994	um	MEAN	22.3	21.2	38.1	71.2
Coulter 1994	um	MEDIAN	20.6	19.7	31.6	57.0
Coulter 1994	um	MODE	18.0	18.0	19.8	23.8
Coulter 1994	um	STDDEV	3.3	3.5	5.2	6.3
Coulter 1994	-	SKEWNESS	0.1	0.2	0.3	0.1
Coulter 1994	-	KURTOSIS	0.1	0.5	-0.4	-1.0
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.2	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.4	0.5	0.4	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.5	0.6	0.5	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.8	0.9	0.9	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.3	1.7	1.6	1.1
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.5	3.0	2.7	1.8
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.4	4.9	4.2	2.8
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.9	7.4	5.8	4.1
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	9.6	9.8	7.2	5.3
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	12.3	12.1	8.5	6.5
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	13.5	12.8	9.0	7.3
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	11.7	11.1	8.5	7.2
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	9.4	9.1	8.1	7.3
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.3	7.4	7.8	7.2
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.5	5.8	6.8	6.3
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.1	4.0	5.4	5.2
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.7	3.2	3.9	4.0
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.0	2.1	2.8	3.2
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	2.0	1.3	2.6	3.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.8	0.7	3.0	4.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	ND	0.3	3.3	5.2
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	ND	0.4	3.5	6.6
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	ND	0.4	2.7	6.0
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	0.6	3.9
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN			9.0	
Coulter 1994	um	INORG MEDIAN			9.0	
Coulter 1994	um	INORG MODE			10.0	
Coulter 1994	um	INORG STD DEV			2.9	
Coulter 1994	-	INORG SKEWNESS			0.2	
Coulter 1994	-	INORG KURTOSIS			0.9	

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		SITE_ID	ORT15	ORT16	ORT16	ORT16
		FIELD_ID	LSJ98SORT15LA	LSJ98SORT16SA	LSJ98SORT16MA	LSJ98SORT16LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	76.4	79.3	82.4	79.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	23.6	20.7	17.6	20.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	24.8	19.9	21.1	20.9
SW846 9060	mg / kg	TOC	154000.0	136000.0	137000.0	138000.0
Folk 1994	% of dry volume	PERCENT SAND	25.0	18.0	20.3	16.0
Folk 1994	% of dry volume	PERCENT SILT	66.9	73.9	73.0	76.5
Folk 1994	% of dry volume	PERCENT CLAY	8.1	8.1	6.7	7.6
Folk 1994	% of dry volume	PERCENT MUD	75.0	82.0	79.7	84.1
Coulter 1994	um	MEAN	26.0	20.2	22.7	19.4
Coulter 1994	um	MEDIAN	23.3	19.5	21.9	18.8
Coulter 1994	um	MODE	19.8	18.0	18.0	18.0
Coulter 1994	um	STDDEV	4.3	3.4	3.4	3.2
Coulter 1994	-	SKEWNESS	0.3	0.0	0.0	-0.1
Coulter 1994	-	KURTOSIS	0.1	0.0	0.4	0.1
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.4	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.6	0.6	0.5	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.8	0.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.1	0.9	1.0
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.9	1.9	1.5	1.8
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	3.3	3.2	2.7	3.2
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	5.0	5.1	4.4	5.2
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.9	7.5	6.7	7.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.5	9.7	9.0	10.1
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	9.8	11.8	11.3	12.4
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	10.3	12.4	12.2	13.0
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	9.5	10.8	11.0	11.2
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.9	9.1	9.7	9.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	8.2	7.6	8.6	7.7
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.7	6.0	7.2	6.0
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.9	4.3	5.3	4.1
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.2	3.5	3.5	2.9
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	2.1	2.2	1.8	1.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.9	1.2	1.0	0.9
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.0	0.7	0.6	0.4
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.7	ND	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.7	ND	0.4	ND
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.9	ND	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN		13.0		
Coulter 1994	um	INORG MEDIAN		12.0		
Coulter 1994	um	INORG MODE		11.0		
Coulter 1994	um	INORG STD DEV		3.8		
Coulter 1994	-	INORG SKEWNESS		0.8		
Coulter 1994	-	INORG KURTOSIS		1.3		

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		SITE_ID	ORT18	ORT18	ORT18	ORT19
		FIELD_ID	LSJ98SORT18SA	LSJ98SORT18MA	LSJ98SORT18LA	LSJ98SORT19B
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.5	77.4	79.1	63.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.5	22.6	20.9	37.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	19.9	17.0	20.0	6.7
SW846 9060	mg / kg	TOC	128000.0	111000.0	122000.0	29800.0
Folk 1994	% of dry volume	PERCENT SAND	31.2	34.7	18.6	56.4
Folk 1994	% of dry volume	PERCENT SILT	62.4	59.1	73.5	39.8
Folk 1994	% of dry volume	PERCENT CLAY	6.5	6.2	7.8	3.8
Folk 1994	% of dry volume	PERCENT MUD	68.9	65.3	81.3	43.6
Coulter 1994	um	MEAN	34.2	38.0	21.0	67.0
Coulter 1994	um	MEDIAN	25.9	29.5	18.7	104.0
Coulter 1994	um	MODE	18.0	18.0	16.4	185.0
Coulter 1994	um	STDDEV	5.3	5.4	3.7	4.7
Coulter 1994	-	SKEWNESS	0.5	0.4	0.4	-0.4
Coulter 1994	-	KURTOSIS	0.0	-0.3	0.6	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.4	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.5	0.6	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.6	0.6	0.7	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.9	0.9	1.1	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.5	1.5	1.8	0.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.6	2.5	3.2	1.4
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.2	3.9	5.2	2.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.3	5.8	7.8	3.6
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.2	7.6	10.1	4.8
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	9.9	9.3	12.3	6.1
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	10.4	9.8	12.6	6.7
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	9.1	8.6	10.5	6.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	7.7	7.5	8.3	5.3
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.5	6.6	6.7	4.9
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.6	5.9	5.3	4.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.9	5.5	3.8	6.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.7	5.3	3.2	14.0
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.4	3.8	2.2	15.3
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	2.0	2.4	1.3	7.1
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	1.5	2.1	0.8	2.8
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.4	2.0	0.5	1.7
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.7	2.5	0.9	2.2
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.4	2.9	0.7	2.2
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	3.5	2.4	ND	0.9
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	15.0			
Coulter 1994	um	INORG MEDIAN	12.0			
Coulter 1994	um	INORG MODE	10.0			
Coulter 1994	um	INORG STD DEV	4.8			
Coulter 1994	-	INORG SKEWNESS	0.4			
Coulter 1994	-	INORG KURTOSIS	-0.4			

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		SITE_ID	ORT19	ORT20	ORT20	ORT20
		FIELD_ID	LSJ98SORT19A	LSJ98SORT20SA	LSJ98SORT20MA	LSJ98SORT20LA
ANAL_MET	**UNIT**	**PARAMETER**				
SM17 2540G	% of wet weight	PERCENT MOISTURE	53.9	76.4	81.0	78.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	46.1	23.6	19.0	21.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	5.8	19.8	22.1	21.0
SW846 9060	mg / kg	TOC	26700.0	110000.0	146000.0	120000.0
Folk 1994	% of dry volume	PERCENT SAND	56.0	25.2	20.3	22.6
Folk 1994	% of dry volume	PERCENT SILT	39.6	67.8	73.5	70.4
Folk 1994	% of dry volume	PERCENT CLAY	4.4	7.0	6.2	7.1
Folk 1994	% of dry volume	PERCENT MUD	44.0	74.8	79.7	77.5
Coulter 1994	um	MEAN	64.1	26.8	22.8	26.4
Coulter 1994	um	MEDIAN	107.0	22.8	21.3	21.3
Coulter 1994	um	MODE	185.0	18.0	18.0	18.0
Coulter 1994	um	STDDEV	4.9	4.3	3.4	4.7
Coulter 1994	-	SKEWNESS	-0.4	0.4	0.1	0.7
Coulter 1994	-	KURTOSIS	-0.5	0.4	0.2	0.8
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	0.3	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.3	0.5	0.4	0.5
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.5	0.7	0.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.7	1.0	0.8	1.0
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.0	1.6	1.4	1.6
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.7	2.8	2.6	2.9
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.7	4.5	4.5	4.7
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	4.0	6.6	6.9	7.0
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	5.2	8.7	9.3	9.2
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	6.3	10.7	11.8	11.3
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	6.6	11.5	12.7	12.0
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	5.7	10.1	11.2	10.5
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.8	8.5	9.3	8.7
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.3	7.2	7.9	7.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	3.6	5.8	6.4	5.4
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.6	4.6	4.8	3.8
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	14.5	4.4	3.7	2.9
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	16.4	3.3	2.6	1.8
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	6.9	1.9	1.6	1.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.1	1.1	0.7	1.0
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	1.7	0.6	ND	0.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	2.0	1.0	ND	1.2
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.1	1.3	ND	1.9
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.2	1.1	ND	2.6
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	66.0	15.0		
Coulter 1994	um	INORG MEDIAN	150.0	13.0		
Coulter 1994	um	INORG MODE	185.0	10.0		
Coulter 1994	um	INORG STD DEV	4.9	3.9		
Coulter 1994	-	INORG SKEWNESS	-1.1	0.3		
Coulter 1994	-	INORG KURTOSIS	-0.3	-0.5		

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		SITE_ID	ORT21	ORT21	ORT21	ORT22
		FIELD_ID	LSJ98SORT21SA	LSJ98SORT21MA	LSJ98SORT21LA	LSJ98SORT22B
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	72.9	77.5	78.1	81.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	27.1	22.5	21.9	19.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	18.1	22.6	23.4	19.5
SW846 9060	mg / kg	TOC	125000.0	147000.0	124000.0	138000.0
Folk 1994	% of dry volume	PERCENT SAND	73.6	74.0	67.2	29.5
Folk 1994	% of dry volume	PERCENT SILT	24.2	24.1	30.7	65.0
Folk 1994	% of dry volume	PERCENT CLAY	2.2	1.9	2.2	5.5
Folk 1994	% of dry volume	PERCENT MUD	26.4	26.0	32.9	70.5
Coulter 1994	um	MEAN	191.0	187.0	116.0	31.1
Coulter 1994	um	MEDIAN	334.0	324.0	130.0	27.0
Coulter 1994	um	MODE	825.0	751.0	154.0	19.8
Coulter 1994	um	STDDEV	5.5	5.2	4.6	4.2
Coulter 1994	-	SKEWNESS	-0.8	-0.8	-0.4	0.3
Coulter 1994	-	KURTOSIS	-0.3	-0.3	-0.2	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	ND	0.2	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.3	0.4	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.6	0.5	0.6	1.2
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.0	0.9	0.9	2.2
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.4	1.3	1.2	3.7
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.9	1.8	1.7	5.7
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.4	2.3	2.3	7.8
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	3.0	2.9	3.1	10.1
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.6	3.5	4.1	11.1
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	3.8	3.8	5.0	10.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.0	4.2	6.1	8.8
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.1	4.5	7.0	7.9
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.0	4.5	7.7	7.0
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.1	4.6	8.6	6.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.8	4.9	9.2	5.3
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.4	5.3	8.2	3.6
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	6.4	6.5	7.4	2.0
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	9.5	9.8	7.6	1.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	12.7	13.6	6.9	1.0
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	13.6	13.8	5.5	1.0
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	8.6	8.4	3.4	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	2.0	2.7	1.3	1.1
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	2.6	ND	1.5	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

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		SITE_ID	ORT22	ORT23	ORT23	ORT23
		FIELD_ID	LSJ98SORT22A	LSJ98SORT23SA	LSJ98SORT23MA	LSJ98SORT23LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	81.0	72.8	77.4	76.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	19.0	27.2	22.6	24.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	17.3	20.4	21.6	17.5
SW846 9060	mg / kg	TOC	100000.0	140000.0	150000.0	134000.0
Folk 1994	% of dry volume	PERCENT SAND	30.4	69.8	63.7	57.0
Folk 1994	% of dry volume	PERCENT SILT	64.7	26.9	33.5	39.1
Folk 1994	% of dry volume	PERCENT CLAY	5.0	3.3	2.8	3.9
Folk 1994	% of dry volume	PERCENT MUD	69.7	30.2	36.3	43.0
Coulter 1994	um	MEAN	32.9	175.0	109.0	74.7
Coulter 1994	um	MEDIAN	28.9	351.0	138.0	86.3
Coulter 1994	um	MODE	19.8	825.0	568.0	154.0
Coulter 1994	um	STDDEV	4.1	6.6	5.2	4.7
Coulter 1994	-	SKEWNESS	0.3	-0.7	-0.5	-0.4
Coulter 1994	-	KURTOSIS	0.3	-0.7	-0.6	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.4	ND	ND	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.5	0.3	0.2	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.7	0.5	0.4	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.1	0.9	0.7	1.0
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.9	1.4	1.2	1.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	3.3	2.0	1.7	2.1
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	5.2	2.7	2.4	2.8
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	7.3	3.3	3.2	3.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	9.7	3.8	4.1	4.5
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.1	4.1	5.0	5.6
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	10.4	3.9	5.4	6.3
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	9.3	3.6	5.8	6.9
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	8.2	3.5	6.0	7.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.1	3.3	5.9	7.5
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	6.1	3.4	6.1	8.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.6	4.0	6.7	8.7
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.8	4.3	6.8	8.2
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	2.1	4.8	7.5	7.3
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	1.4	6.9	9.3	6.9
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.8	11.1	9.8	5.1
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	1.1	14.1	7.6	3.5
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.3	11.1	3.1	1.7
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.0	6.8	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	0.9	ND
Coulter 1994	um	INORG MEAN	15.0			
Coulter 1994	um	INORG MEDIAN	11.0			
Coulter 1994	um	INORG MODE	9.0			
Coulter 1994	um	INORG STD DEV	5.0			
Coulter 1994	-	INORG SKEWNESS	0.5			
Coulter 1994	-	INORG KURTOSIS	-0.5			

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		SITE_ID	ORT24	ORT24	ORT24	ORT25
		FIELD_ID	LSJ98SORT24SA	LSJ98SORT24MA	LSJ98SORT24LA	LSJ98SORT25SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.0	77.5	76.8	77.9
SM17 2540G	% of wet weight	TOTAL SOLIDS	22.0	22.5	23.2	22.1
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	25.3	22.4	22.9	27.5
SW846 9060	mg / kg	TOC	149000.0	145000.0	159000.0	157000.0
Folk 1994	% of dry volume	PERCENT SAND	77.6	72.9	75.5	79.3
Folk 1994	% of dry volume	PERCENT SILT	20.8	25.3	23.0	19.1
Folk 1994	% of dry volume	PERCENT CLAY	1.7	1.8	1.6	1.6
Folk 1994	% of dry volume	PERCENT MUD	22.5	27.1	24.6	20.7
Coulter 1994	um	MEAN	229.0	148.0	156.0	272.0
Coulter 1994	um	MEDIAN	402.0	211.0	182.0	511.0
Coulter 1994	um	MODE	905.0	568.0	568.0	905.0
Coulter 1994	um	STDDEV	5.2	4.4	4.2	5.2
Coulter 1994	-	SKEWNESS	-0.9	-0.8	-0.7	-1.0
Coulter 1994	-	KURTOSIS	-0.1	0.0	0.3	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.3	0.3	0.2
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	0.5	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.8	0.8	0.6	0.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.1	1.1	0.8	1.0
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.5	1.5	1.1	1.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	1.9	2.0	1.4	1.7
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.5	2.7	2.0	2.2
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.0	3.5	2.8	2.8
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	3.2	4.2	3.8	3.1
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	3.6	4.9	4.9	3.4
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.0	5.5	6.2	3.7
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.2	5.7	7.2	3.7
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.6	6.3	8.4	3.7
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.9	7.1	9.1	3.7
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.1	8.0	8.9	4.0
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	5.9	9.6	8.6	5.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	8.4	12.0	9.3	8.4
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	12.1	12.3	9.4	12.5
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	14.8	8.9	8.2	15.7
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	11.9	3.0	5.0	13.8
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	5.7	ND	1.5	8.6
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT25	ORT25	ORT26	ORT26
		FIELD_ID	LSJ98SORT25MA	LSJ98SORT25LA	LSJ98SORT26SA	LSJ98SORT26MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.1	78.0	79.4	78.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.9	22.0	20.6	21.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	26.7	24.8	24.9	26.6
SW846 9060	mg / kg	TOC	152000.0	143000.0	151000.0	164000.0
Folk 1994	% of dry volume	PERCENT SAND	74.8	68.9	74.5	67.8
Folk 1994	% of dry volume	PERCENT SILT	23.4	29.1	23.7	29.9
Folk 1994	% of dry volume	PERCENT CLAY	1.9	2.0	1.8	2.3
Folk 1994	% of dry volume	PERCENT MUD	25.3	31.1	25.5	32.2
Coulter 1994	um	MEAN	229.0	136.0	171.0	127.0
Coulter 1994	um	MEDIAN	447.0	147.0	264.0	156.0
Coulter 1994	um	MODE	905.0	825.0	623.0	568.0
Coulter 1994	um	STDDEV	5.7	4.9	4.7	5.0
Coulter 1994	-	SKEWNESS	-0.8	-0.5	-0.8	-0.5
Coulter 1994	-	KURTOSIS	-0.4	-0.4	-0.1	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	ND	ND	0.2
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.3	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	0.5	0.5	0.6
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.8	0.8	0.8	1.0
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.2	1.2	1.2	1.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.7	1.6	1.6	2.0
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.2	2.1	2.1	2.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.8	2.8	2.7	3.4
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.4	3.8	3.3	4.2
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	3.7	4.8	3.7	4.8
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.1	5.9	4.3	5.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.3	7.0	4.8	6.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.1	7.5	5.2	6.3
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	3.9	7.8	5.7	6.9
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	3.9	7.5	6.1	7.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.9	6.6	6.3	7.1
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	4.7	6.1	7.7	7.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	6.7	6.7	11.4	8.9
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	10.3	8.0	13.8	9.1
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	14.9	9.1	11.9	7.9
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	13.9	6.7	5.7	4.9
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	8.5	2.9	0.5	1.9
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	0.3
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

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		SITE_ID	ORT26	ORT27	ORT27	ORT27
		FIELD_ID	LSJ98SORT26LA	LSJ98SORT27SA	LSJ98SORT27MA	LSJ98SORT27LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.2	73.2	73.0	63.6
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.8	26.8	27.0	36.4
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	26.9	25.2	22.1	13.8
SW846 9060	mg / kg	TOC	147000.0	146000.0	153000.0	71400.0
Folk 1994	% of dry volume	PERCENT SAND	69.6	28.8	34.0	54.8
Folk 1994	% of dry volume	PERCENT SILT	28.5	62.9	58.2	41.5
Folk 1994	% of dry volume	PERCENT CLAY	1.9	8.3	7.8	3.7
Folk 1994	% of dry volume	PERCENT MUD	30.4	71.2	66.0	45.2
Coulter 1994	um	MEAN	131.0	29.0	35.4	76.6
Coulter 1994	um	MEDIAN	150.0	25.6	30.1	82.7
Coulter 1994	um	MODE	684.0	18.0	19.8	2380.0
Coulter 1994	um	STDDEV	4.6	4.8	5.4	5.7
Coulter 1994	-	SKEWNESS	-0.5	0.4	0.3	0.0
Coulter 1994	-	KURTOSIS	-0.2	0.0	-0.3	-0.6
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	0.3	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	0.6	0.5	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	0.8	0.7	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	1.2	1.2	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	2.0	1.9	0.9
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.8	3.3	3.1	1.5
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.1	4.9	4.6	2.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.6	6.7	6.1	3.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.0	8.0	7.3	4.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.8	9.0	8.3	5.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.7	9.3	8.6	6.5
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	4.6	8.6	8.0	6.3
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.8	8.4	7.8	6.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.9	8.1	7.5	6.2
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.5	6.9	6.6	5.9
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	7.9	5.4	5.5	7.1
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	8.1	4.0	4.5	9.6
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	7.7	2.6	3.3	8.5
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	7.3	2.0	2.8	5.0
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	8.0	2.1	2.8	3.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	8.7	1.7	2.5	2.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	8.1	1.5	2.7	3.5
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	4.8	1.5	2.0	3.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.3	1.1	0.4	2.8
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	1.0	2.7
Coulter 1994	um	INORG MEAN		10.0		
Coulter 1994	um	INORG MEDIAN		10.0		
Coulter 1994	um	INORG MODE		12.0		
Coulter 1994	um	INORG STD DEV		4.0		
Coulter 1994	-	INORG SKEWNESS		0.5		
Coulter 1994	-	INORG KURTOSIS		1.2		

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		SITE_ID	ORT28	ORT28	ORT28	ORT29
		FIELD_ID	LSJ98SORT28SA	LSJ98SORT28MA	LSJ98SORT28LA	LSJ98SORT29SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	80.3	79.2	81.1	73.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	19.7	20.8	18.9	27.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	25.3	24.0	30.7	20.4
SW846 9060	mg / kg	TOC	161000.0	141000.0	164000.0	128000.0
Folk 1994	% of dry volume	PERCENT SAND	76.5	71.0	58.3	41.1
Folk 1994	% of dry volume	PERCENT SILT	21.7	27.0	38.8	52.4
Folk 1994	% of dry volume	PERCENT CLAY	1.8	2.0	2.9	6.5
Folk 1994	% of dry volume	PERCENT MUD	23.5	29.0	41.7	58.9
Coulter 1994	um	MEAN	135.0	122.0	71.5	54.4
Coulter 1994	um	MEDIAN	193.0	159.0	83.6	38.5
Coulter 1994	um	MODE	324.0	391.0	140.0	2380.0
Coulter 1994	um	STDDEV	3.8	4.1	3.8	7.4
Coulter 1994	-	SKEWNESS	-1.0	-0.8	-0.6	0.4
Coulter 1994	-	KURTOSIS	0.8	0.1	0.2	-0.8
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	ND	0.3	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.3	0.5	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	0.5	0.7	1.6
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.8	0.8	1.1	2.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.1	1.2	1.6	4.1
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.5	1.6	2.2	5.6
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.0	2.1	2.8	6.8
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.5	2.8	3.8	7.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.0	3.6	5.2	7.9
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	3.3	4.3	6.4	7.2
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	3.8	5.3	7.7	6.7
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.6	6.2	9.0	6.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.6	6.9	9.8	5.6
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	7.7	8.0	10.5	4.7
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	10.2	9.1	10.5	3.8
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	13.2	9.6	9.5	2.9
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	15.7	10.7	8.0	2.4
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	13.7	11.8	5.6	2.8
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	5.7	8.8	2.4	3.3
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	2.1	4.7	1.3	3.5
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	1.5	1.5	0.6	3.1
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.0	ND	ND	2.1
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	6.9
Coulter 1994	um	INORG MEAN				26.0
Coulter 1994	um	INORG MEDIAN				13.0
Coulter 1994	um	INORG MODE				2380.0
Coulter 1994	um	INORG STD DEV				11.8
Coulter 1994	-	INORG SKEWNESS				0.7
Coulter 1994	-	INORG KURTOSIS				-0.6

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		SITE_ID	ORT29	ORT29	ORT30	ORT30
		FIELD_ID	LSJ98SORT29MA	LSJ98SORT29LA	LSJ98SORT30SA	LSJ98SORT30MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.0	76.8	55.2	57.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	22.0	23.2	44.8	42.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	27.4	25.2	5.5	8.5
SW846 9060	mg / kg	TOC	154000.0	124000.0	23200.0	33600.0
Folk 1994	% of dry volume	PERCENT SAND	39.2	43.2	62.8	54.4
Folk 1994	% of dry volume	PERCENT SILT	56.2	52.3	34.1	40.4
Folk 1994	% of dry volume	PERCENT CLAY	4.6	4.5	3.1	5.2
Folk 1994	% of dry volume	PERCENT MUD	60.8	56.8	37.2	45.6
Coulter 1994	um	MEAN	44.8	48.4	68.7	56.1
Coulter 1994	um	MEDIAN	38.6	47.0	112.0	83.4
Coulter 1994	um	MODE	21.7	23.8	154.0	154.0
Coulter 1994	um	STDDEV	4.9	4.6	3.8	4.6
Coulter 1994	-	SKEWNESS	0.2	0.0	-0.8	-0.5
Coulter 1994	-	KURTOSIS	-0.5	-0.4	0.2	-0.6
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.3	0.3	0.2	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.4	0.4	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.7	0.7	0.5	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.1	1.1	0.8	1.3
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.0	1.8	1.3	2.2
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	3.2	2.9	2.0	3.2
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	4.8	4.2	2.9	4.3
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	6.3	5.5	3.8	5.1
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	8.0	7.0	4.8	5.8
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	9.1	8.1	5.4	6.1
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	8.8	8.2	5.2	5.7
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.4	8.3	5.1	5.2
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.8	8.3	5.1	5.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.0	8.1	5.8	5.4
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	6.4	7.9	12.2	9.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.6	7.1	20.4	14.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	4.1	5.2	14.9	10.5
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	3.2	3.8	5.6	6.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	3.2	3.5	2.0	4.7
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	3.4	2.8	0.5	2.2
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	3.4	2.2	0.7	1.3
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.3	1.7	0.7	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.6	0.8	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

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		SITE_ID	ORT30	ORT31	ORT31	ORT31
		FIELD_ID	LSJ98SORT30LA	LSJ98SORT31SA	LSJ98SORT31MA	LSJ98SORT31LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	69.2	73.3	75.8	56.6
SM17 2540G	% of wet weight	TOTAL SOLIDS	30.8	26.7	24.2	43.4
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	16.4	19.6	21.1	15.4
SW846 9060	mg / kg	TOC	73000.0	123000.0	111000.0	62000.0
Folk 1994	% of dry volume	PERCENT SAND	56.4	73.8	76.0	71.2
Folk 1994	% of dry volume	PERCENT SILT	39.3	24.4	22.3	25.1
Folk 1994	% of dry volume	PERCENT CLAY	4.3	1.8	1.7	3.7
Folk 1994	% of dry volume	PERCENT MUD	43.6	26.2	24.0	28.8
Coulter 1994	um	MEAN	83.3	161.0	161.0	143.0
Coulter 1994	um	MEDIAN	100.0	191.0	194.0	175.0
Coulter 1994	um	MODE	684.0	2380.0	169.0	2380.0
Coulter 1994	um	STDDEV	5.9	5.0	4.4	6.1
Coulter 1994	-	SKEWNESS	-0.3	-0.5	-0.7	-0.5
Coulter 1994	-	KURTOSIS	-1.0	0.0	0.2	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.4	ND	ND	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.7	0.3	0.3	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.2	0.5	0.4	1.0
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.9	0.7	0.6	1.4
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.8	1.0	0.9	1.9
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	3.8	1.5	1.2	2.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	4.7	1.9	1.6	2.9
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	5.6	2.6	2.3	3.3
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	6.1	3.3	3.1	3.6
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	5.9	3.8	3.6	3.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.4	4.6	4.3	3.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	5.1	5.6	5.2	4.1
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.7	6.2	6.2	5.3
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.0	7.3	7.9	6.9
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	6.2	8.5	9.4	9.3
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.9	8.5	9.5	9.1
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	5.8	8.7	9.1	6.3
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	7.6	9.8	9.4	5.8
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	9.1	8.6	8.3	5.8
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	8.0	5.8	7.1	7.1
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	3.8	2.3	5.5	7.1
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.2	ND	3.5	4.9
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	8.0	ND	3.5
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	ORT32	ORT32	ORT32	ORT33
		FIELD_ID	LSJ98SORT32SA	LSJ98SORT32MA	LSJ98SORT32LA	LSJ98SORT33B
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	74.5	76.2	65.0	61.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	25.5	23.8	35.0	39.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	20.5	17.9	10.8	7.3
SW846 9060	mg / kg	TOC	114000.0	107000.0	42400.0	41100.0
Folk 1994	% of dry volume	PERCENT SAND	72.7	58.8	69.6	53.3
Folk 1994	% of dry volume	PERCENT SILT	25.5	38.4	27.8	43.2
Folk 1994	% of dry volume	PERCENT CLAY	1.8	2.8	2.6	3.5
Folk 1994	% of dry volume	PERCENT MUD	27.3	41.2	30.4	46.7
Coulter 1994	um	MEAN	174.0	91.8	117.0	61.8
Coulter 1994	um	MEDIAN	253.0	96.2	155.0	76.6
Coulter 1994	um	MODE	825.0	140.0	185.0	154.0
Coulter 1994	um	STDDEV	5.2	5.0	4.6	4.5
Coulter 1994	-	SKEWNESS	-0.7	-0.3	-0.7	-0.2
Coulter 1994	-	KURTOSIS	-0.4	-0.6	-0.1	-0.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	0.3	0.2	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.4	0.4	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	0.7	0.7	0.8
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.8	1.1	1.0	1.2
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.2	1.7	1.5	2.0
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.8	2.5	2.1	3.2
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.3	3.3	2.7	4.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	3.0	4.5	3.4	6.2
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.7	5.8	4.1	7.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	4.0	6.5	4.3	7.3
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.5	7.0	4.7	6.6
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.9	7.2	5.1	6.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.0	7.0	5.5	5.8
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.5	7.2	7.6	9.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	6.1	7.4	11.2	14.4
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.9	6.5	11.3	9.7
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	6.2	5.8	8.5	3.7
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	8.6	6.2	7.7	2.5
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	11.5	6.5	7.2	2.0
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	12.3	6.6	6.2	2.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	8.3	4.4	3.7	2.5
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	3.2	1.3	0.7	1.0
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	0.2	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT33	ORT34	ORT34	ORT35
		FIELD_ID	LSJ98SORT33A	LSJ98SORT34SA	LSJ98SORT34MA	LSJ98SORT35SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	56.7	79.7	78.6	77.7
SM17 2540G	% of wet weight	TOTAL SOLIDS	43.3	20.3	21.4	22.3
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	7.6	23.7	19.2	23.5
SW846 9060	mg / kg	TOC	45200.0	166000.0	155000.0	136000.0
Folk 1994	% of dry volume	PERCENT SAND	55.0	31.7	24.5	73.9
Folk 1994	% of dry volume	PERCENT SILT	41.2	61.7	68.9	23.5
Folk 1994	% of dry volume	PERCENT CLAY	3.8	6.6	6.6	2.7
Folk 1994	% of dry volume	PERCENT MUD	45.0	68.3	75.5	26.2
Coulter 1994	um	MEAN	61.2	31.6	26.0	157.0
Coulter 1994	um	MEDIAN	85.0	28.6	23.2	240.0
Coulter 1994	um	MODE	154.0	18.0	18.0	391.0
Coulter 1994	um	STDDEV	4.5	4.4	4.0	5.2
Coulter 1994	-	SKEWNESS	-0.3	0.2	0.3	-0.7
Coulter 1994	-	KURTOSIS	-0.2	-0.1	0.5	-0.1
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.2	0.3	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.3	0.5	0.5	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.4	0.6	0.6	0.2
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.6	0.9	0.9	0.4
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.9	1.5	1.5	0.7
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.4	2.6	2.7	1.1
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.2	4.0	4.3	1.6
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	3.4	5.9	6.5	2.2
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	4.7	7.6	8.6	2.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	6.2	9.2	10.8	3.1
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	7.0	9.8	11.6	3.4
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	6.5	9.0	10.3	3.4
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.8	8.3	8.9	3.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	5.4	8.0	7.9	3.8
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.7	7.4	6.7	4.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	10.2	6.6	5.5	5.2
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	15.6	5.7	4.5	6.9
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	10.2	3.6	2.6	8.8
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	3.8	2.2	1.4	11.2
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.4	1.8	0.9	13.0
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	2.2	1.4	0.5	9.6
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	2.4	1.7	0.8	5.8
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.0	1.3	1.0	3.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.5	ND	0.7	2.7
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	3.0
Coulter 1994	um	INORG MEAN	58.0	21.0		
Coulter 1994	um	INORG MEDIAN	124.0	14.0		
Coulter 1994	um	INORG MODE	154.0	9.0		
Coulter 1994	um	INORG STD DEV	4.7	5.7		
Coulter 1994	-	INORG SKEWNESS	-1.2	0.6		
Coulter 1994	-	INORG KURTOSIS	0.0	-0.3		

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		SITE_ID	ORT35	ORT35	ORT36	ORT36
		FIELD_ID	LSJ98SORT35MA	LSJ98SORT35LA	LSJ98SORT36SA	LSJ98SORT36MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	78.9	76.9	76.7	80.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	21.1	23.1	23.3	20.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	23.6	24.0	28.5	24.7
SW846 9060	mg / kg	TOC	131000.0	162000.0	166000.0	149000.0
Folk 1994	% of dry volume	PERCENT SAND	76.3	67.8	67.6	74.3
Folk 1994	% of dry volume	PERCENT SILT	21.5	29.7	29.1	23.9
Folk 1994	% of dry volume	PERCENT CLAY	2.2	2.4	3.3	1.8
Folk 1994	% of dry volume	PERCENT MUD	23.7	32.1	32.4	25.7
Coulter 1994	um	MEAN	173.0	119.0	141.0	198.0
Coulter 1994	um	MEDIAN	287.0	145.0	251.0	312.0
Coulter 1994	um	MODE	471.0	185.0	751.0	905.0
Coulter 1994	um	STDDEV	4.9	5.0	6.0	5.3
Coulter 1994	-	SKEWNESS	-1.0	-0.4	-0.7	-0.7
Coulter 1994	-	KURTOSIS	0.2	-0.2	-0.7	-0.4
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	0.2	0.3	ND
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.4	0.5	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.6	0.6	0.9	0.5
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.0	1.0	1.4	0.8
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.4	1.5	2.1	1.1
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	2.0	2.1	2.8	1.6
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.4	2.7	3.4	2.0
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.8	3.5	4.0	2.7
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.1	4.2	4.3	3.3
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	3.1	4.7	4.2	3.8
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	3.2	5.3	4.2	4.4
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	3.5	5.9	4.2	4.9
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.0	6.4	4.2	5.1
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.8	7.7	4.2	5.2
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	6.0	9.6	4.5	5.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	7.7	9.9	4.7	5.2
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	10.6	8.7	5.9	5.9
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	14.7	7.3	9.3	8.2
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	13.4	4.9	13.1	10.6
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	8.7	4.0	13.5	12.5
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	4.1	4.1	7.5	10.3
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	1.6	3.8	0.9	5.6
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	0.7	1.6	ND	0.7
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
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		SITE_ID	ORT36	ORT37	ORT37	ORT37
		FIELD_ID	LSJ98SORT36LA	LSJ98SORT37SA	LSJ98SORT37MA	LSJ98SORT37LA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	81.5	79.2	79.7	78.8
SM17 2540G	% of wet weight	TOTAL SOLIDS	18.5	20.8	20.3	21.2
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	27.5	25.0	22.2	21.6
SW846 9060	mg / kg	TOC	159000.0	146000.0	155000.0	123000.0
Folk 1994	% of dry volume	PERCENT SAND	71.5	68.9	69.0	71.0
Folk 1994	% of dry volume	PERCENT SILT	26.7	28.8	29.1	27.2
Folk 1994	% of dry volume	PERCENT CLAY	1.8	2.3	1.9	1.9
Folk 1994	% of dry volume	PERCENT MUD	28.5	31.1	31.0	29.1
Coulter 1994	um	MEAN	142.0	102.0	102.0	104.0
Coulter 1994	um	MEDIAN	170.0	138.0	129.0	133.0
Coulter 1994	um	MODE	751.0	296.0	245.0	223.0
Coulter 1994	um	STDDEV	4.5	3.9	3.7	3.5
Coulter 1994	-	SKEWNESS	-0.6	-0.8	-0.7	-0.9
Coulter 1994	-	KURTOSIS	-0.2	0.3	0.5	0.8
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	ND	0.2	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.3	0.4	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	0.5	0.6	0.5	0.5
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	0.7	0.9	0.8	0.7
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	1.1	1.3	1.1	1.0
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	1.5	1.8	1.6	1.4
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	2.0	2.4	2.1	1.9
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	2.7	3.1	2.8	2.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	3.5	3.9	3.8	3.5
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	4.3	4.5	4.7	4.3
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	5.3	5.4	5.9	5.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.3	6.4	7.1	6.9
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.9	7.4	8.1	8.3
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	7.7	8.8	10.0	10.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	8.0	10.3	11.7	12.7
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	7.5	11.7	12.3	13.5
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	7.4	12.9	11.5	12.1
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	8.5	11.0	8.4	8.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	9.8	4.5	3.4	3.1
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	9.5	1.6	1.7	1.4
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	5.5	0.8	1.4	0.9
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.8	ND	0.6	ND
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN				
Coulter 1994	um	INORG MEDIAN				
Coulter 1994	um	INORG MODE				
Coulter 1994	um	INORG STD DEV				
Coulter 1994	-	INORG SKEWNESS				
Coulter 1994	-	INORG KURTOSIS				

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(FIELD DATA)

		SITE_ID	ORT38	ORT38	ORT39	ORT39
		FIELD_ID	LSJ98SORT38SA	LSJ98SORT38MA	LSJ98SORT39SA	LSJ98SORT39MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	79.9	80.1	79.1	78.9
SM17 2540G	% of wet weight	TOTAL SOLIDS	20.1	19.9	20.9	21.1
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	27.2	28.0	29.1	33.0
SW846 9060	mg / kg	TOC	153000.0	169000.0	179000.0	192000.0
Folk 1994	% of dry volume	PERCENT SAND	60.4	72.2	48.8	46.9
Folk 1994	% of dry volume	PERCENT SILT	35.6	25.9	45.9	47.7
Folk 1994	% of dry volume	PERCENT CLAY	3.9	1.9	5.3	5.4
Folk 1994	% of dry volume	PERCENT MUD	39.5	27.8	51.2	53.1
Coulter 1994	um	MEAN	98.5	184.0	60.9	55.8
Coulter 1994	um	MEDIAN	138.0	304.0	58.5	53.3
Coulter 1994	um	MODE	568.0	905.0	19.8	21.7
Coulter 1994	um	STDDEV	6.0	5.5	5.8	5.5
Coulter 1994	-	SKEWNESS	-0.4	-0.7	-0.1	0.0
Coulter 1994	-	KURTOSIS	-0.9	-0.5	-0.8	-0.7
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	ND	ND	0.3	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.3	ND	0.5	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.6	0.3	0.8	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.0	0.5	1.3	1.4
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	1.7	0.9	2.2	2.2
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	2.5	1.3	3.3	3.3
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	3.5	1.9	4.5	4.5
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	4.4	2.4	5.5	5.5
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	5.1	3.1	6.4	6.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	5.4	3.8	6.9	7.2
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	5.1	4.1	6.5	7.0
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	4.9	4.5	6.4	6.9
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	4.8	4.7	6.5	6.8
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	4.6	4.7	6.3	6.6
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	4.6	4.7	6.3	6.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.0	4.8	5.9	6.3
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	5.5	4.9	5.0	5.3
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	7.1	5.7	4.7	4.5
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	10.0	8.1	5.5	4.9
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	10.6	11.0	5.4	4.9
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	8.6	13.1	4.9	4.2
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	4.2	10.3	3.4	2.7
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	0.3	4.9	1.5	1.0
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN			12.0	
Coulter 1994	um	INORG MEDIAN			12.0	
Coulter 1994	um	INORG MODE			14.0	
Coulter 1994	um	INORG STD DEV			3.4	
Coulter 1994	-	INORG SKEWNESS			0.6	
Coulter 1994	-	INORG KURTOSIS			1.7	

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	ORT39-1	ORT39-1	ORT39-1	ORT40
		FIELD_ID	LSJ98SORT391SA	LSJ98SORT391MA	LSJ98SORT391LA	LSJ98SORT40SA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	80.1	81.1	81.4	84.1
SM17 2540G	% of wet weight	TOTAL SOLIDS	19.9	18.9	18.6	15.9
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	29.9	28.4	25.1	28.2
SW846 9060	mg / kg	TOC	189000.0	190000.0	184000.0	165000.0
Folk 1994	% of dry volume	PERCENT SAND	34.1	35.5	27.6	35.1
Folk 1994	% of dry volume	PERCENT SILT	58.6	57.7	66.4	57.3
Folk 1994	% of dry volume	PERCENT CLAY	7.4	6.8	6.1	7.6
Folk 1994	% of dry volume	PERCENT MUD	66.0	64.5	72.5	64.9
Coulter 1994	um	MEAN	36.2	38.3	30.3	33.0
Coulter 1994	um	MEDIAN	28.7	31.4	25.2	30.7
Coulter 1994	um	MODE	18.0	18.0	18.0	18.0
Coulter 1994	um	STDDEV	5.5	5.5	4.5	4.7
Coulter 1994	-	SKEWNESS	0.3	0.4	0.5	0.1
Coulter 1994	-	KURTOSIS	-0.4	-0.2	0.3	-0.2
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.3	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.5	0.4	0.6
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.7	0.5	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.1	1.0	0.8	1.1
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.8	1.6	1.4	1.8
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.9	2.6	2.5	2.8
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.4	4.0	4.2	4.2
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.1	5.7	6.3	5.9
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	7.6	7.2	8.3	7.3
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	8.9	8.7	10.3	8.6
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	9.3	9.2	11.0	8.8
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	8.2	8.3	9.8	7.9
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	7.4	7.6	8.7	7.3
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	6.8	7.2	7.8	7.3
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	5.9	6.5	6.4	7.5
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.1	5.8	5.0	7.6
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	4.8	5.3	4.3	6.7
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.5	4.0	2.9	4.3
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	2.7	2.5	1.8	2.6
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	2.6	1.9	1.5	1.7
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	2.3	1.8	1.1	1.0
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	2.6	1.9	1.2	1.6
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	2.8	2.4	1.6	1.6
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	2.0	3.4	1.8	0.7
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN	14.0			
Coulter 1994	um	INORG MEDIAN	11.0			
Coulter 1994	um	INORG MODE	8.0			
Coulter 1994	um	INORG STD DEV	4.6			
Coulter 1994	-	INORG SKEWNESS	0.6			
Coulter 1994	-	INORG KURTOSIS	0.2			

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	ORT40	ORT40	ORT41	ORT41
		FIELD_ID	LSJ98SORT40MA	LSJ98SORT40LA	LSJ98SORT41SA	LSJ98SORT41MA
ANAL_MET	UNIT	PARAMETER				
SM17 2540G	% of wet weight	PERCENT MOISTURE	82.1	81.6	83.1	82.2
SM17 2540G	% of wet weight	TOTAL SOLIDS	17.9	18.4	16.9	17.8
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	32.9	31.3	27.7	32.4
SW846 9060	mg / kg	TOC	203000.0	197000.0	216000.0	226000.0
Folk 1994	% of dry volume	PERCENT SAND	25.2	23.4	44.2	46.0
Folk 1994	% of dry volume	PERCENT SILT	67.8	70.3	50.8	48.6
Folk 1994	% of dry volume	PERCENT CLAY	6.9	6.3	5.0	5.5
Folk 1994	% of dry volume	PERCENT MUD	74.7	76.6	55.8	54.1
Coulter 1994	um	MEAN	25.3	25.2	55.2	57.2
Coulter 1994	um	MEDIAN	23.7	23.5	46.3	50.2
Coulter 1994	um	MODE	18.0	18.0	19.8	19.8
Coulter 1994	um	STDDEV	3.8	3.7	5.9	6.1
Coulter 1994	-	SKEWNESS	0.1	0.2	0.2	0.1
Coulter 1994	-	KURTOSIS	0.1	0.3	-0.7	-0.7
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND	ND	ND	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	0.3	0.3	0.2	0.2
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.5	0.4	0.4	0.4
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.7	0.6	0.5	0.6
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	1.0	0.8	0.7	0.8
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.6	1.5	1.2	1.3
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.8	2.7	2.0	2.1
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	4.5	4.4	3.1	3.2
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	6.6	6.5	4.6	4.6
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	8.5	8.6	6.0	5.9
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	10.4	10.7	7.5	7.1
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	11.1	11.5	8.1	7.7
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	9.9	10.5	7.6	7.1
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	8.9	9.5	7.1	6.6
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	8.1	8.6	6.7	6.4
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	7.1	7.2	6.3	6.1
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	6.1	5.6	5.9	6.0
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.1	4.2	5.8	6.5
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	3.0	2.4	4.8	4.9
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	1.5	1.4	3.7	3.6
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	0.9	0.8	3.3	3.8
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	0.4	0.5	3.0	3.3
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	0.6	0.8	3.3	3.8
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	0.5	0.6	3.9	4.3
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	ND	ND	4.2	3.9
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND	ND	ND	ND
Coulter 1994	um	INORG MEAN			18.0	
Coulter 1994	um	INORG MEDIAN			13.0	
Coulter 1994	um	INORG MODE			12.0	
Coulter 1994	um	INORG STD DEV			4.7	
Coulter 1994	-	INORG SKEWNESS			0.9	
Coulter 1994	-	INORG KURTOSIS			0.9	

CEDAR AND ORTEGA RIVER BASIN ASSESSMENT
ANCILARY MEASUREMENTS - SEDIMENT
(FIELD DATA)

		SITE_ID	ORT41
		FIELD_ID	LSJ98SORT41LA
ANAL_MET	UNIT	PARAMETER	
SM17 2540G	% of wet weight	PERCENT MOISTURE	82.0
SM17 2540G	% of wet weight	TOTAL SOLIDS	18.0
SM17 2540G	% of dry weight	TOTAL VOLATILE SOLIDS	32.4
SW846 9060	mg / kg	TOC	203000.0
Folk 1994	% of dry volume	PERCENT SAND	40.4
Folk 1994	% of dry volume	PERCENT SILT	54.5
Folk 1994	% of dry volume	PERCENT CLAY	5.1
Folk 1994	% of dry volume	PERCENT MUD	59.6
Coulter 1994	um	MEAN	48.4
Coulter 1994	um	MEDIAN	38.8
Coulter 1994	um	MODE	19.8
Coulter 1994	um	STDDEV	5.6
Coulter 1994	-	SKEWNESS	0.3
Coulter 1994	-	KURTOSIS	-0.6
Coulter 1994	% of tot.sed.vo	VOL% 0-0.49 um	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.49-0.69 um	ND
Coulter 1994	% of tot.sed.vo	VOL% 0.69-0.98 um	0.3
Coulter 1994	% of tot.sed.vo	VOL% 0.98-1.38 um	0.5
Coulter 1994	% of tot.sed.vo	VOL% 1.38-1.95 um	0.7
Coulter 1994	% of tot.sed.vo	VOL% 1.95-2.76 um	1.2
Coulter 1994	% of tot.sed.vo	VOL% 2.76-3.91 um	2.1
Coulter 1994	% of tot.sed.vo	VOL% 3.91-5.52 um	3.4
Coulter 1994	% of tot.sed.vo	VOL% 5.52-7.81 um	5.1
Coulter 1994	% of tot.sed.vo	VOL% 7.81-11.0 um	6.6
Coulter 1994	% of tot.sed.vo	VOL% 11.0-15.6 um	8.2
Coulter 1994	% of tot.sed.vo	VOL% 15.6-22.1 um	8.8
Coulter 1994	% of tot.sed.vo	VOL% 22.1-31.0 um	8.1
Coulter 1994	% of tot.sed.vo	VOL% 31.0-44.0 um	7.5
Coulter 1994	% of tot.sed.vo	VOL% 44.0-62.5 um	7.0
Coulter 1994	% of tot.sed.vo	VOL% 62.5-88.0 um	6.2
Coulter 1994	% of tot.sed.vo	VOL% 88.0-125 um	5.5
Coulter 1994	% of tot.sed.vo	VOL% 125-177 um	5.2
Coulter 1994	% of tot.sed.vo	VOL% 177-250 um	4.1
Coulter 1994	% of tot.sed.vo	VOL% 250-350 um	3.4
Coulter 1994	% of tot.sed.vo	VOL% 350-500 um	3.3
Coulter 1994	% of tot.sed.vo	VOL% 500-710 um	3.1
Coulter 1994	% of tot.sed.vo	VOL% 710-1000 um	3.5
Coulter 1994	% of tot.sed.vo	VOL% 1000-1410 um	3.5
Coulter 1994	% of tot.sed.vo	VOL% 1410-2000 um	2.7
Coulter 1994	% of tot.sed.vo	VOL% 2000-2830 um	ND
Coulter 1994	um	INORG MEAN	
Coulter 1994	um	INORG MEDIAN	
Coulter 1994	um	INORG MODE	
Coulter 1994	um	INORG STD DEV	
Coulter 1994	-	INORG SKEWNESS	
Coulter 1994	-	INORG KURTOSIS	

Appendix H. Elutriate Water Calcium, Magnesium, Potassium, Sodium and Conductivity Data

CEDAR ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
6010M - Sediment Elutriate Data

FIELD_ID	CED01A	CED02A	CED06A	CED07A	CED08A	CED09A
BOS_ID	Y0839	Y0841	Y1525	Y1528	Y0842	Y0844
BATCH_ID	98-31	98-31	98-31	98-31	98-31	98-31
MATRIX	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate
ANAL_MET	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD
UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER						
Calicum	52500	63500	71300	53800	52500	41900
Magnesium	55300	72800	42200	51100	40800	42400
Potassium	15900	23700	16400	25700	14800	14200
Sodium	358000	572000	301000	473000	208000	241000
Conductivity (umhoms/cm)	2450	3340	1930	678	1560	1550
Method	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD

CEDAR ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
6010M - Sediment Elutriate Data

FIELD_ID	ORT08A	ORT15A	ORT21A	ORT23A	ORT25A	ORT25A-DUP
BOS_ID	Y0846	Y0849	Y1531	Y1516	Y1537	Y1537DUP
BATCH_ID	98-31	98-31	98-31	98-31	98-31	98-31
MATRIX	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate
ANAL_MET	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD
UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER						
Calicum	75600	40400	52600	69500	52600	50900
Magnesium	112000	52800	60500	65300	50500	48900
Potassium	32700	18600	27300	27700	17800	17400
Sodium	869000	368000	541000	571000	327000	327000
Conductivity (umhoms/cm)	5100	2160	3160	3280	2060	1990
Method	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD

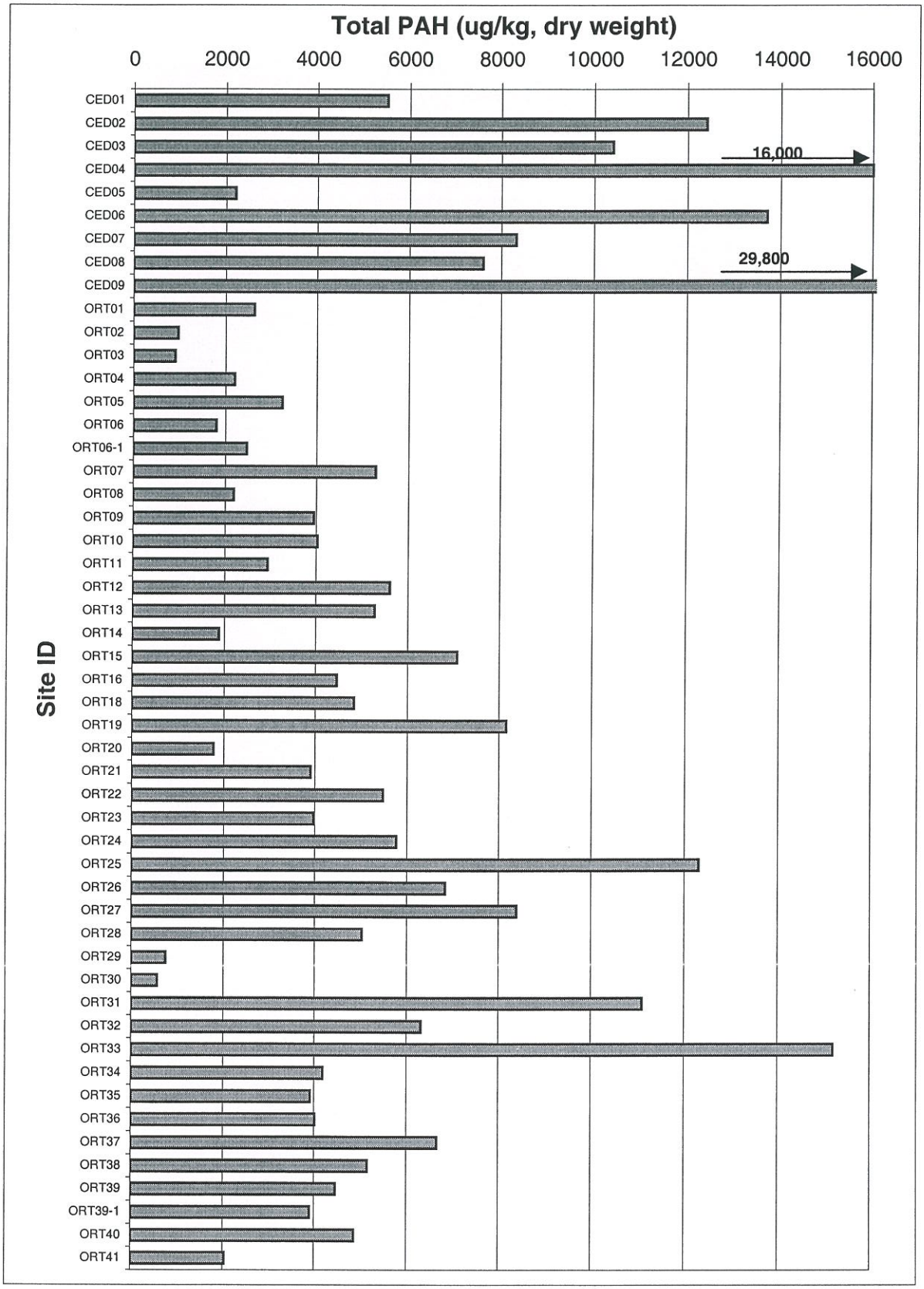
CEDAR ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
6010M - Sediment Elutriate Data

FIELD_ID	ORT26A	ORT27A	ORT28A	ORT29A	ORT31A	ORT32A
BOS_ID	Y1540	Y0852	Y1543	Y0855	Y1546	Y1549
BATCH_ID	98-31	98-31	98-31	98-31	98-31	98-31
MATRIX	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate	Elutriate
ANAL_MET	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD	6010-MOD
UNIT	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PARAMETER						
Calicum	47000	65800	36400	60900	63700	61200
Magnesium	62900	93800	46300	52700	59800	105000
Potassium	25900	27700	19200	20500	27900	36300
Sodium	499000	705000	344000	394000	513000	868000
Conductivity (umhoms/cm)	2820	4020	2000	2550	5100	4740
Method	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD	9050-MOD

CEDAR ORTEGA RIVER BASIN ASSESSMENT
FIELD SAMPLE DATA
6010M - Sediment Elutriate Data

FIELD_ID	ORT35A	ORT36A	ORT37A	ORT39A
BOS_ID	Y1519	Y1552	Y1522	Y0837
BATCH_ID	98-31	98-31	98-31	98-31
MATRIX	Elutriate	Elutriate	Elutriate	Elutriate
ANAL_MET	6010-MOD	6010-MOD	6010-MOD	6010-MOD
UNIT	ug/L	ug/L	ug/L	ug/L
PARAMETER				
Calicum	54900	62800	48900	78900
Magnesium	56300	77300	58300	97400
Potassium	22600	24900	21400	29100
Sodium	453000	564000	472000	699000
Conductivity (umhoms/cm)	2710	3390	2820	4220
Method	9050-MOD	9050-MOD	9050-MOD	9050-MOD

Appendix I. Charts with Surface Sediment Organic Contaminant Concentration Data


Total PAH (ug/kg, dry weight)
0
2000
4000
6000
8000
10000
12000
14000
16000
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
ORT21
ORT22
ORT23
ORT24
ORT25
ORT26
ORT27
ORT28
ORT29
ORT30
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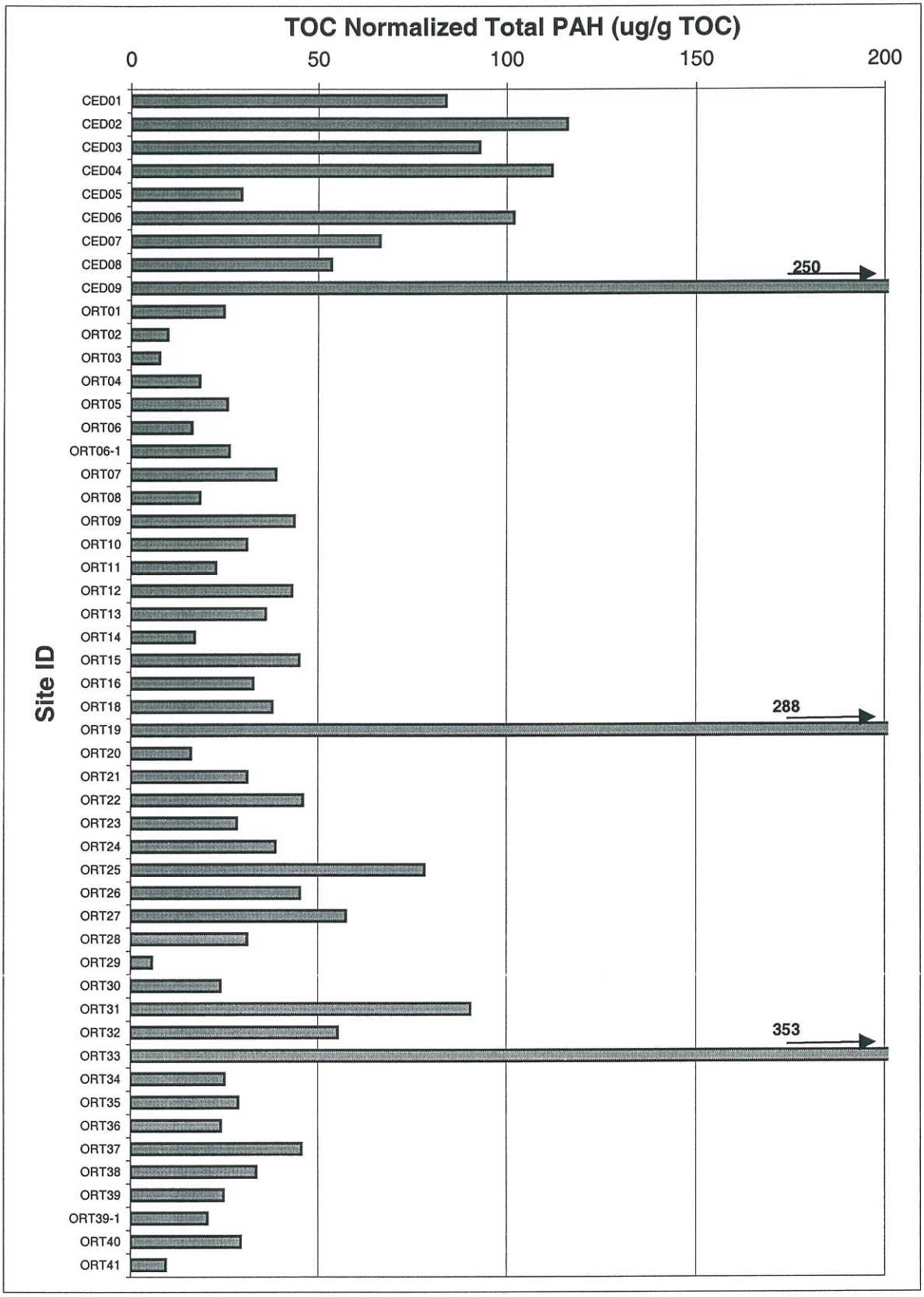
ORT38
ORT39
ORT39-1
ORT40
ORT41
16,000
29,800


TOC Normalized Total PAH (ug/g TOC)
0
50
100
150
200
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
ORT21
ORT22
ORT23
ORT24
ORT25
ORT26
ORT27
ORT28
ORT29
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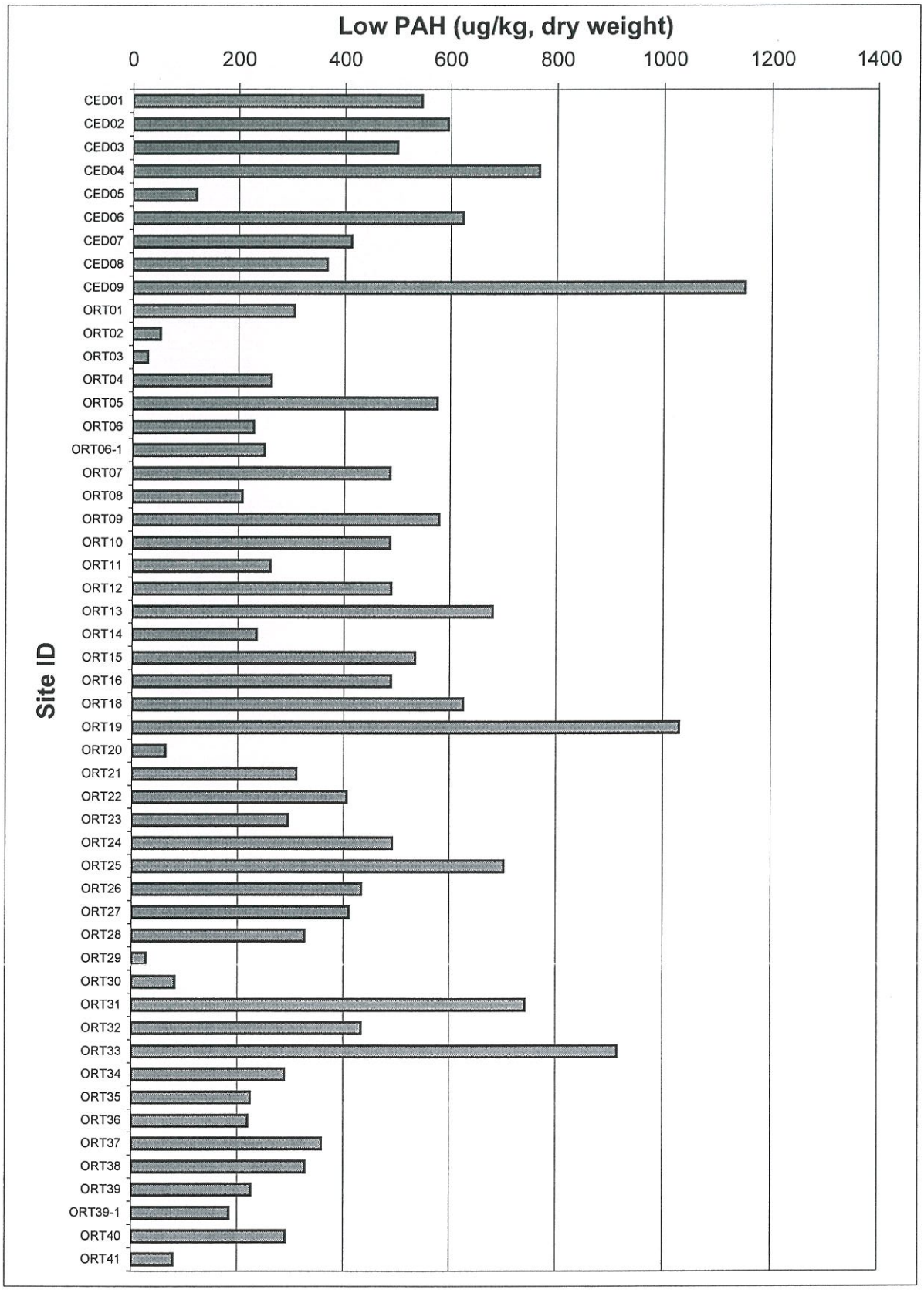
ORT39
ORT39-1
ORT40
ORT41
250
288
353


Low PAH (ug/kg, dry weight)
0
200
400
600
800
1000
1200
1400
Site ID
CED01
CED02
CED03
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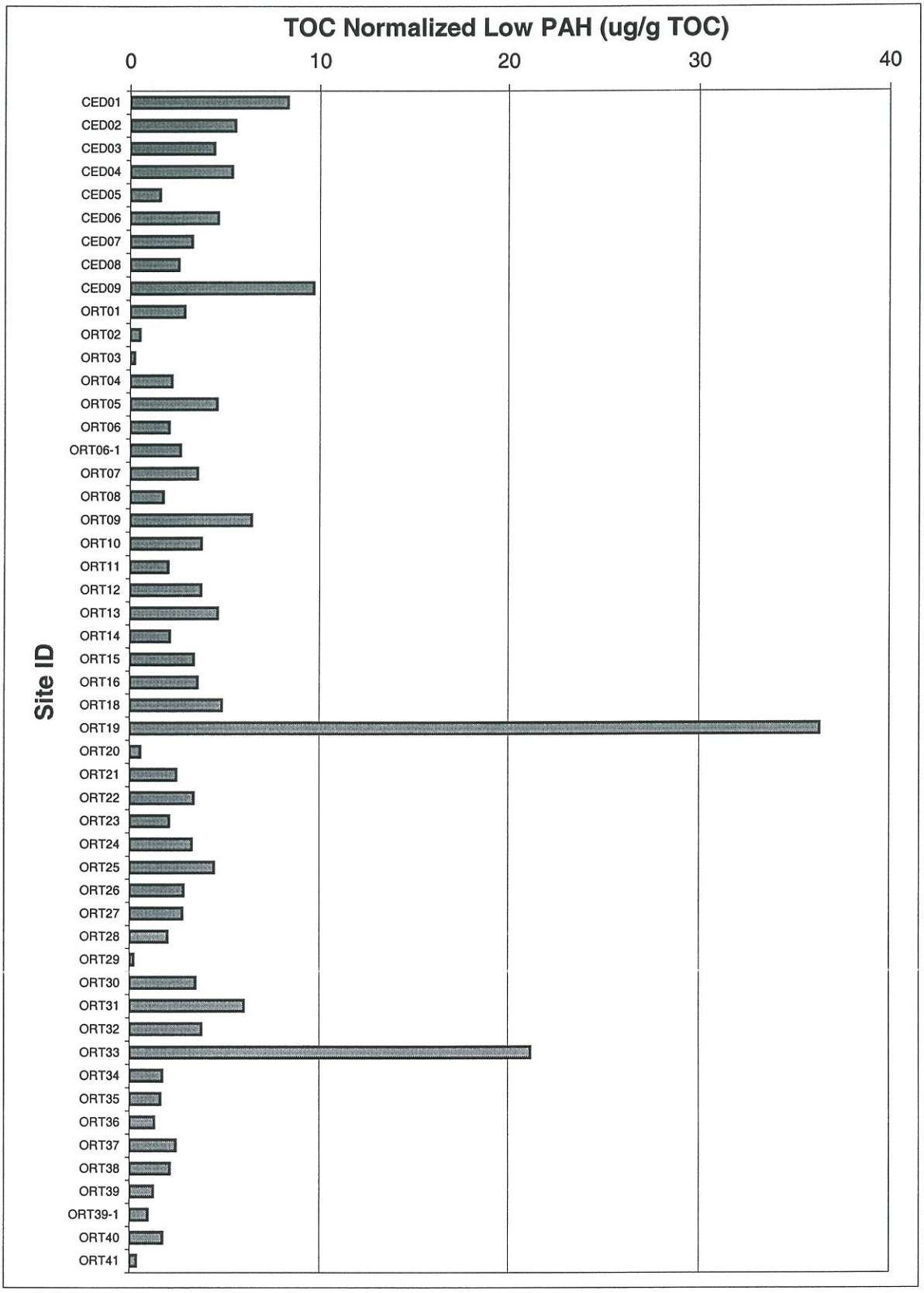
TOC Normalized Low PAH (ug/g TOC)
0
10
20
30
40
Site ID
CED01
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ORT01
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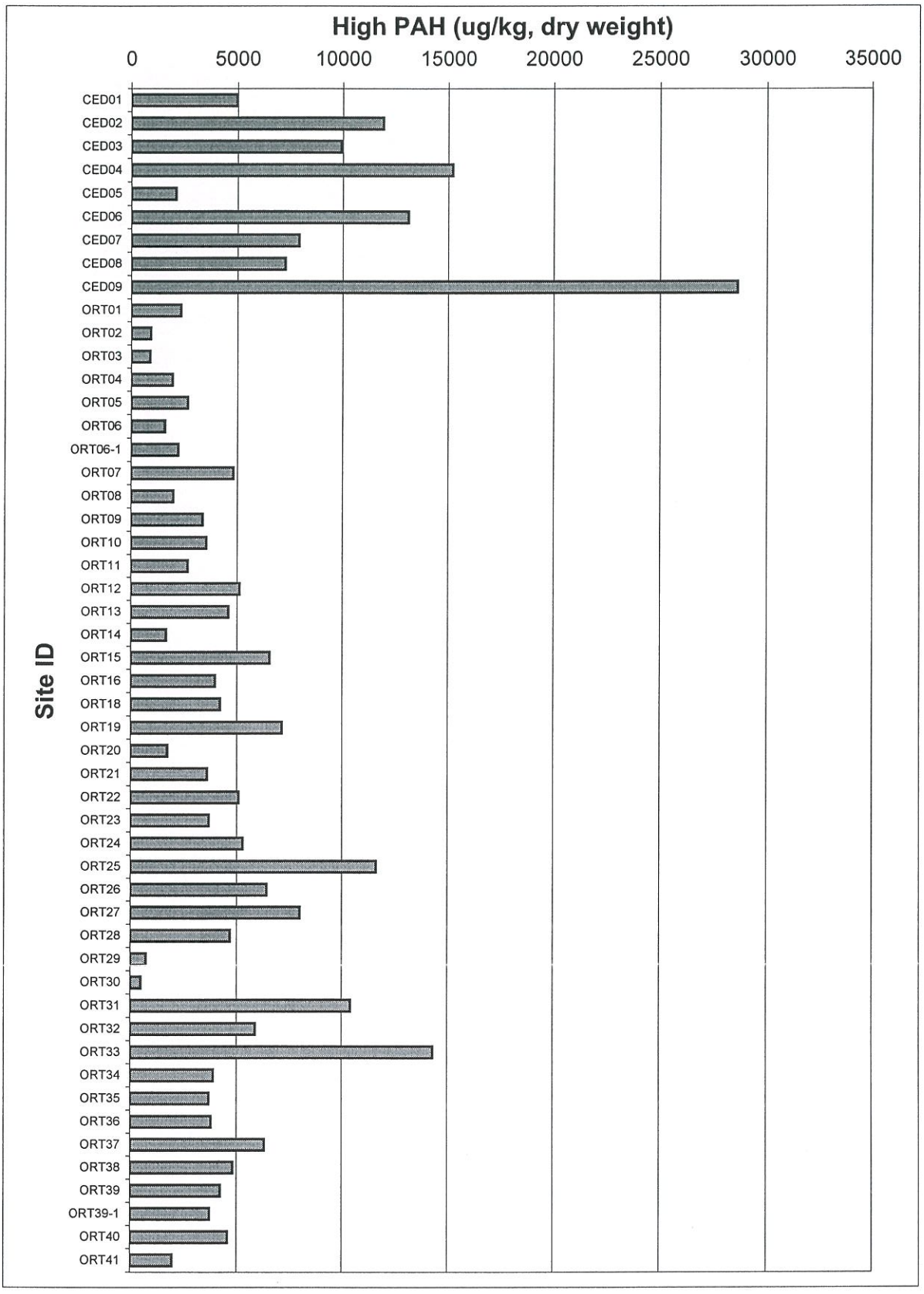
High PAH (ug/kg, dry weight)
0
5000
10000
15000
20000
25000
30000
35000
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
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CED09
ORT01
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ORT39-1
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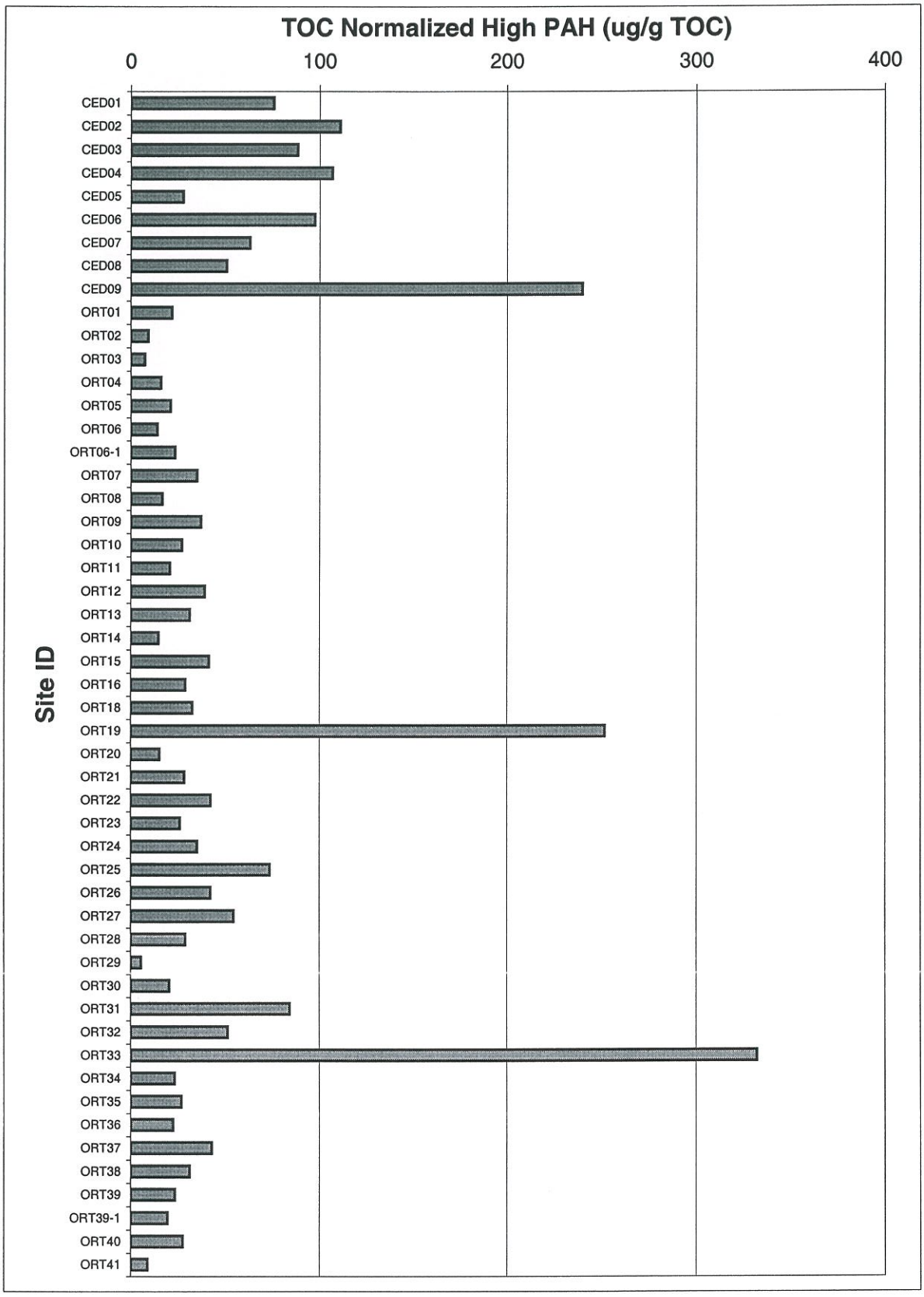
TOC Normalized High PAH (ug/g TOC)
0
100
200
300
400
Site ID
CED01
CED02
CED03
CED04
CED05
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CED07
CED08
CED09
ORT01
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ORT39-1
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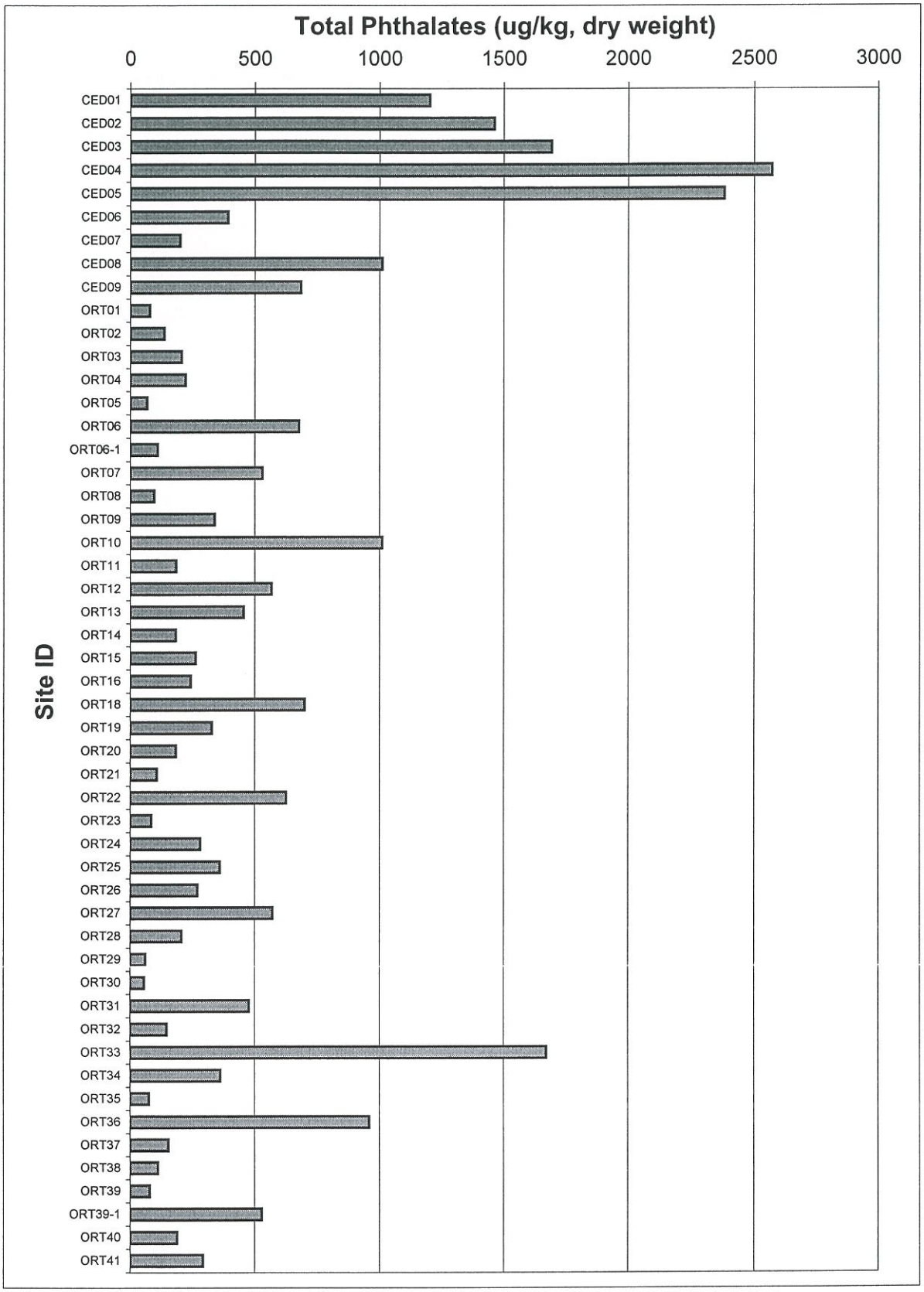
Total Phthalates (ug/kg, dry weight)
0
500
1000
1500
2000
2500
3000
Site ID
CED01
CED02
CED03
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CED05
CED06
CED07
CED08
CED09
ORT01
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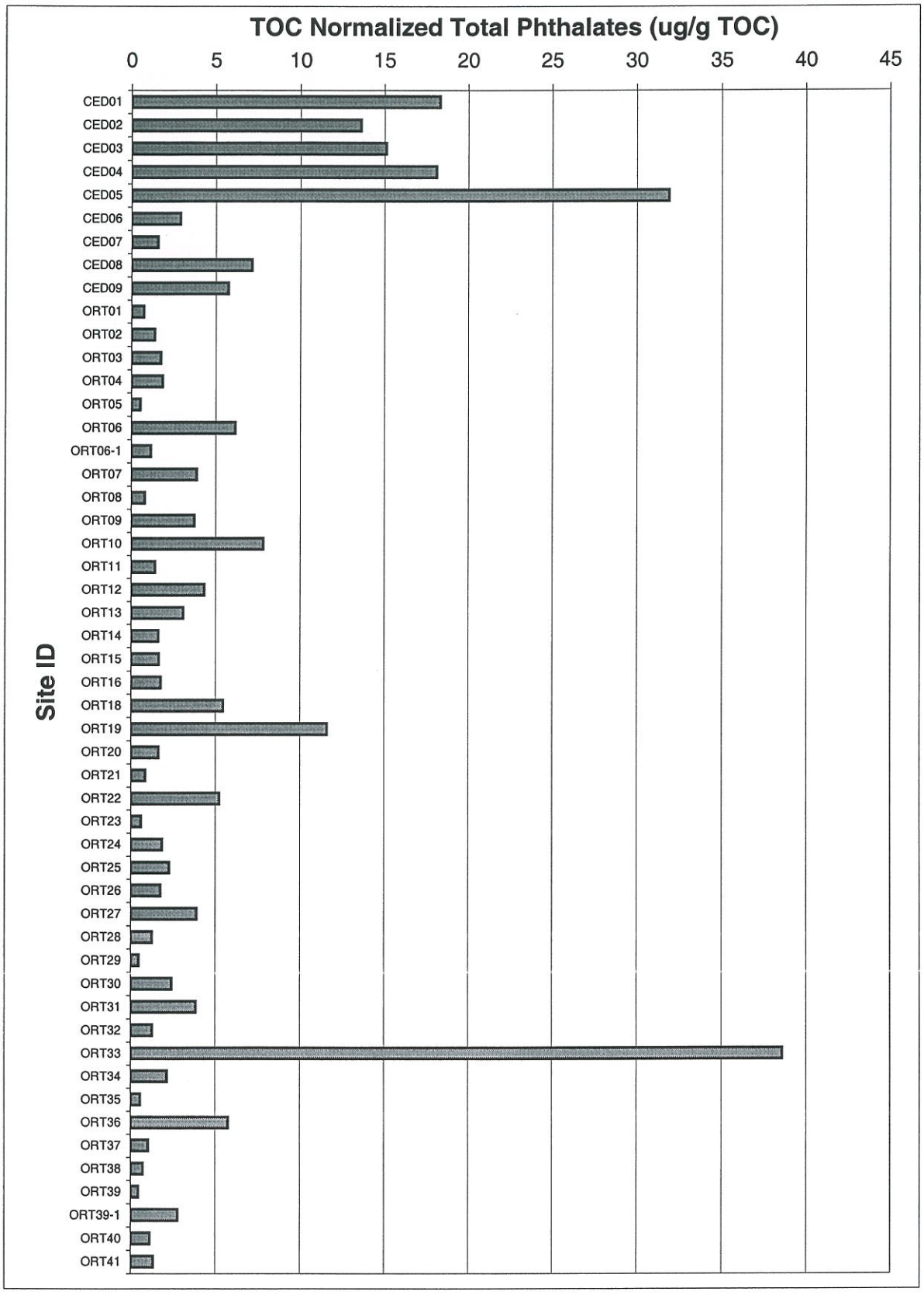
TOC Normalized Total Phthalates (ug/g TOC)
0
5
10
15
20
25
30
35
40
45
Site ID
CED01
CED02
CED03
CED04
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CED06
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CED09
ORT01
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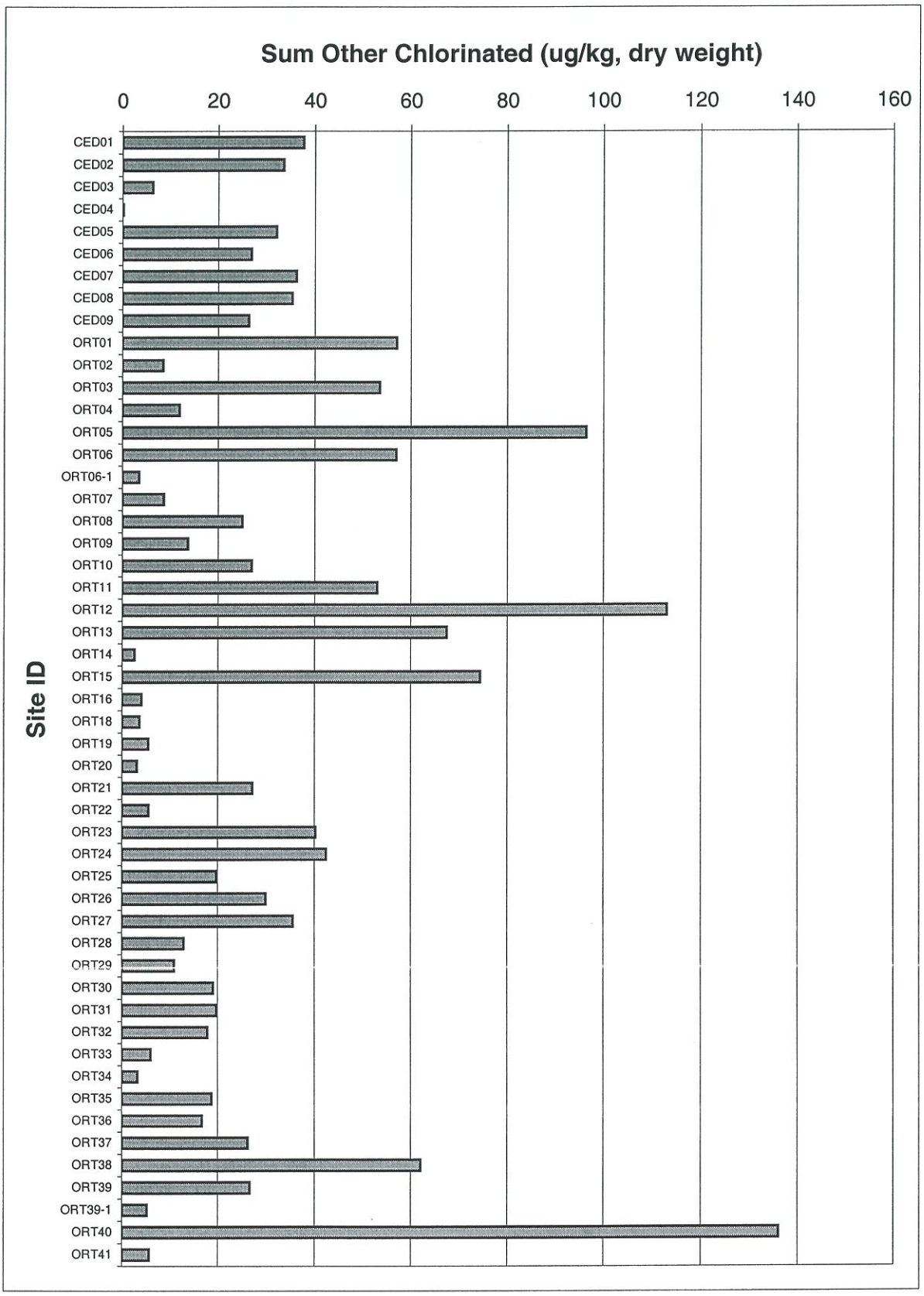
Sum Other Chlorinated (ug/kg, dry weight)
0
20
40
60
80
100
120
140
160
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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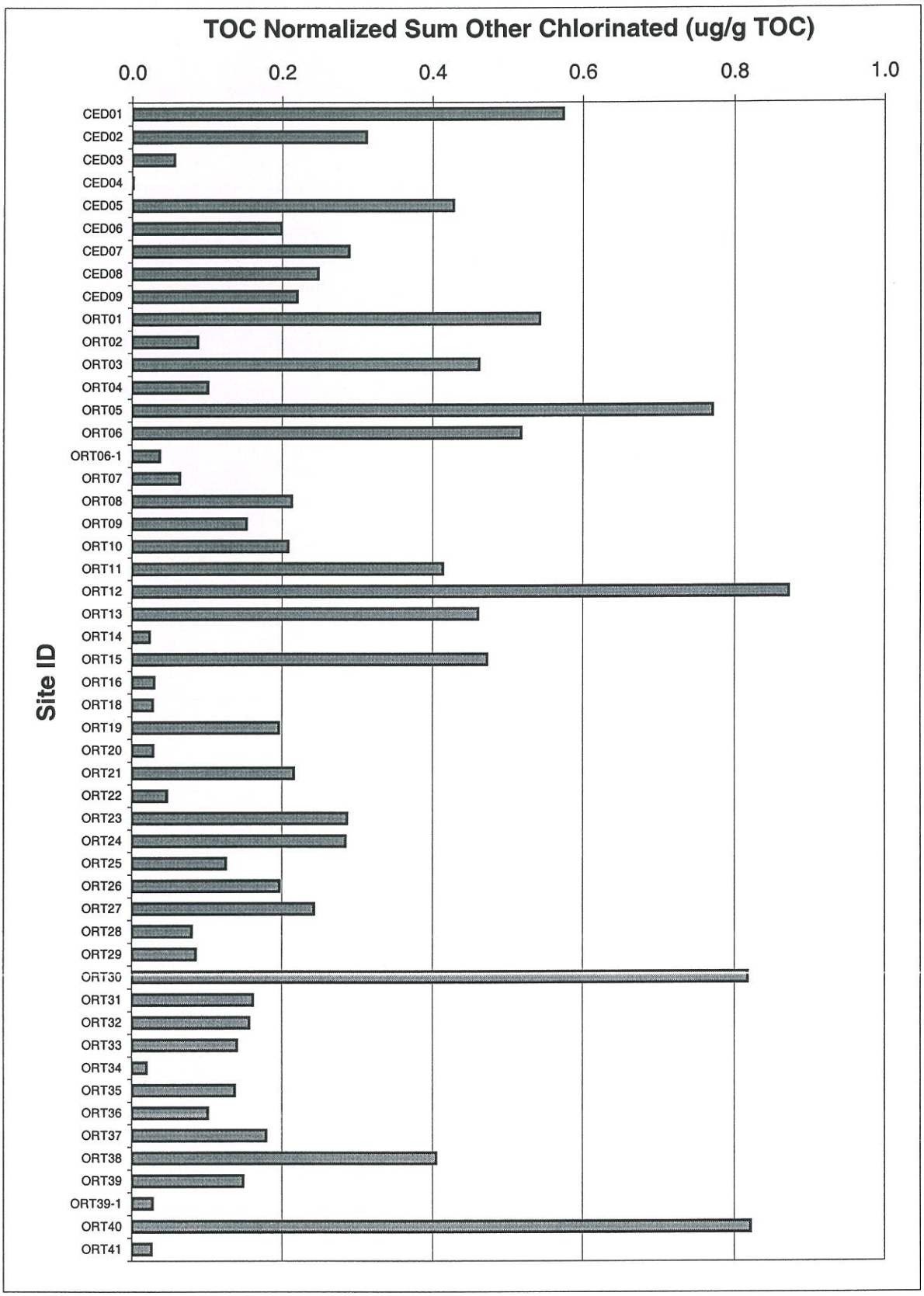
TOC Normalized Sum Other Chlorinated (ug/g TOC)
0.0
0.2
0.4
0.6
0.8
1.0
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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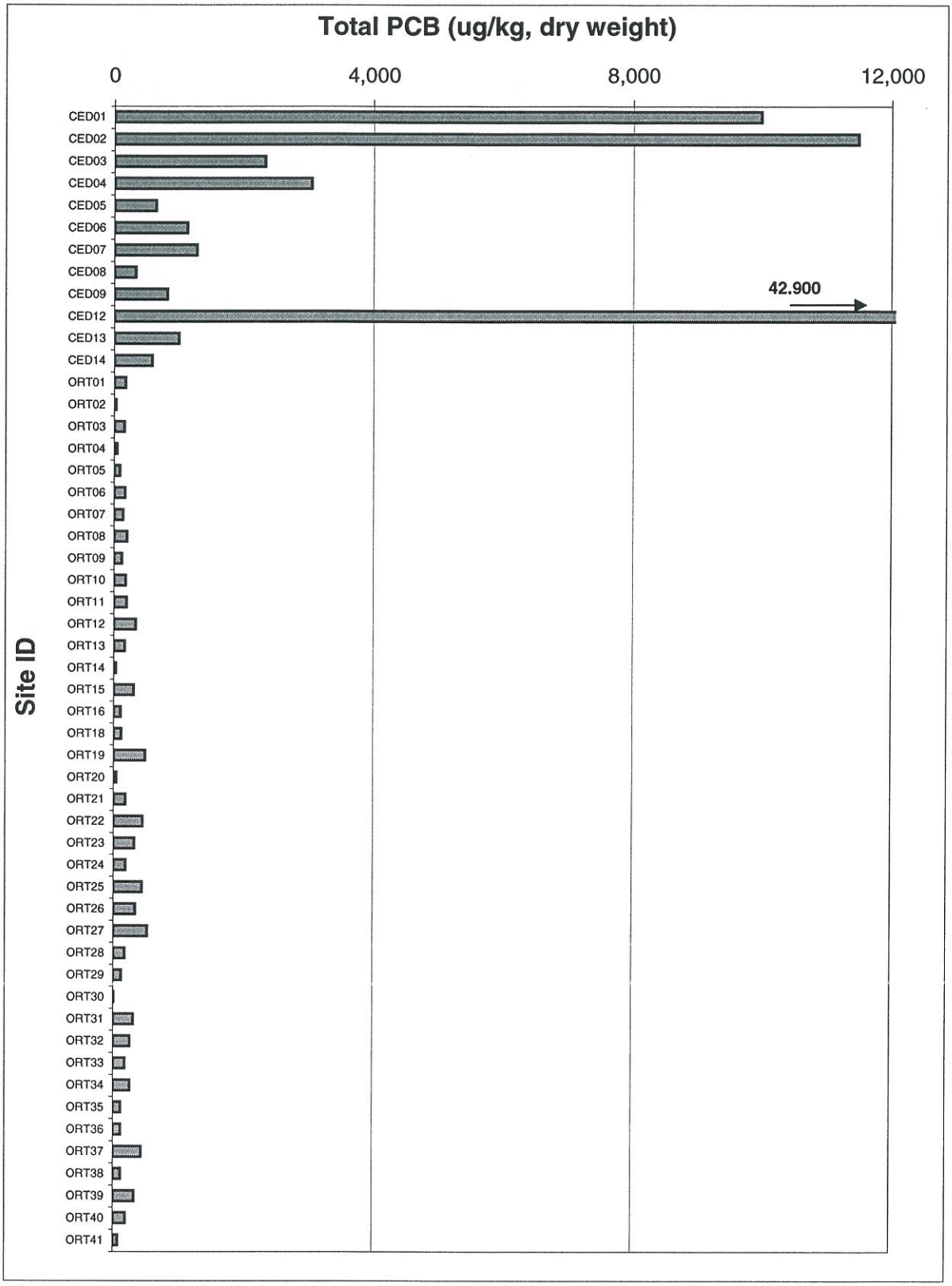
Total PCB (ug/kg, dry weight)
0
4,000
8,000
12,000
Site ID
CED01
CED02
CED03
CED04
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CED07
CED08
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CED12
CED13
CED14
ORT01
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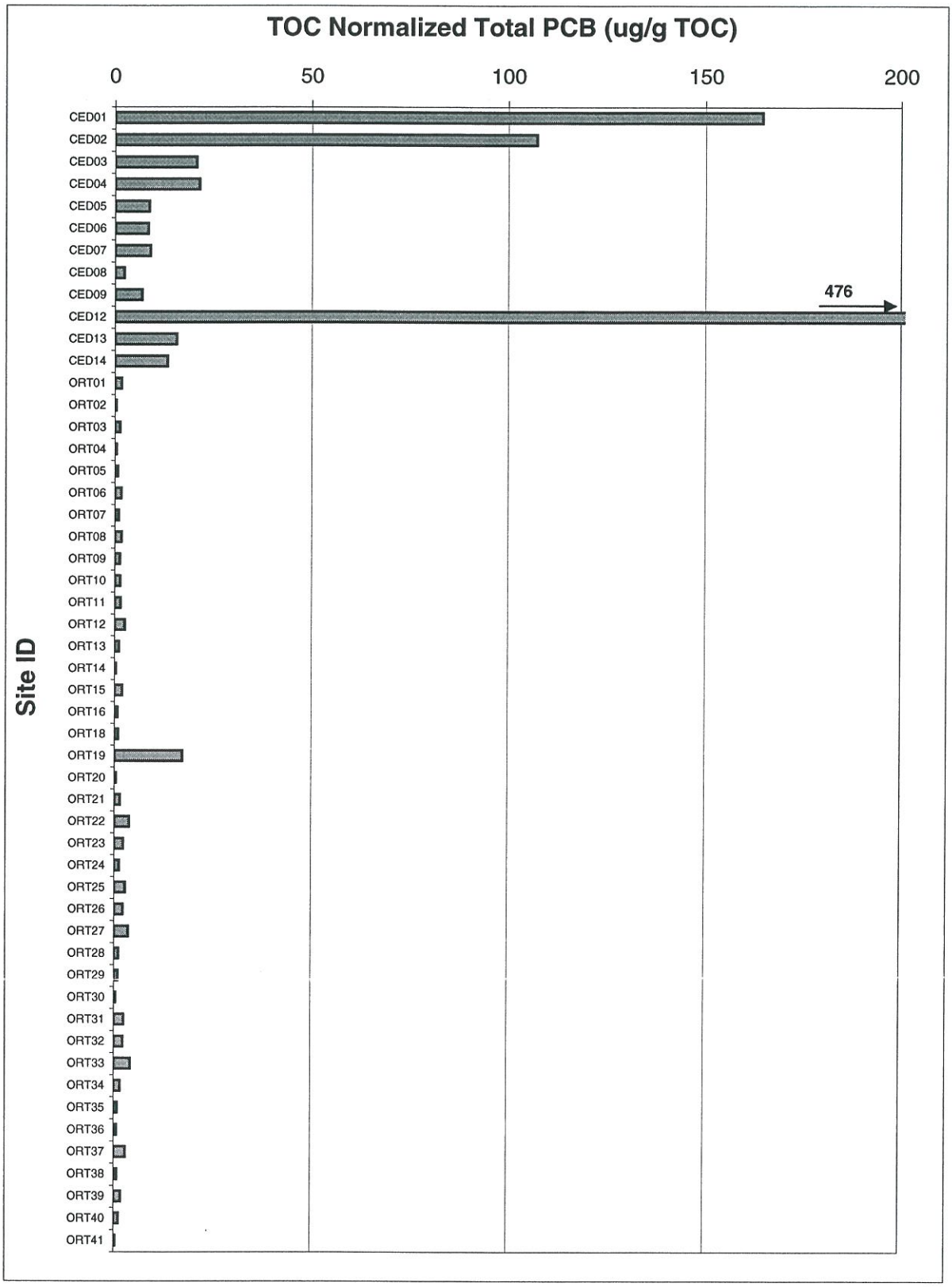
ORT40
ORT41
42.900


TOC Normalized Total PCB (ug/g TOC)
0
50
100
150
200
Site ID
CED01
CED02
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CED09
CED12
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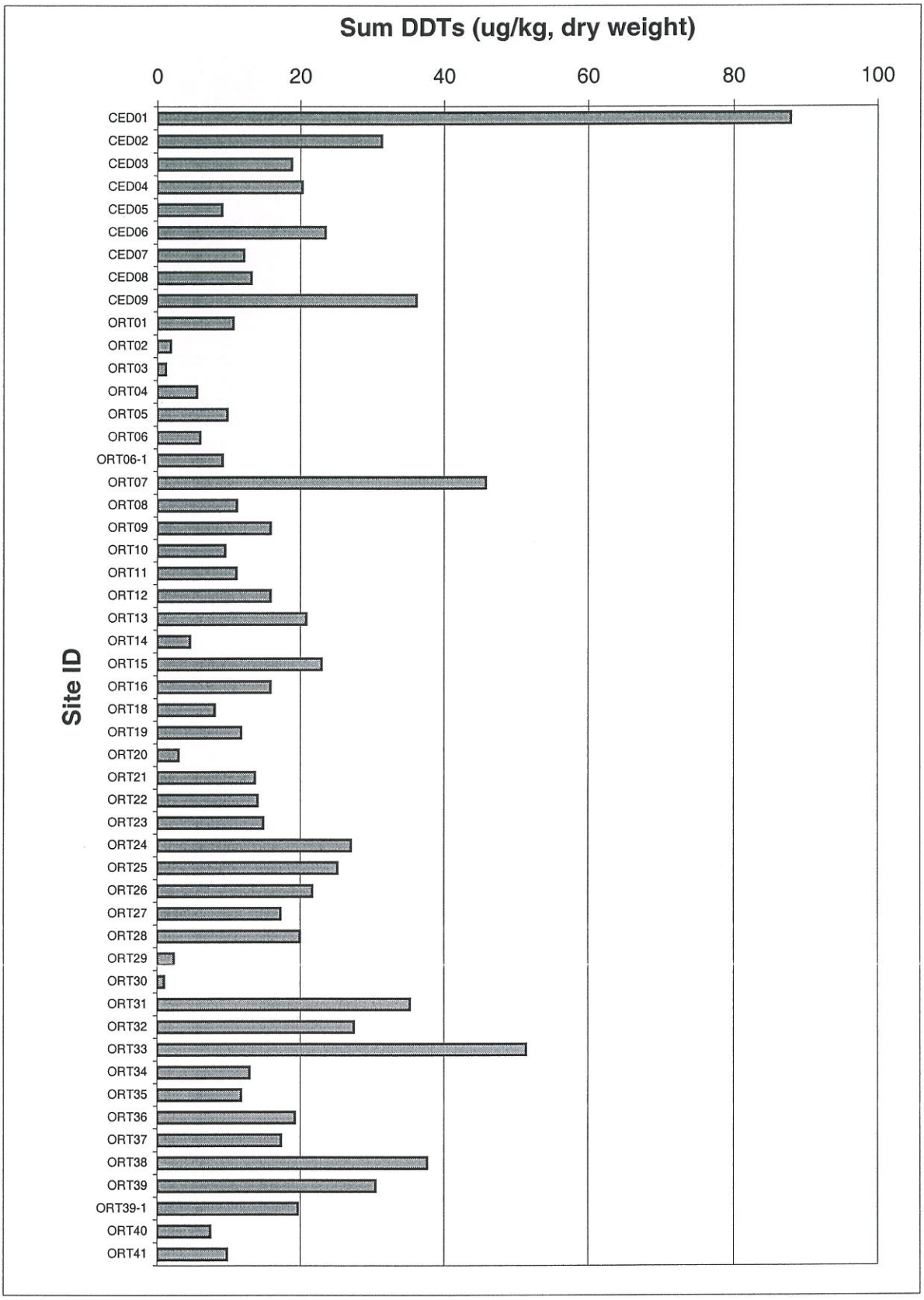
ORT40
ORT41
476


Sum DDTs (ug/kg, dry weight)
0
20
40
60
80
100
Site ID
CED01
CED02
CED03
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CED06
CED07
CED08
CED09
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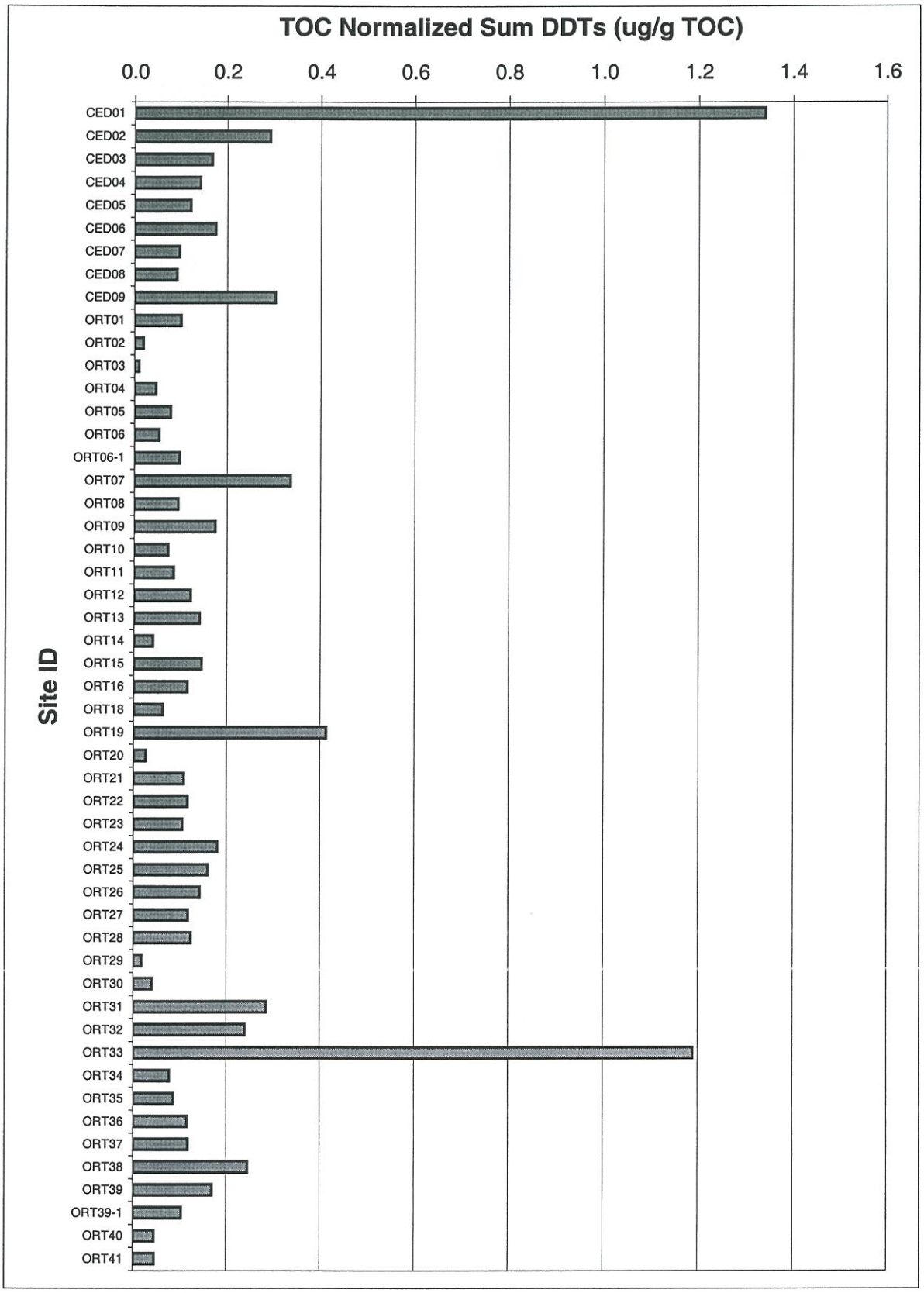
TOC Normalized Sum DDTs (ug/g TOC)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Site ID
CED01
CED02
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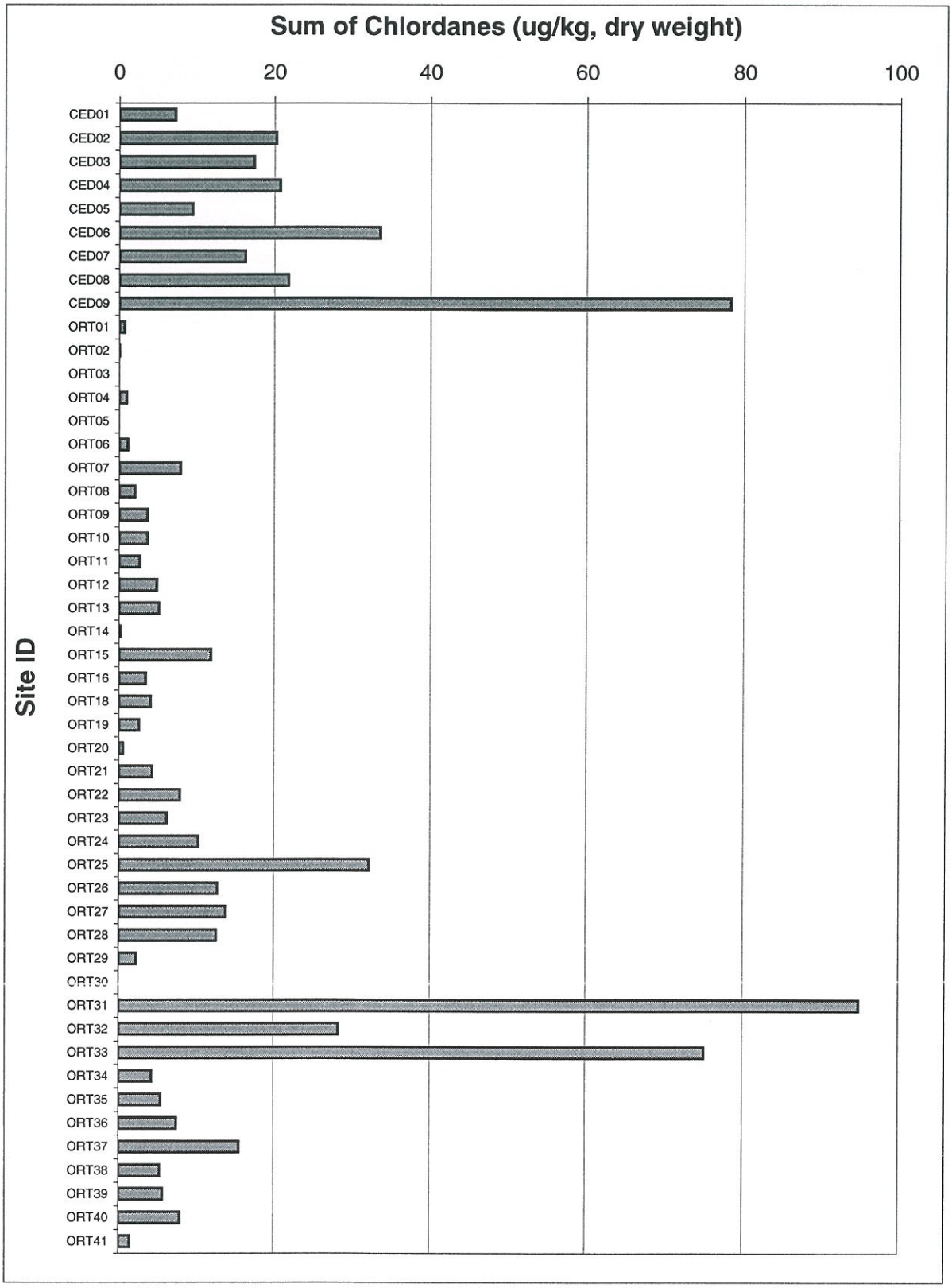
Sum of Chlordanes (ug/kg, dry weight)
0
20
40
60
80
100
Site ID
CED01
CED02
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CED08
CED09
ORT01
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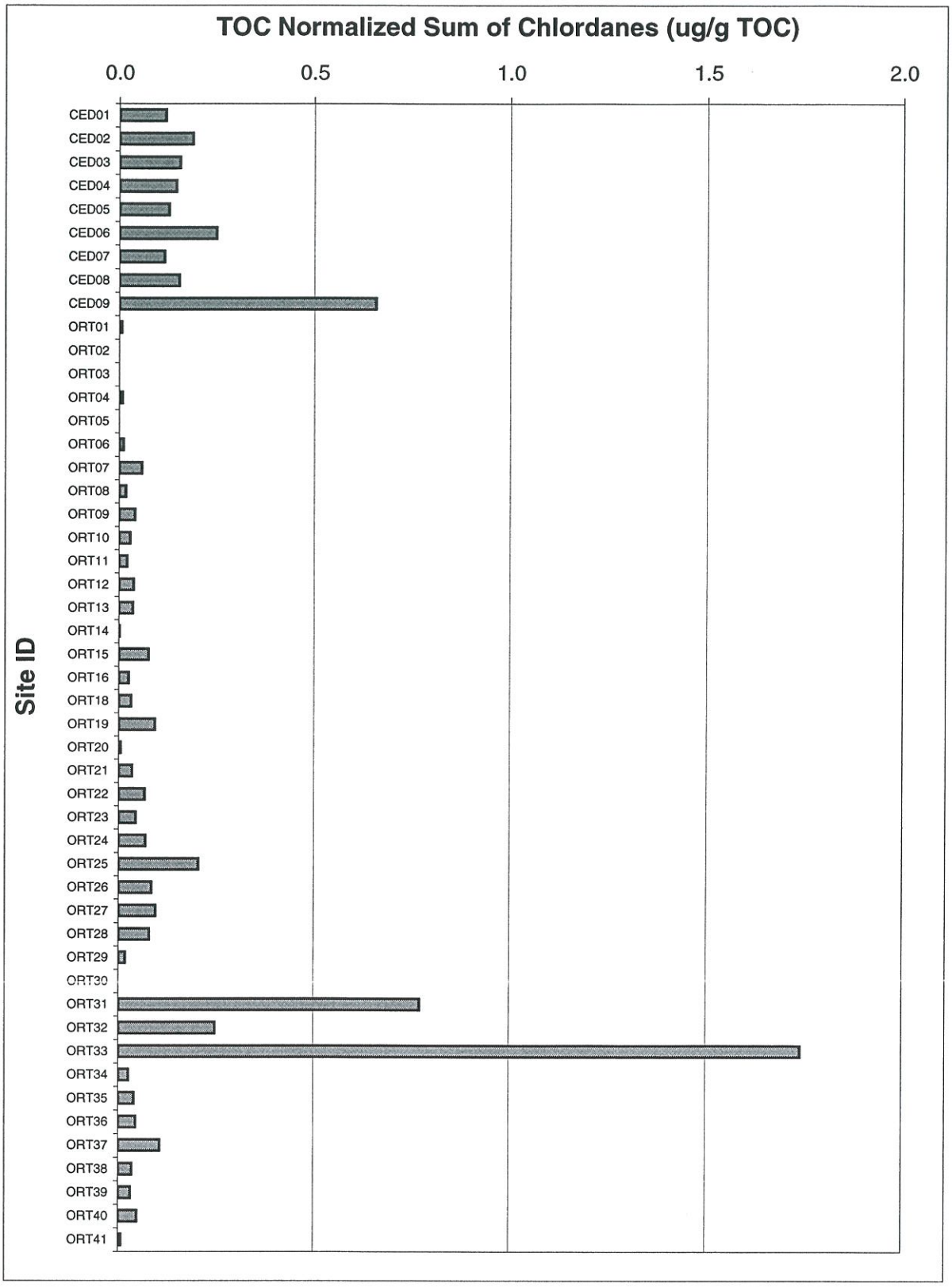
TOC Normalized Sum of Chlordanes (ug/g TOC)
0.0
0.5
1.0
1.5
2.0
Site ID
CED01
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ORT01
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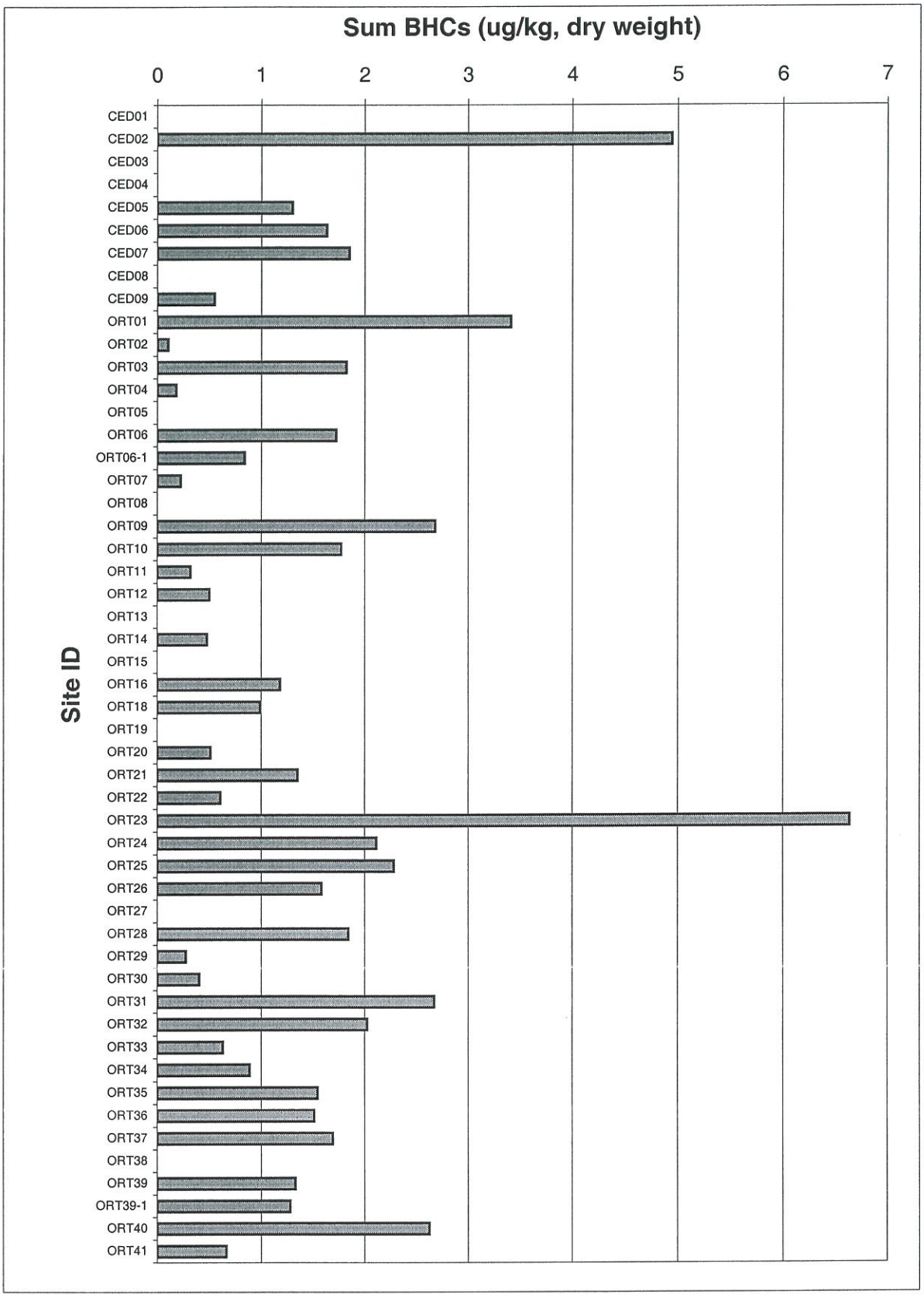
Sum BHCs (ug/kg, dry weight)
0
1
2
3
4
5
6
7
Site ID
CED01
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ORT39-1
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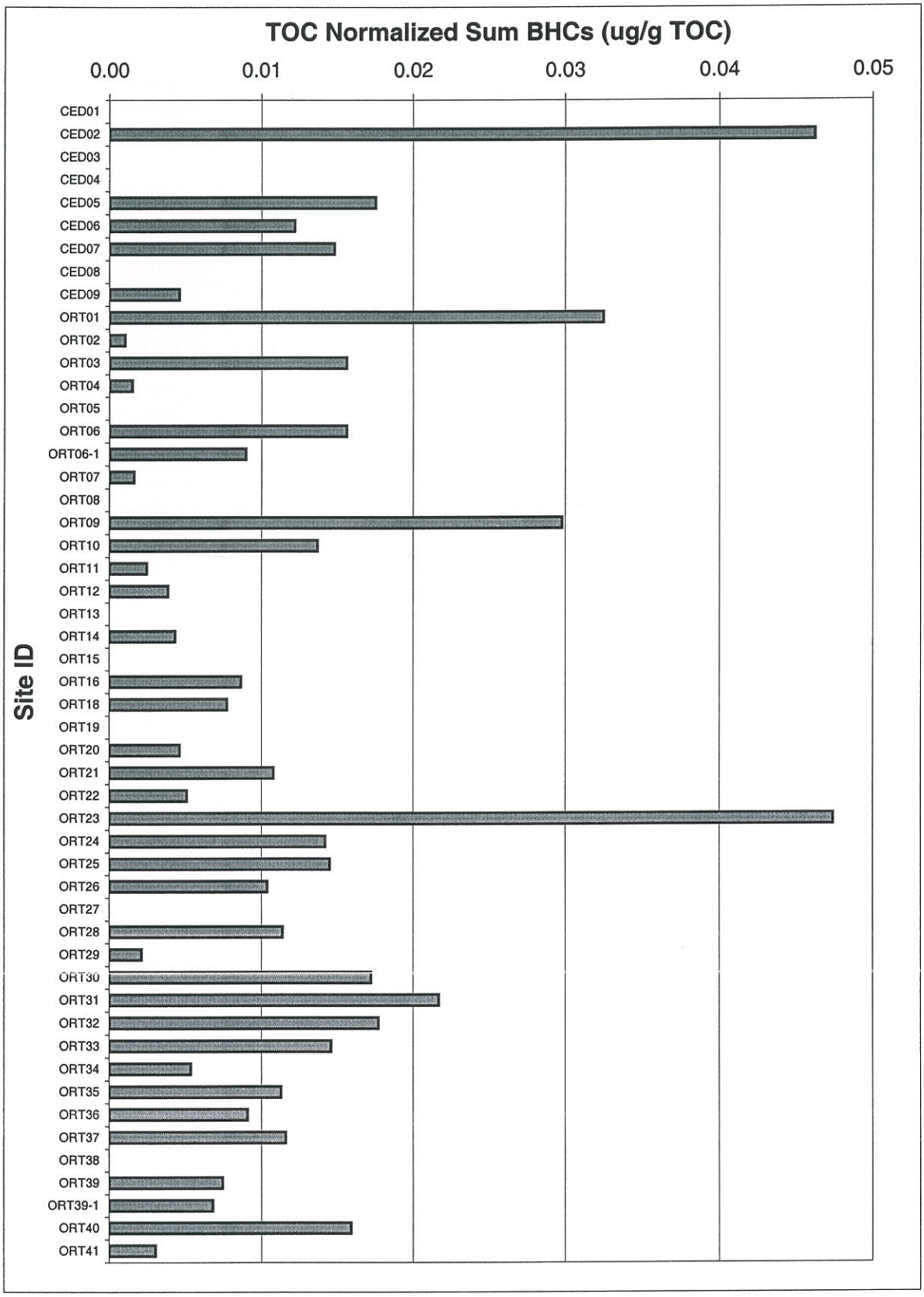
ORT41


TOC Normalized Sum BHCs (ug/g TOC)
0.00
0.01
0.02
0.03
0.04
0.05
Site ID
CED01
CED02
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CED04
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CED06
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ORT01
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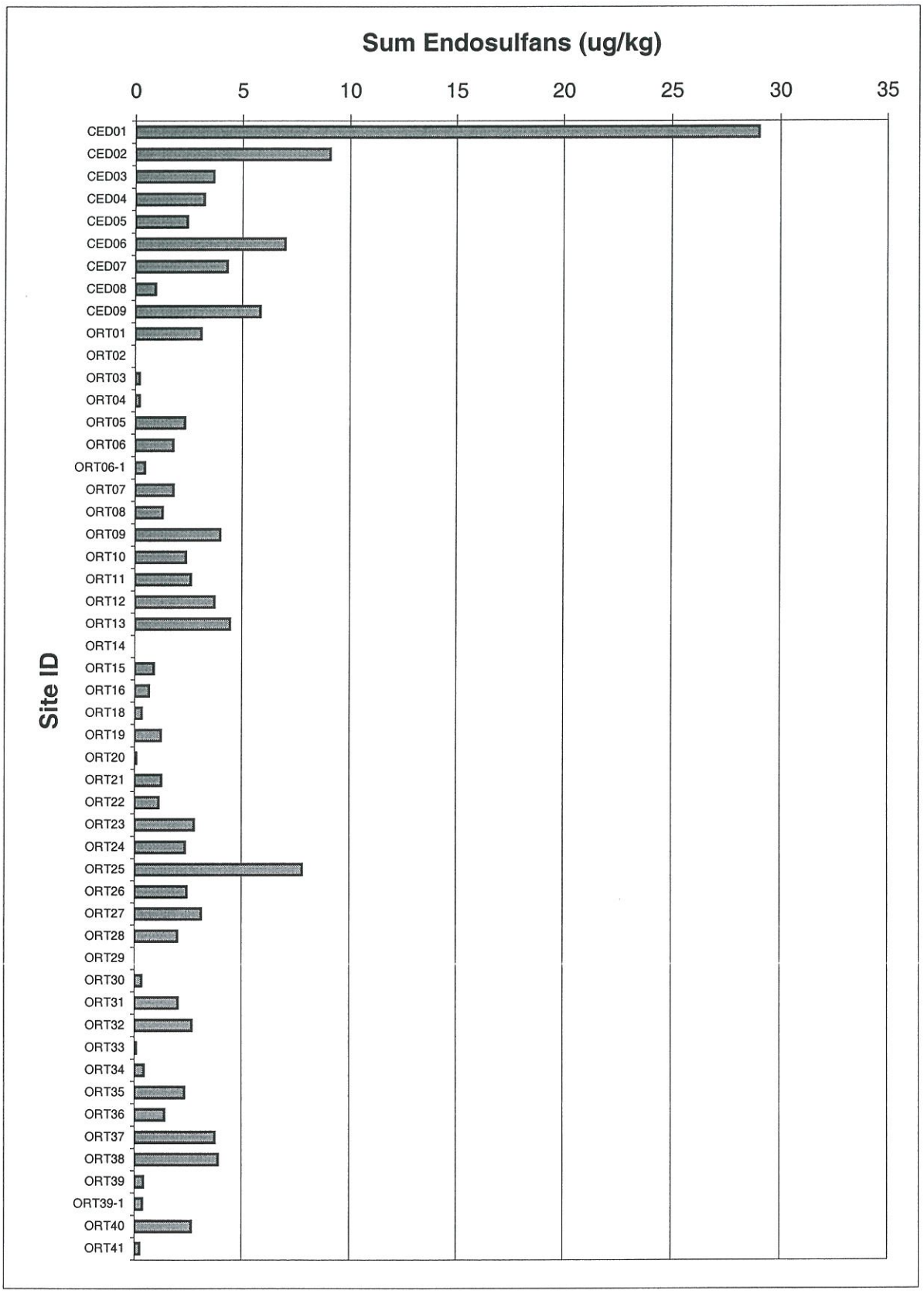
Sum Endosulfans (ug/kg)
0
5
10
15
20
25
30
35
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
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ORT01
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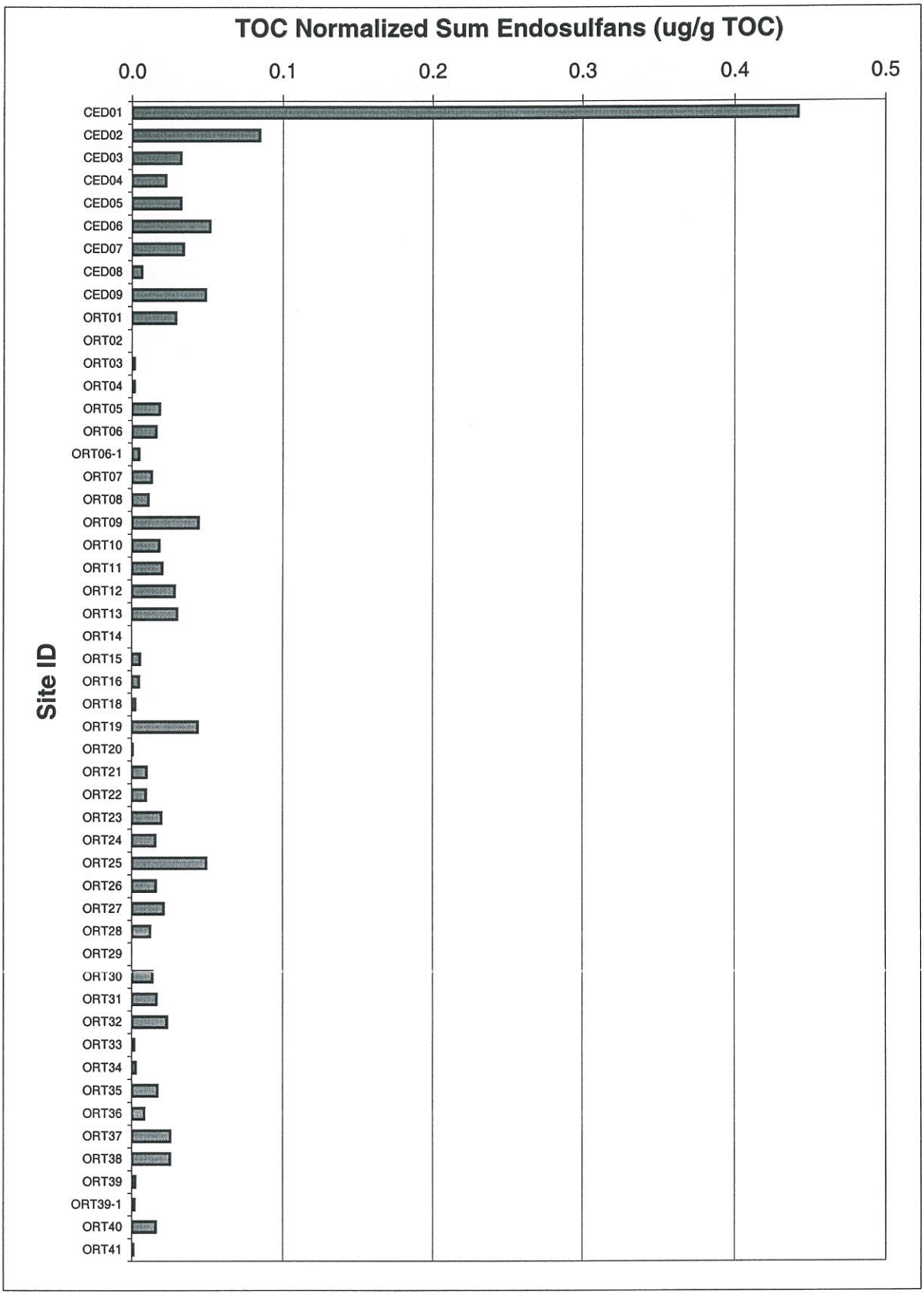
ORT41


TOC Normalized Sum Endosulfans (ug/g TOC)
0.0
0.1
0.2
0.3
0.4
0.5
Site ID
CED01
CED02
CED03
CED04
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CED06
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CED08
CED09
ORT01
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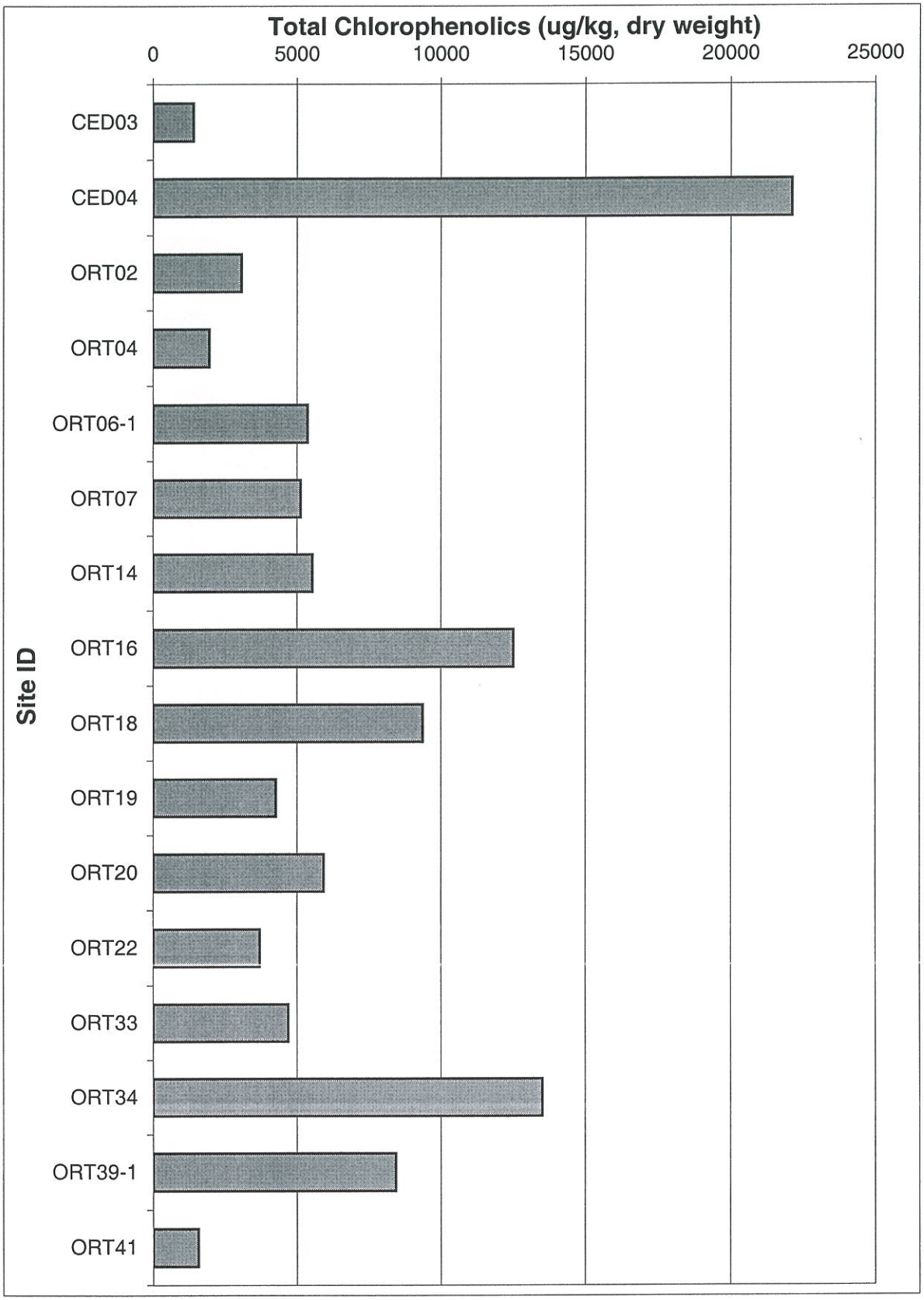
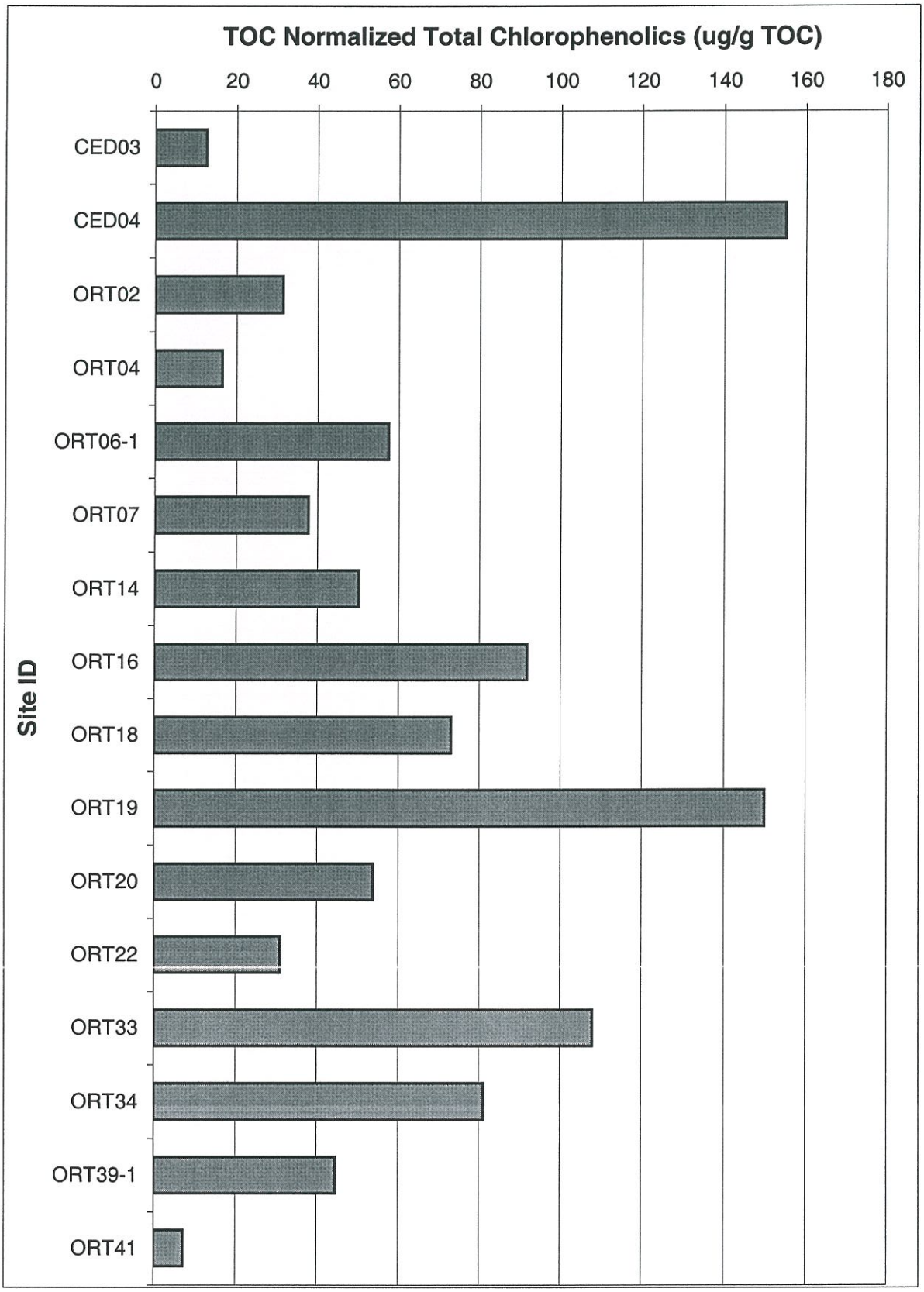
ORT39-1
ORT40
ORT41


Total Chlorophenolics (ug/kg, dry weight)
0
5000
10000
15000
20000
25000
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41


TOC Normalized Total Chlorophenolics (ug/g TOC)
0
20
40
60
80
100
120
140
160
180
Site ID
CED03
CED04
ORT02
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ORT07
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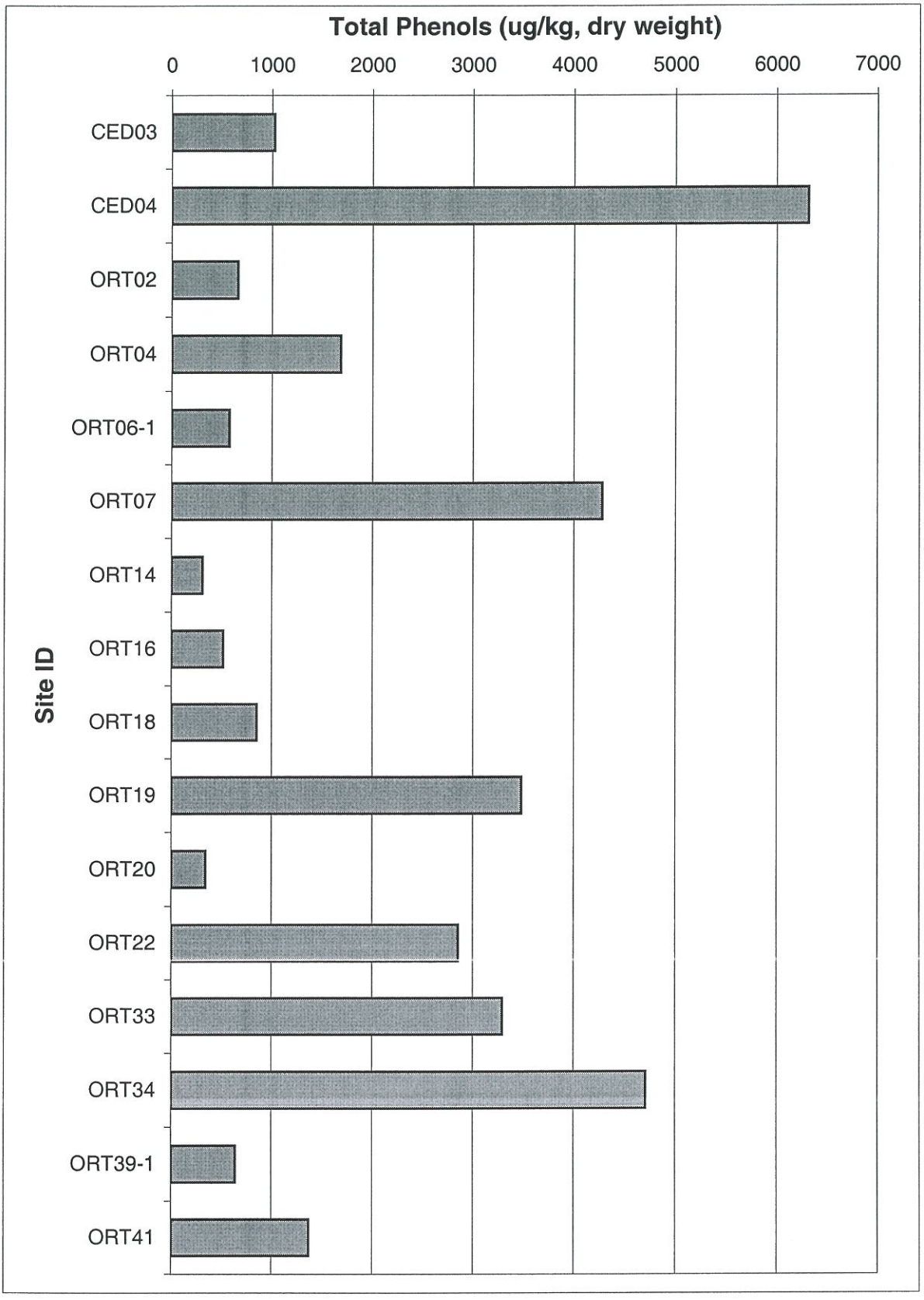
ORT34
ORT39-1
ORT41


Total Phenols (ug/kg, dry weight)
0
1000
2000
3000
4000
5000
6000
7000
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
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ORT22
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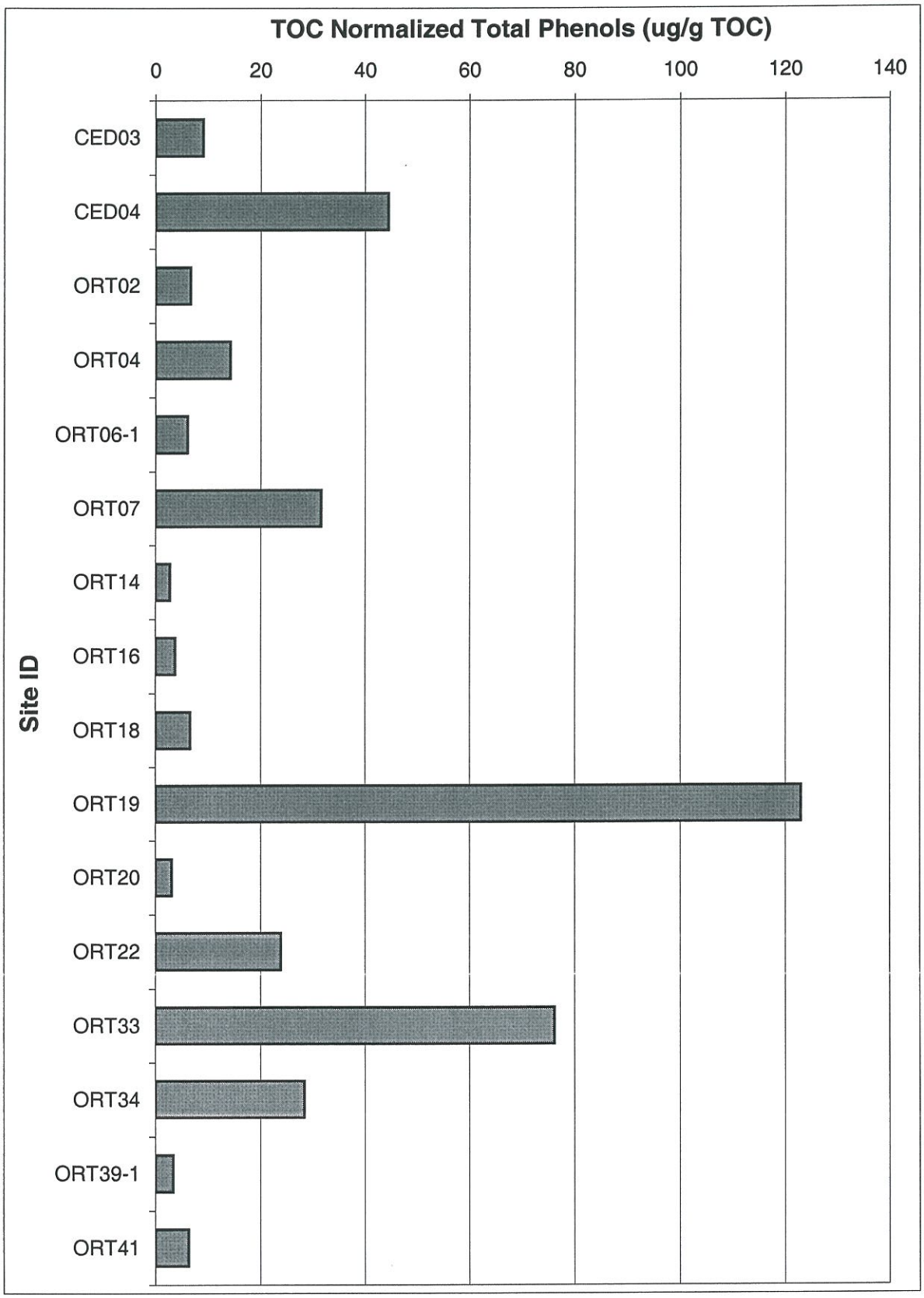
ORT39-1
ORT41


TOC Normalized Total Phenols (ug/g TOC)
0
20
40
60
80
100
120
140
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
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ORT22
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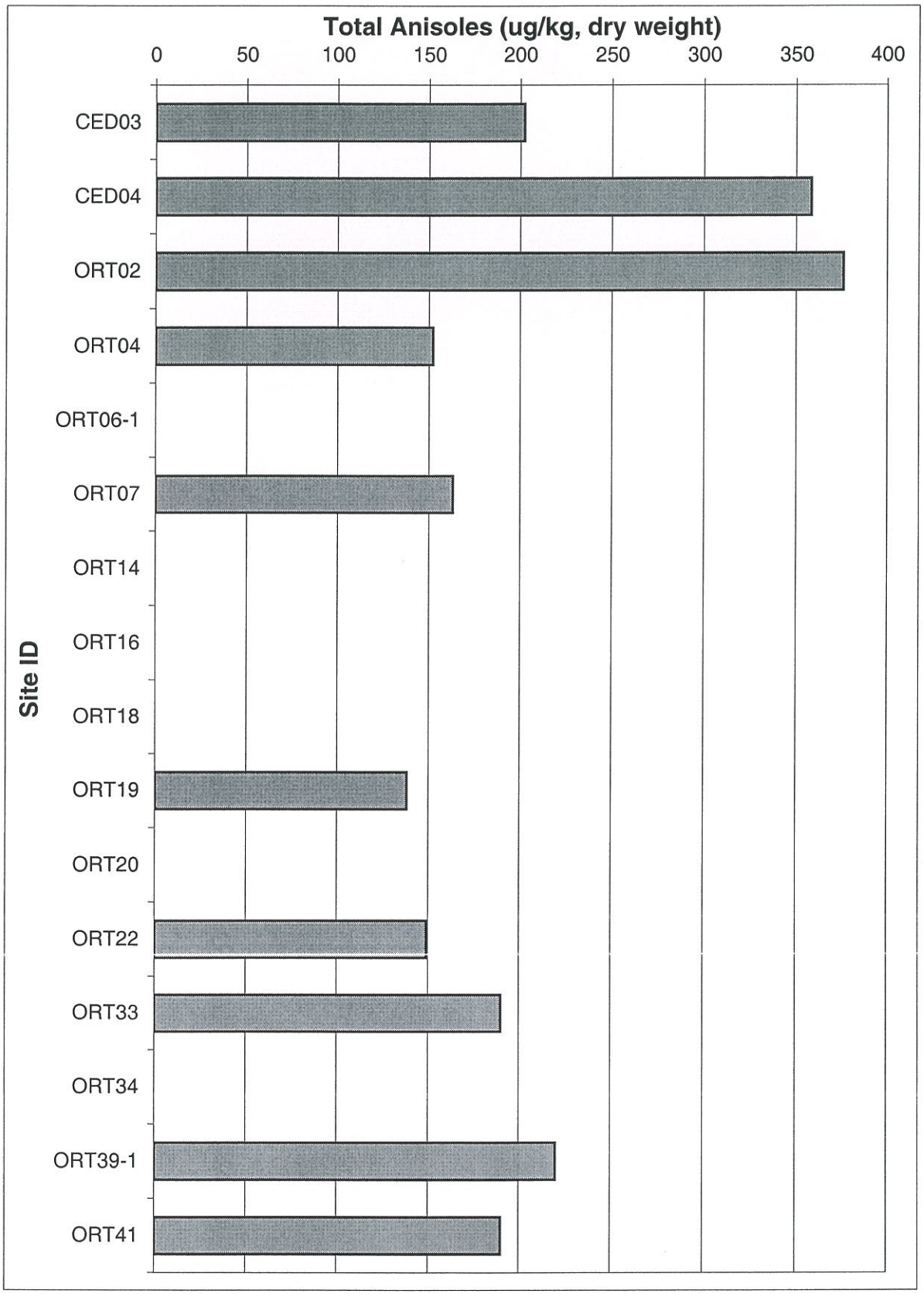
ORT39-1
ORT41


Total Anisoles (ug/kg, dry weight)
0
50
100
150
200
250
300
350
400
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
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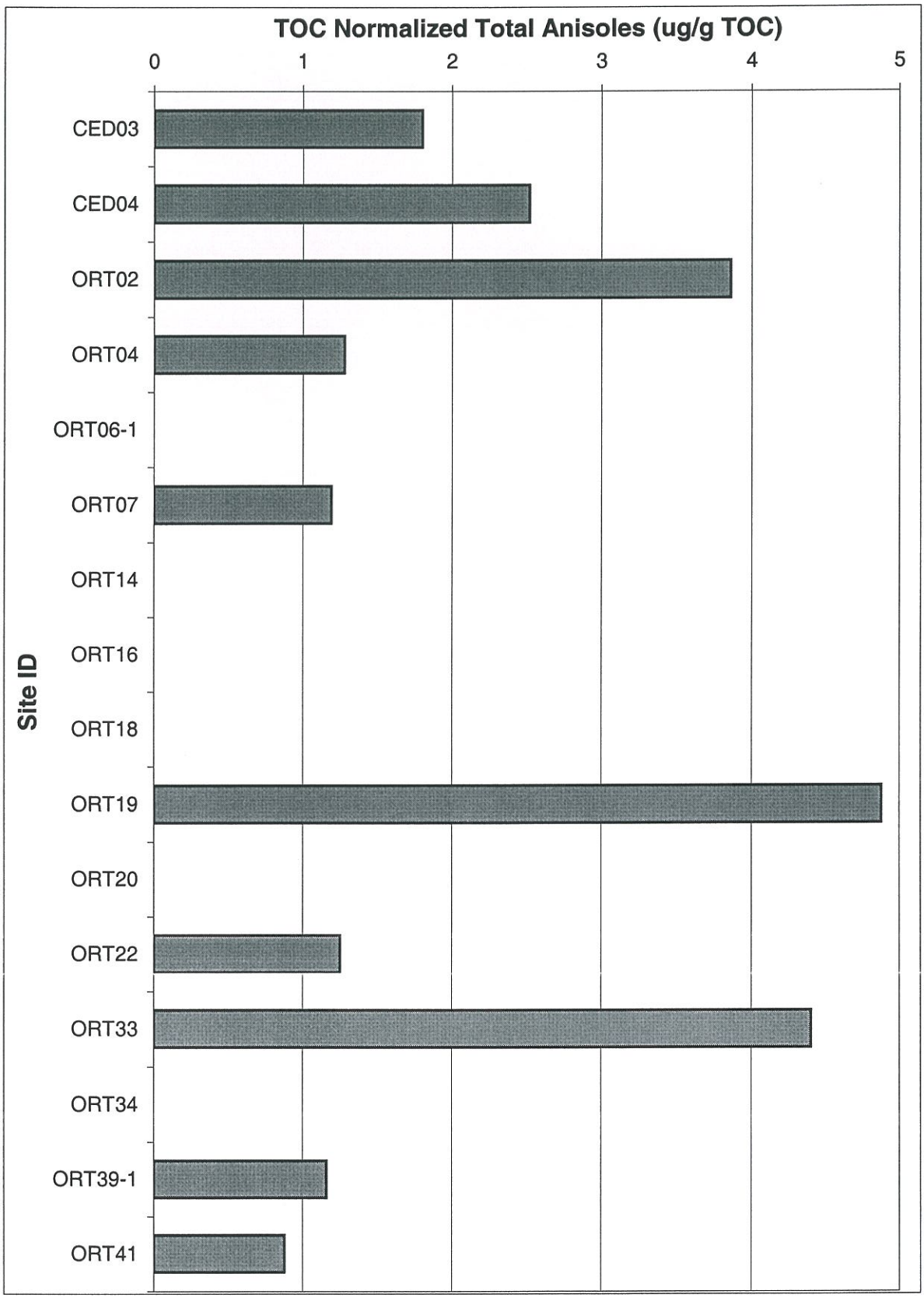
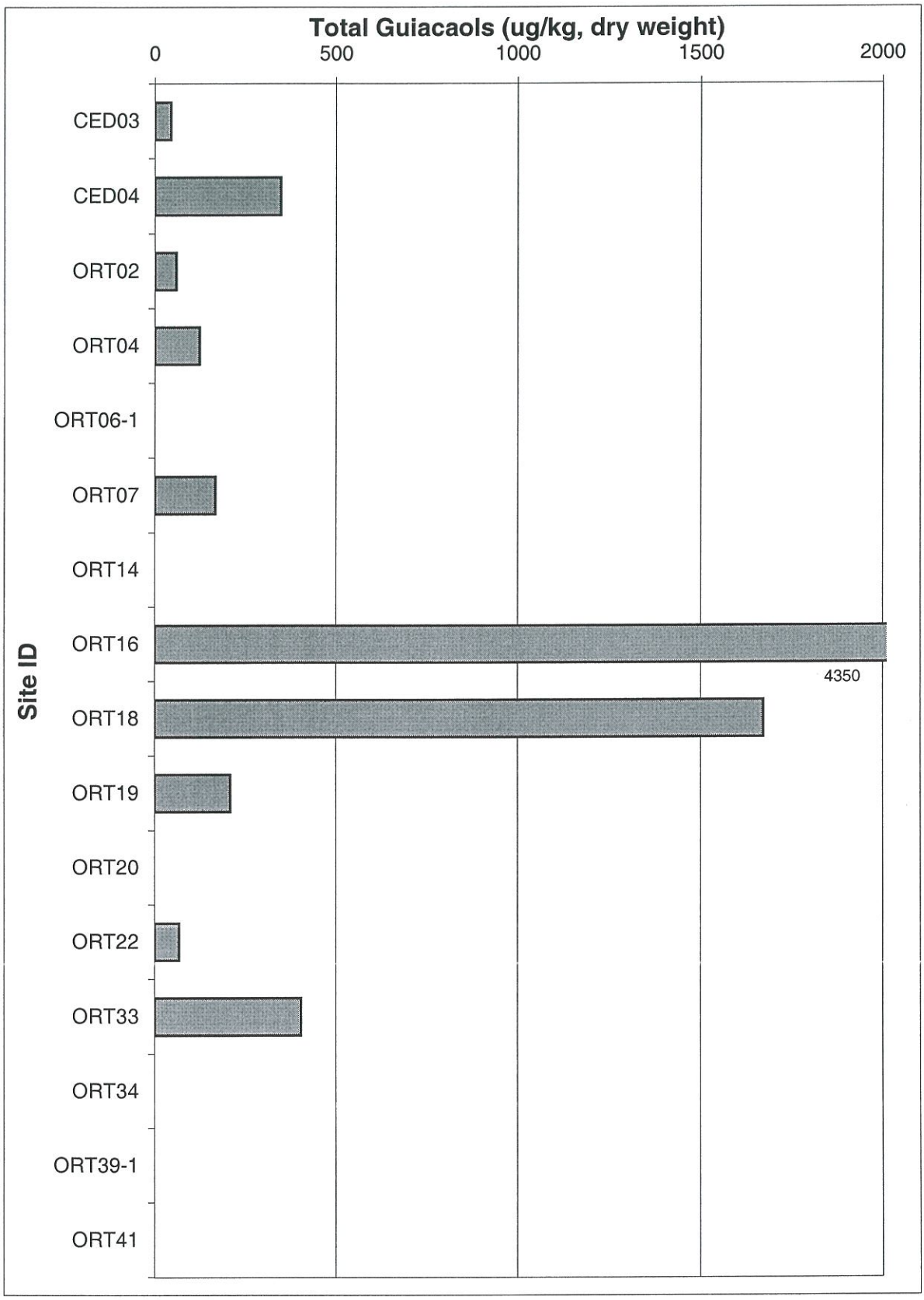
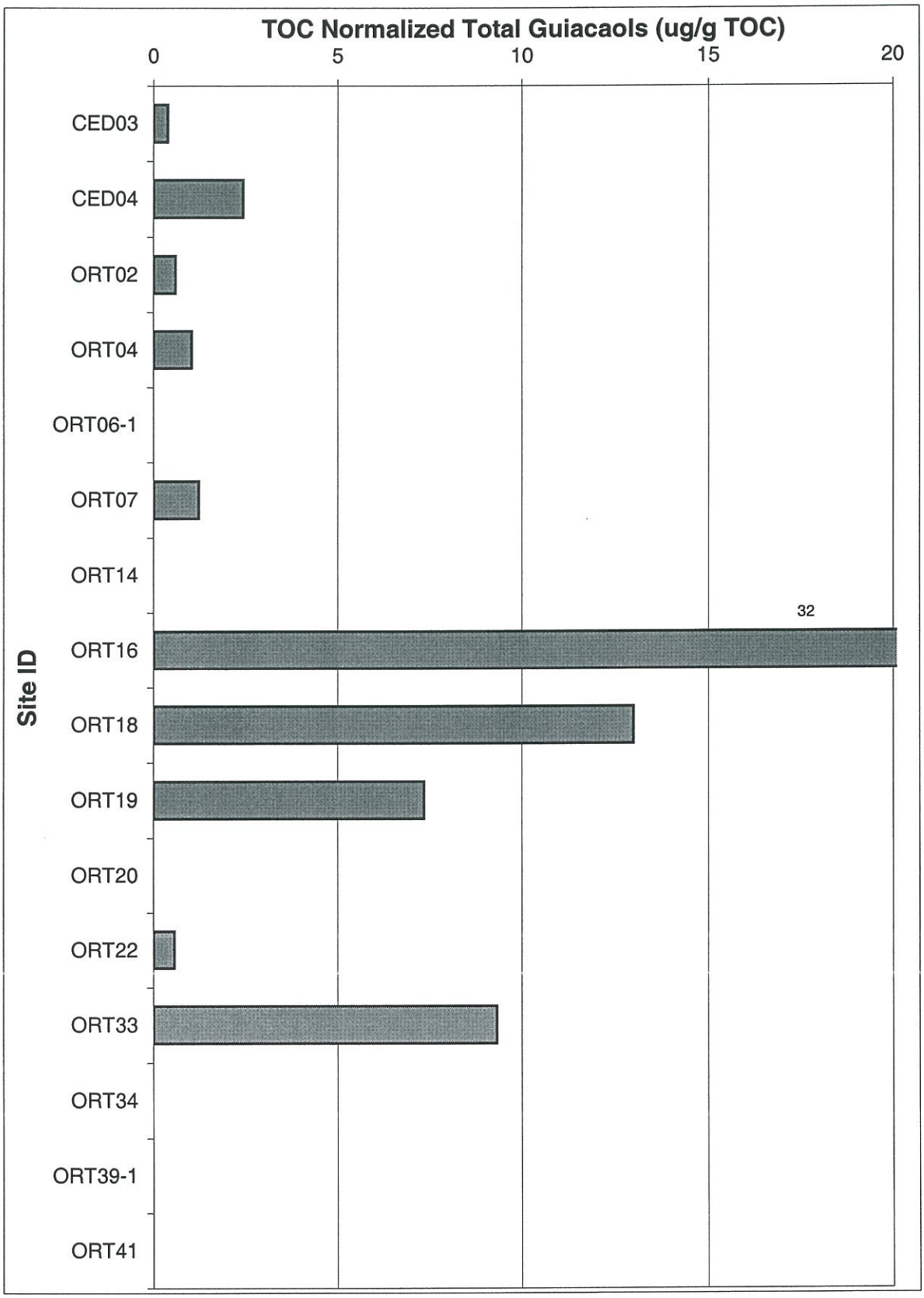
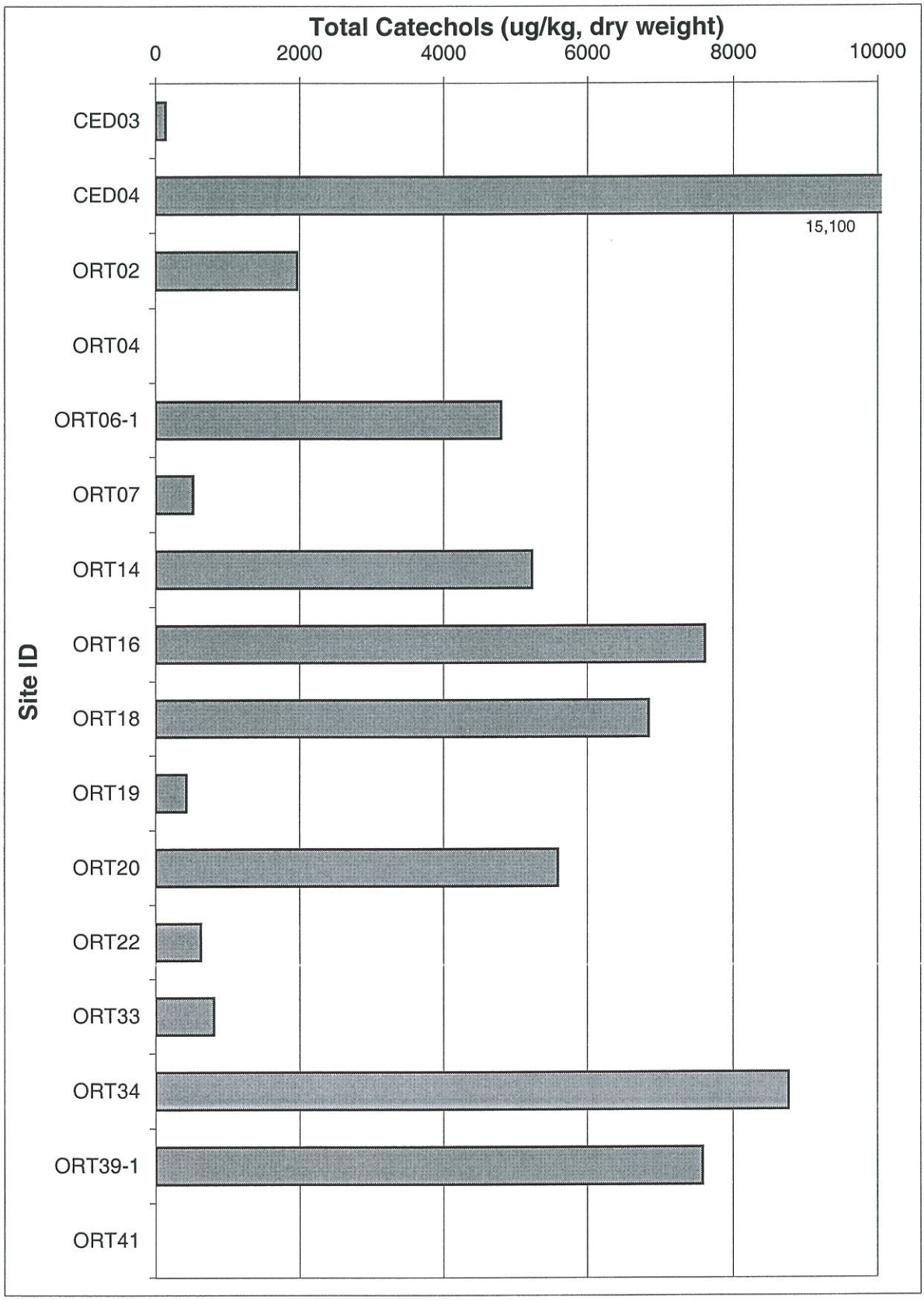
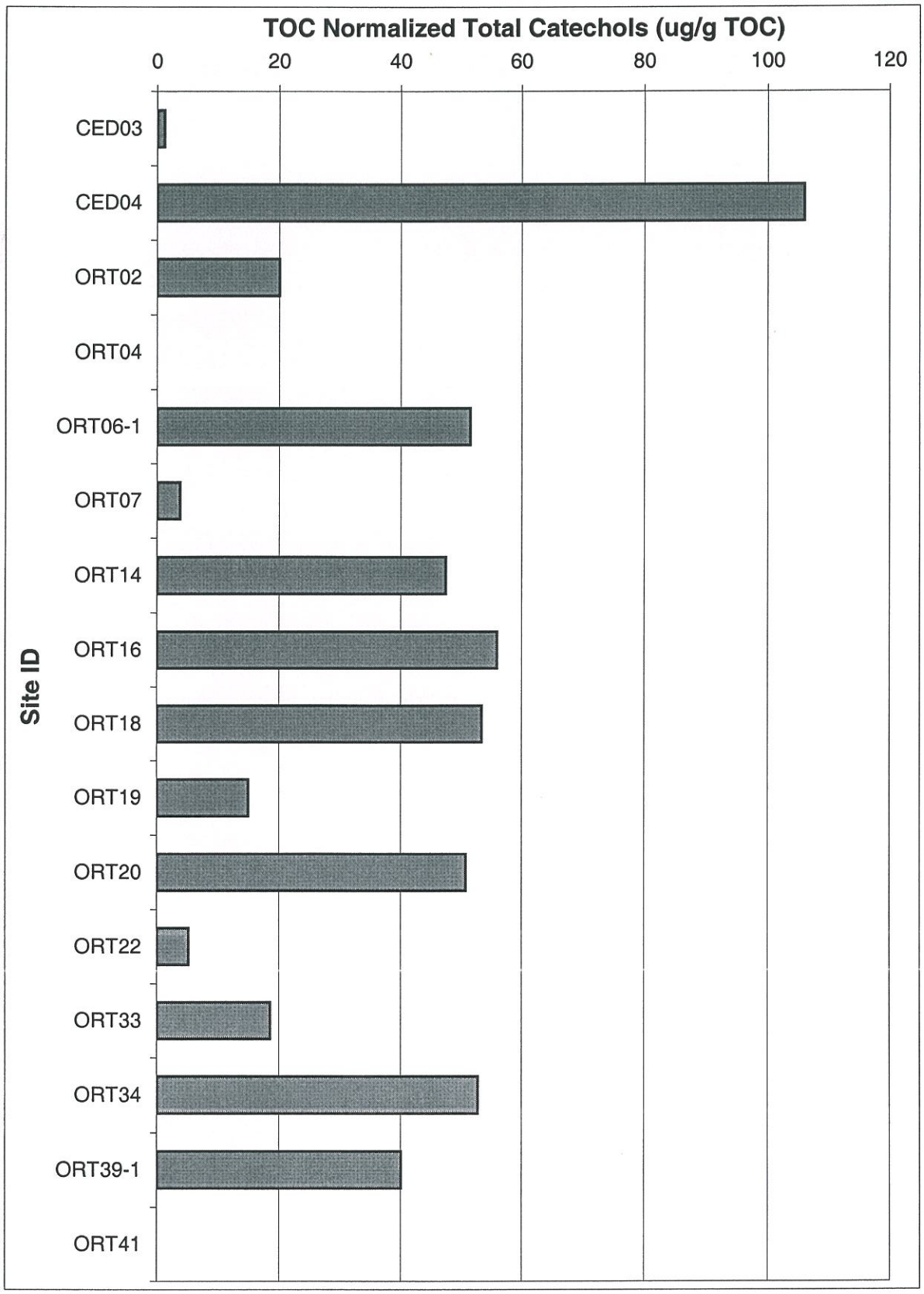
ORT34
ORT39-1
ORT41


TOC Normalized Total Anisoles (ug/g TOC)
0
1
2
3
4
5
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41

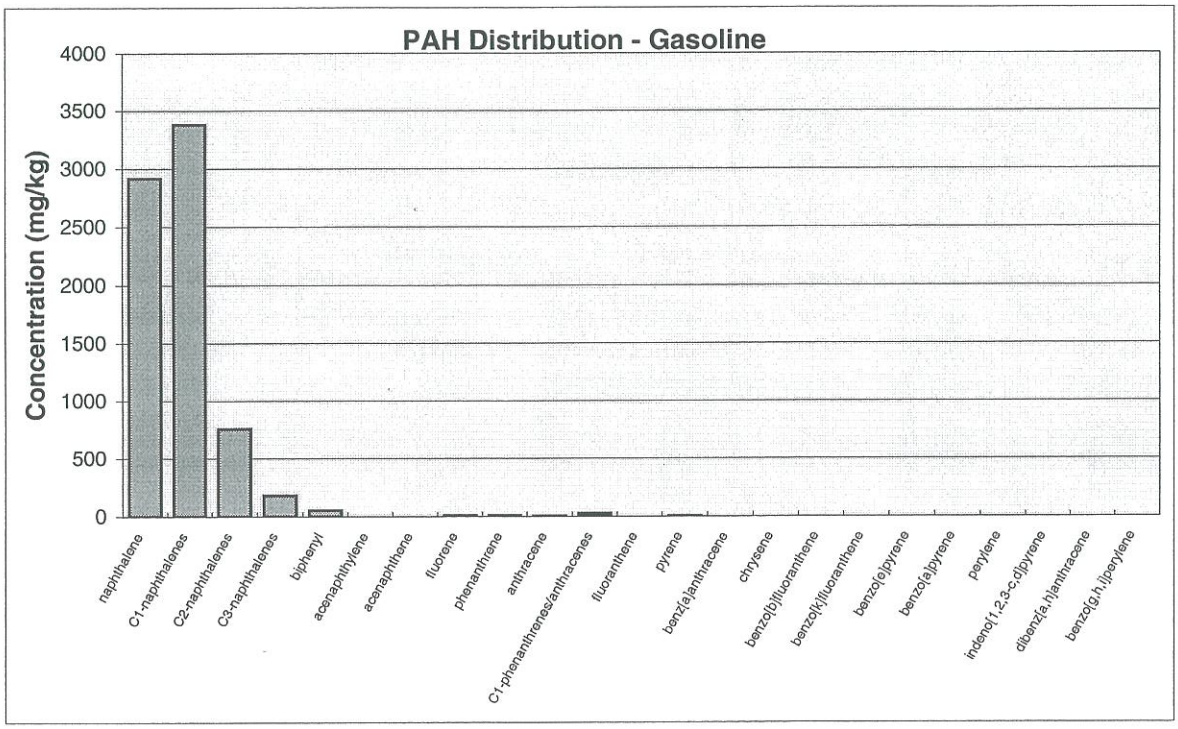

Total Guiacaols (ug/kg, dry weight)
0
500
1000
1500
2000
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
4350
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41

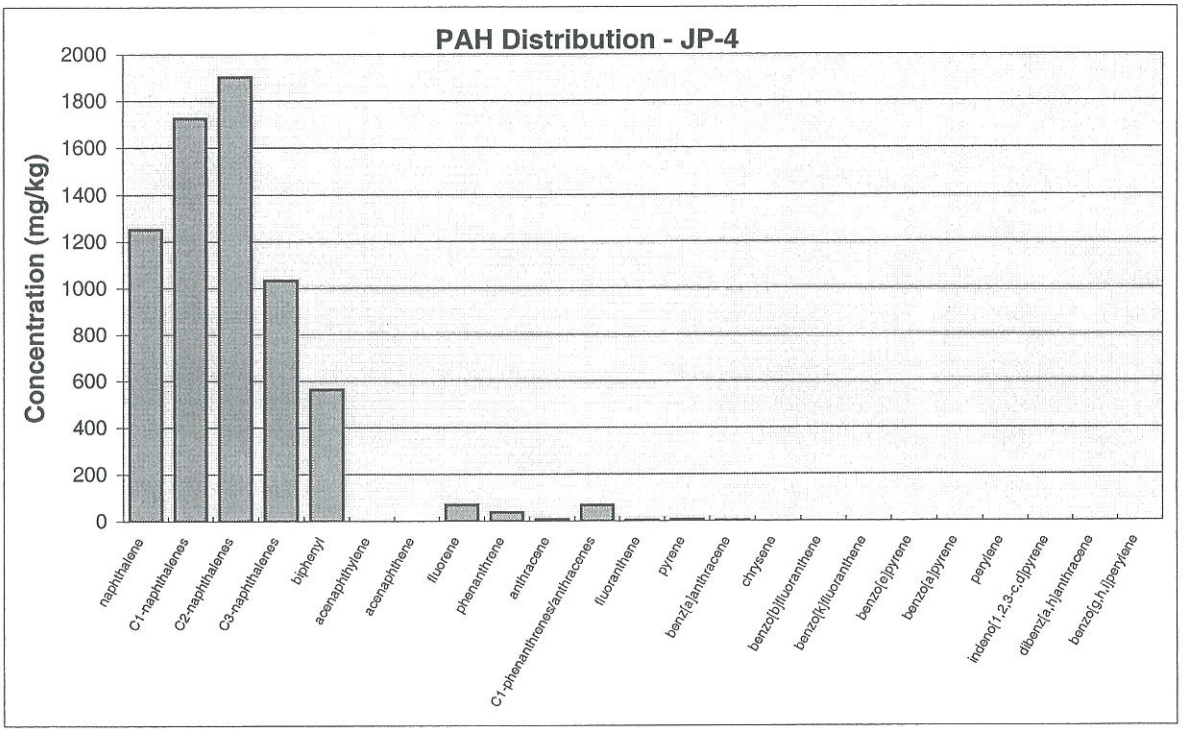

TOC Normalized Total Guiacaols (ug/g TOC)
0
5
10
15
20
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41
32

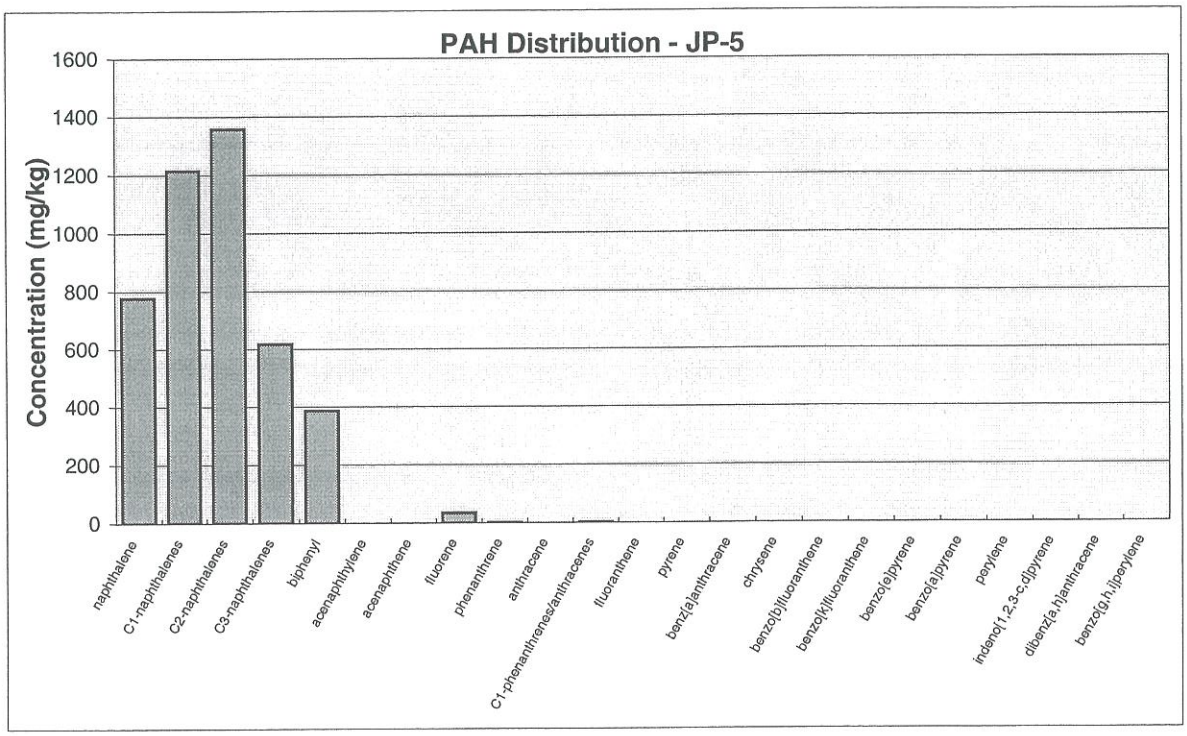

Total Catechols (ug/kg, dry weight)
0
2000
4000
6000
8000
10000
Site ID
CED03
CED04
15,100
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41

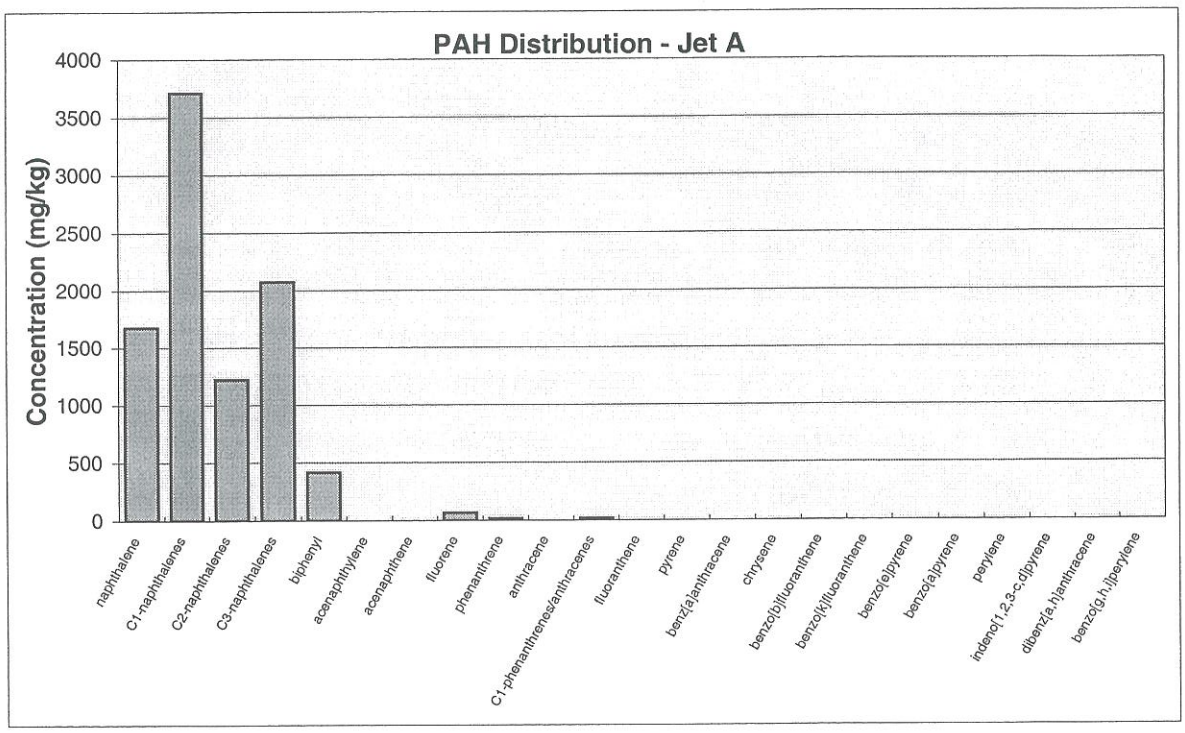

TOC Normalized Total Catechols (ug/g TOC)
0
20
40
60
80
100
120
Site ID
CED03
CED04
ORT02
ORT04
ORT06-1
ORT07
ORT14
ORT16
ORT18
ORT19
ORT20
ORT22
ORT33
ORT34
ORT39-1
ORT41

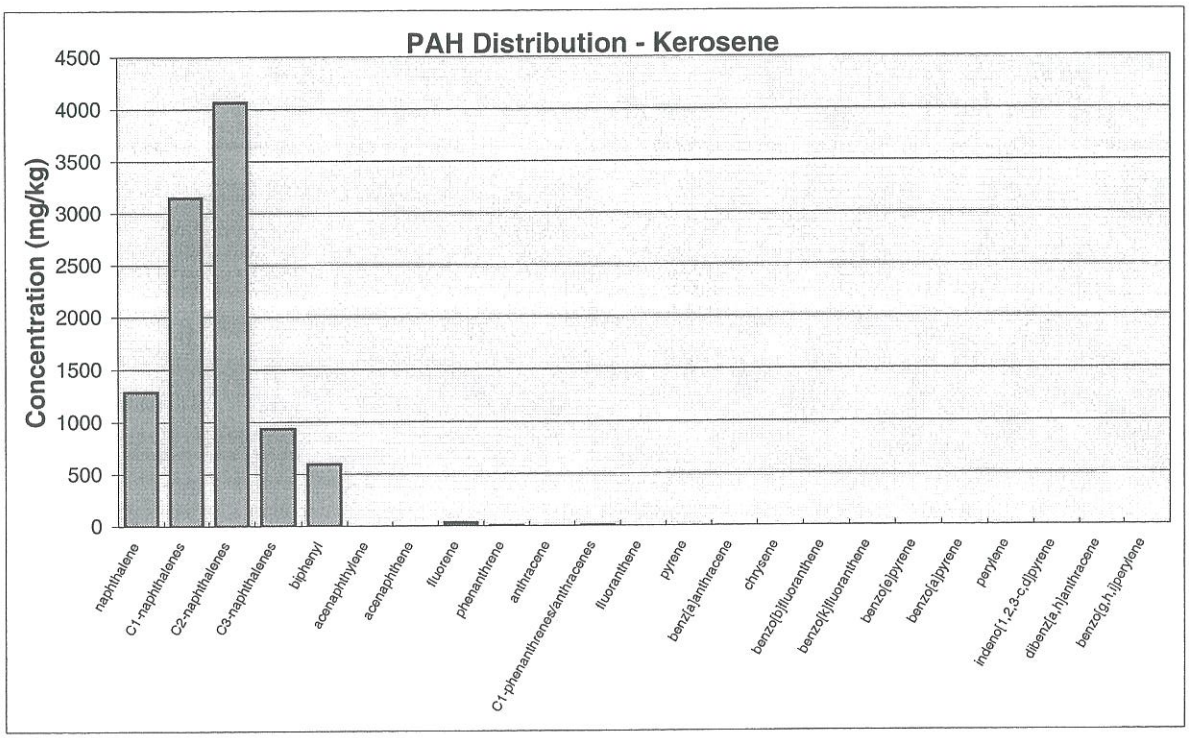
Appendix J. PAH Composition for Selected Sample Types and Petroleum Products

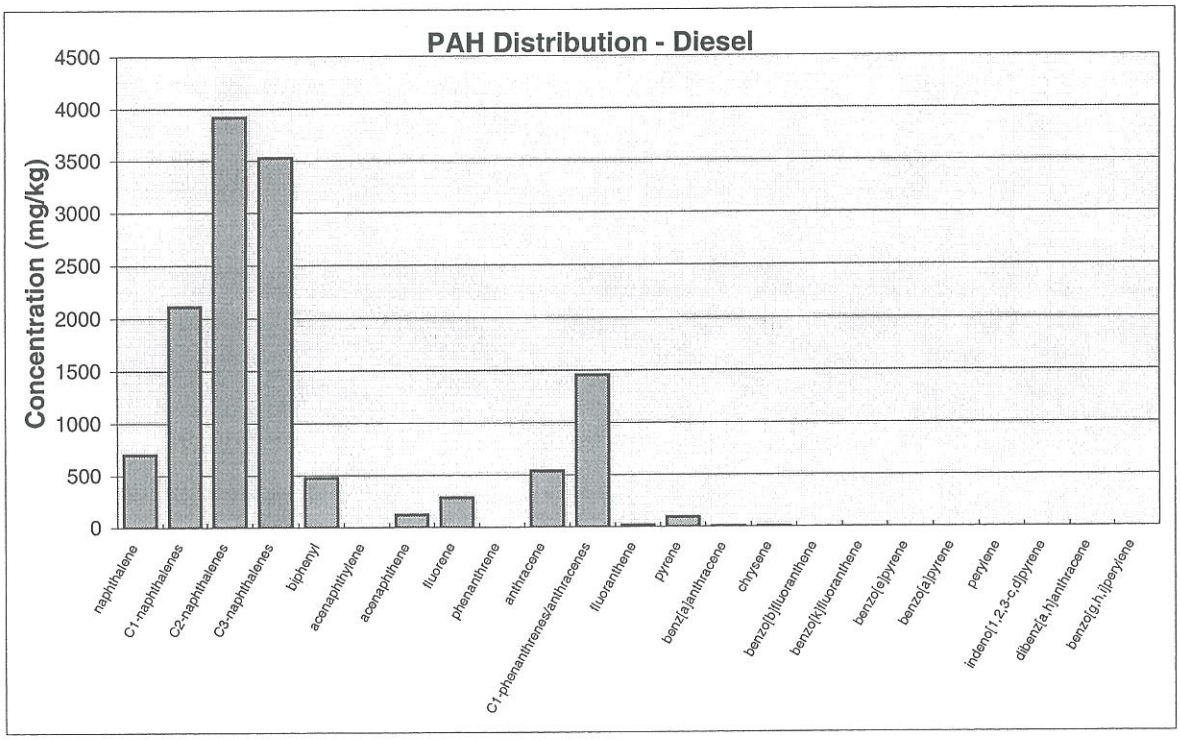

PAH Distribution - Gasoline
Concentration (mg/kg)
4000
3500
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

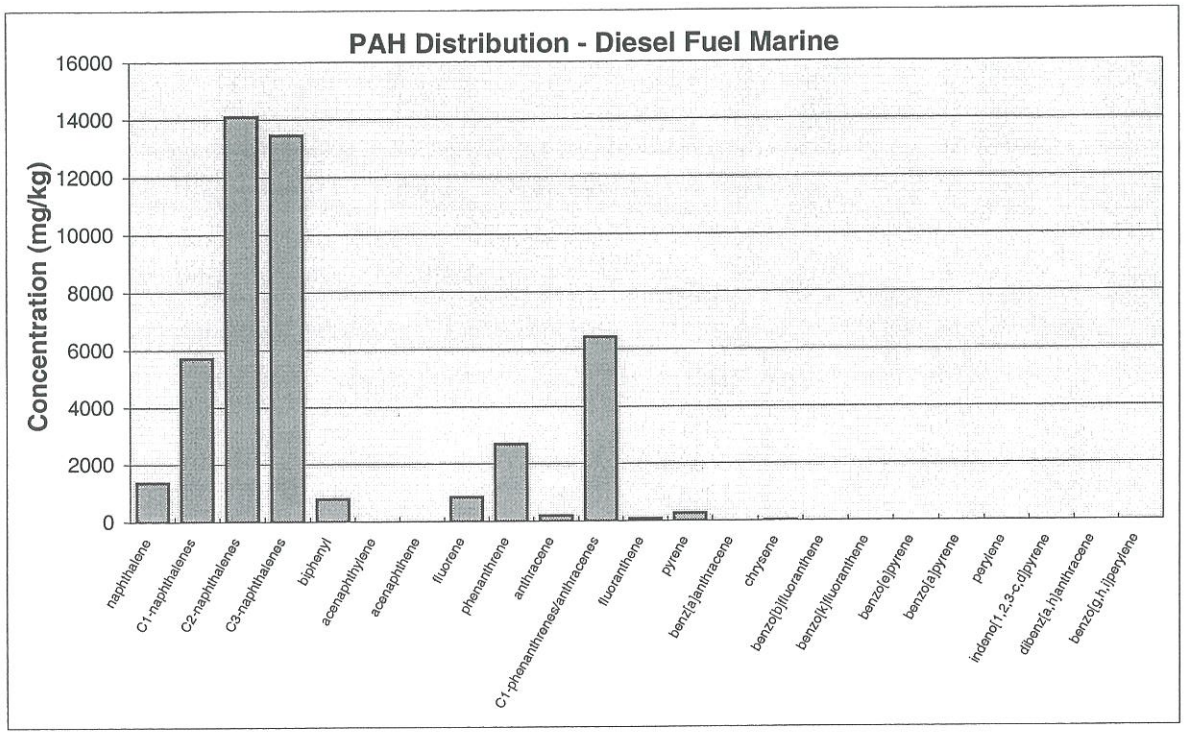

PAH Distribution - JP-4
Concentration (mg/kg)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

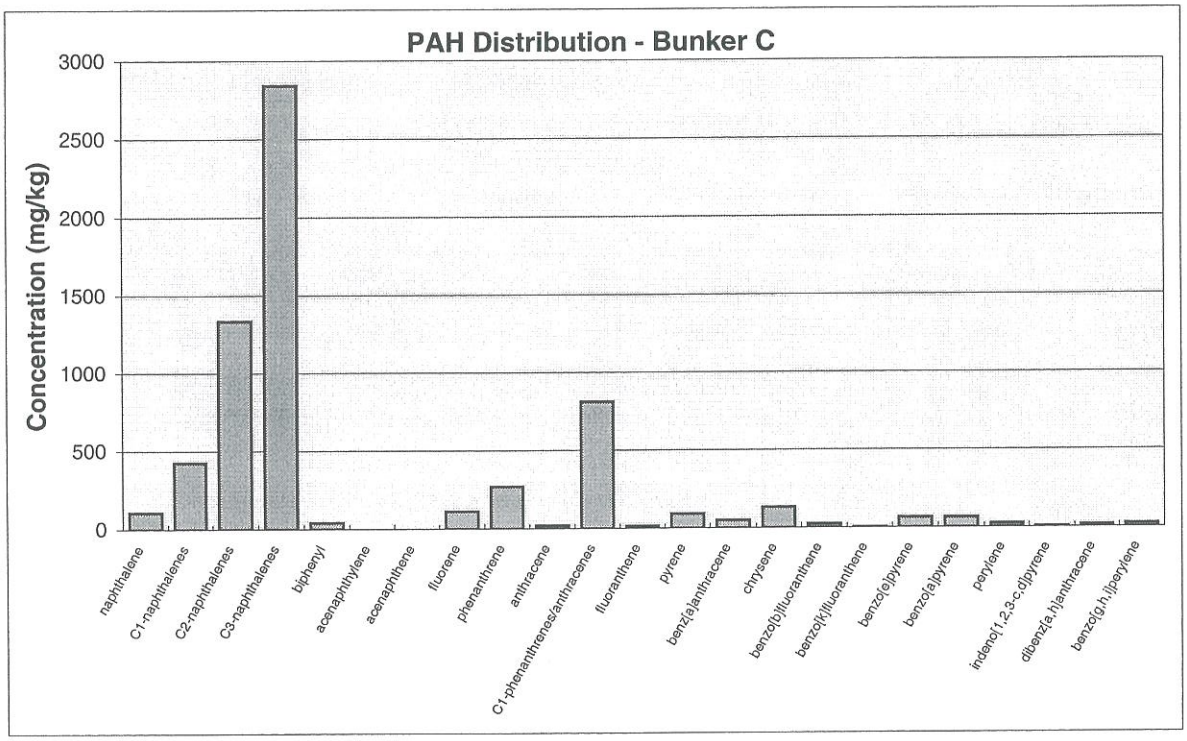

PAH Distribution - JP-5
Concentration (mg/kg)
1600
1400
1200
1000
800
600
400
200
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

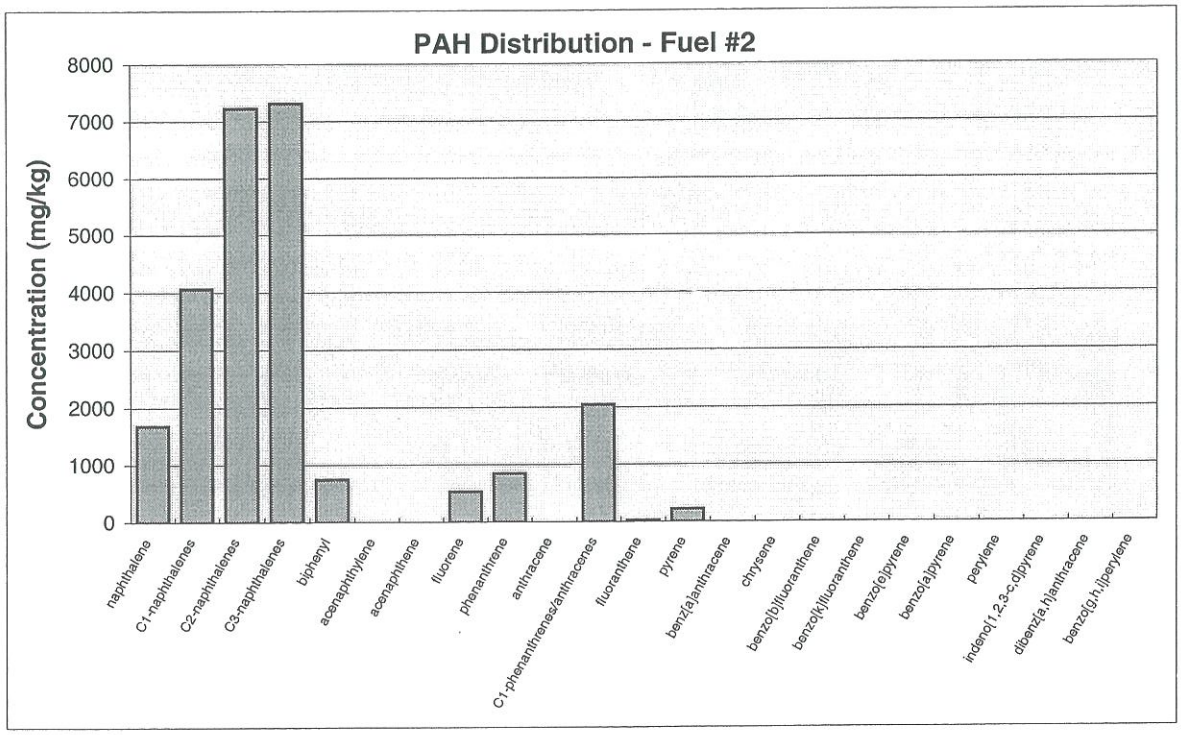

PAH Distribution - Jet A
Concentration (mg/kg)
4000
3500
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

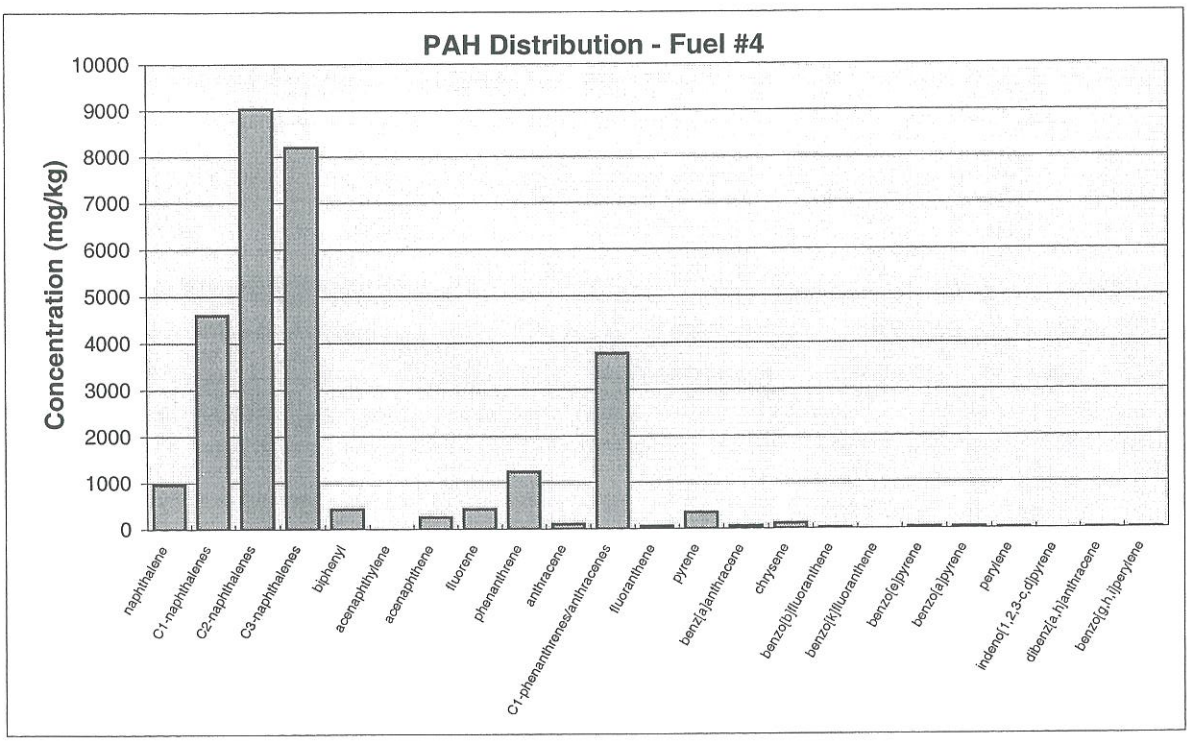

PAH Distribution - Kerosene
Concentration (mg/kg)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

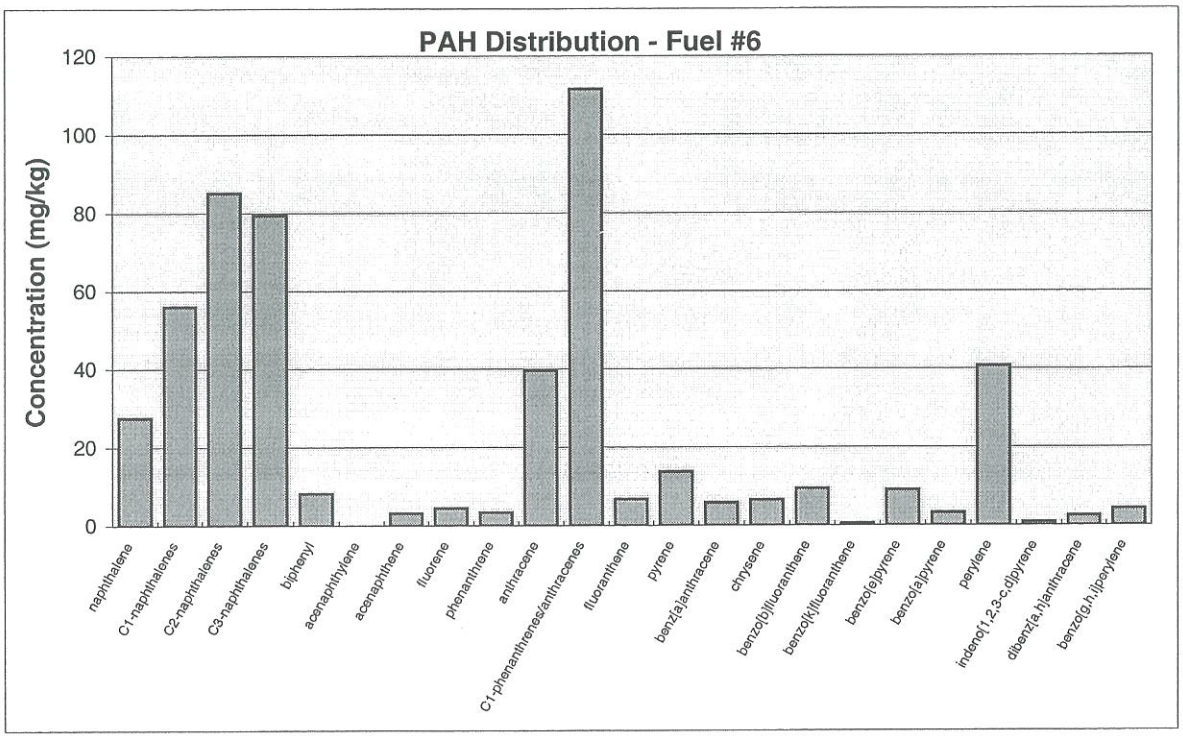

PAH Distribution - Diesel
Concentration (mg/kg)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

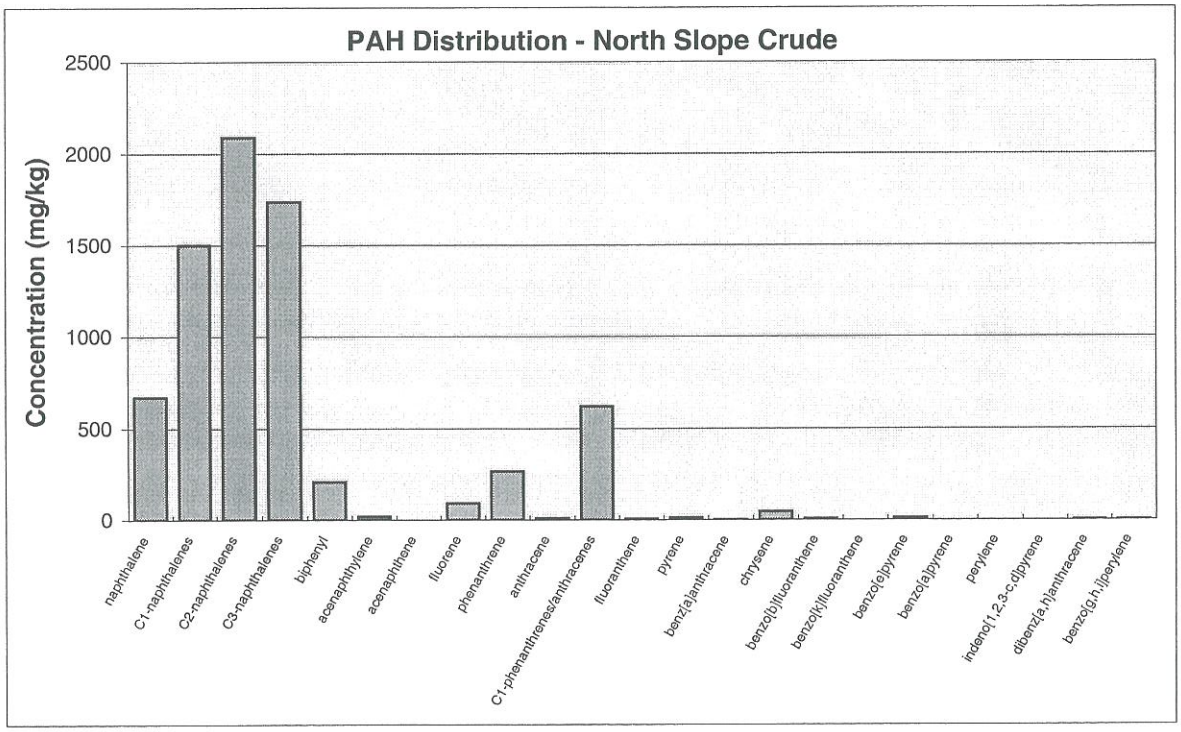

PAH Distribution - Diesel Fuel Marine
Concentration (mg/kg)
16000
14000
12000
10000
8000
6000
4000
2000
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

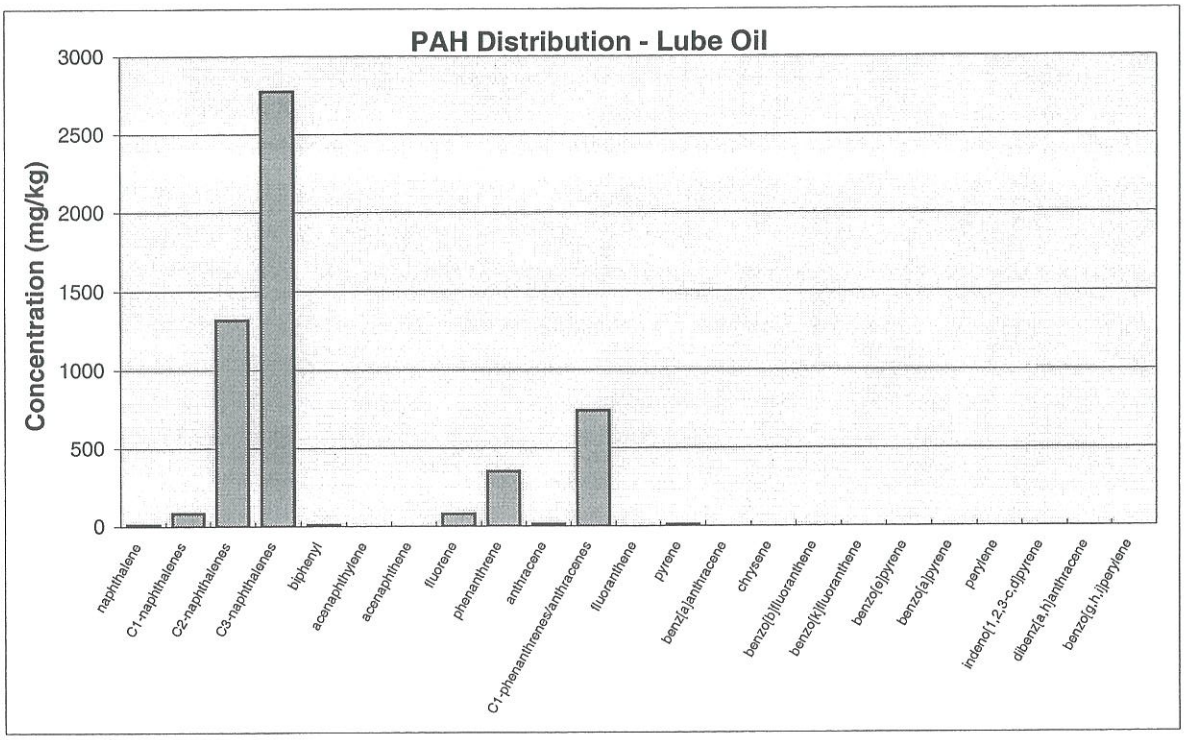

PAH Distribution - Bunker C
Concentration (mg/kg)
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

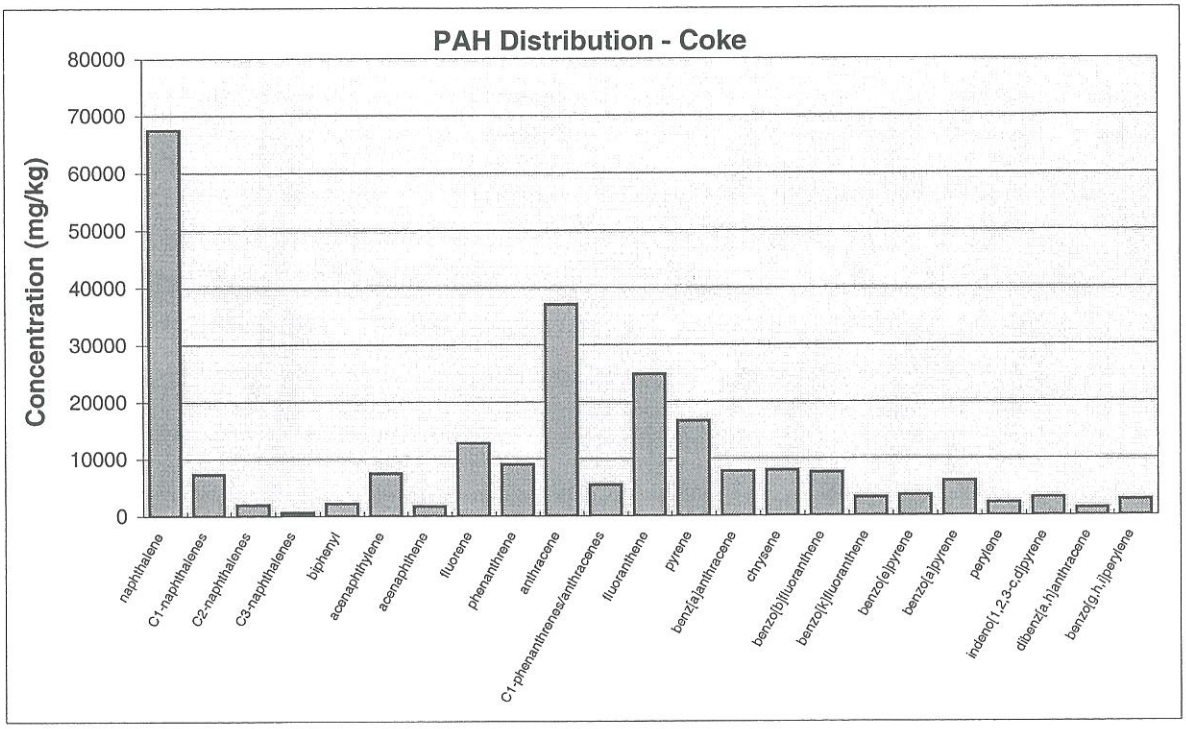

PAH Distribution - Fuel #2
Concentration (mg/kg)
8000
7000
6000
5000
4000
3000
2000
1000
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

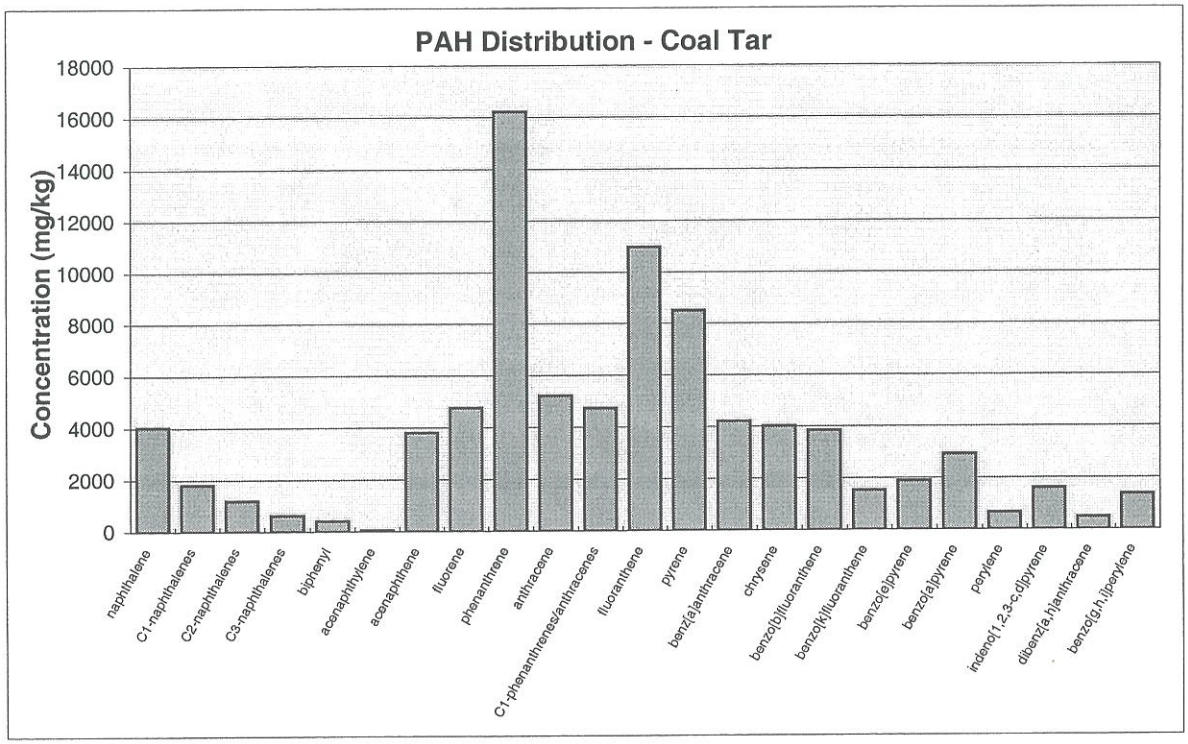

PAH Distribution - Fuel #4
Concentration (mg/kg)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

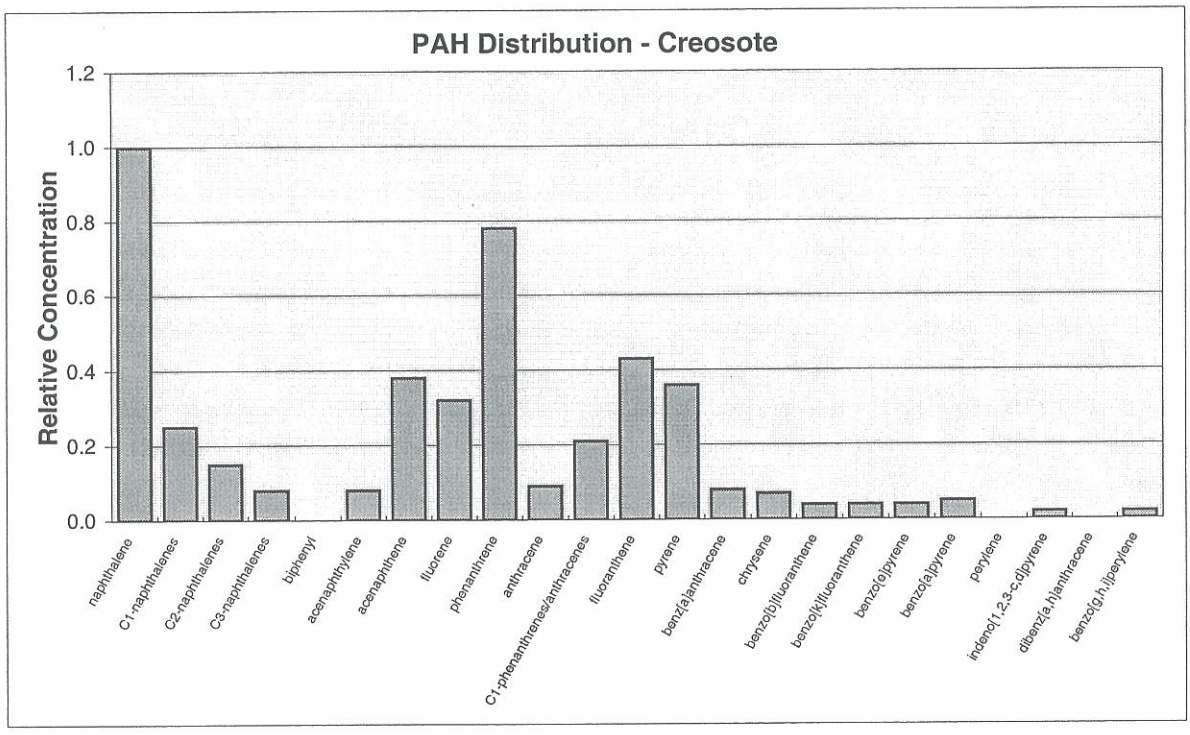

PAH Distribution - Fuel #6
Concentration (mg/kg)
120
100
80
60
40
20
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

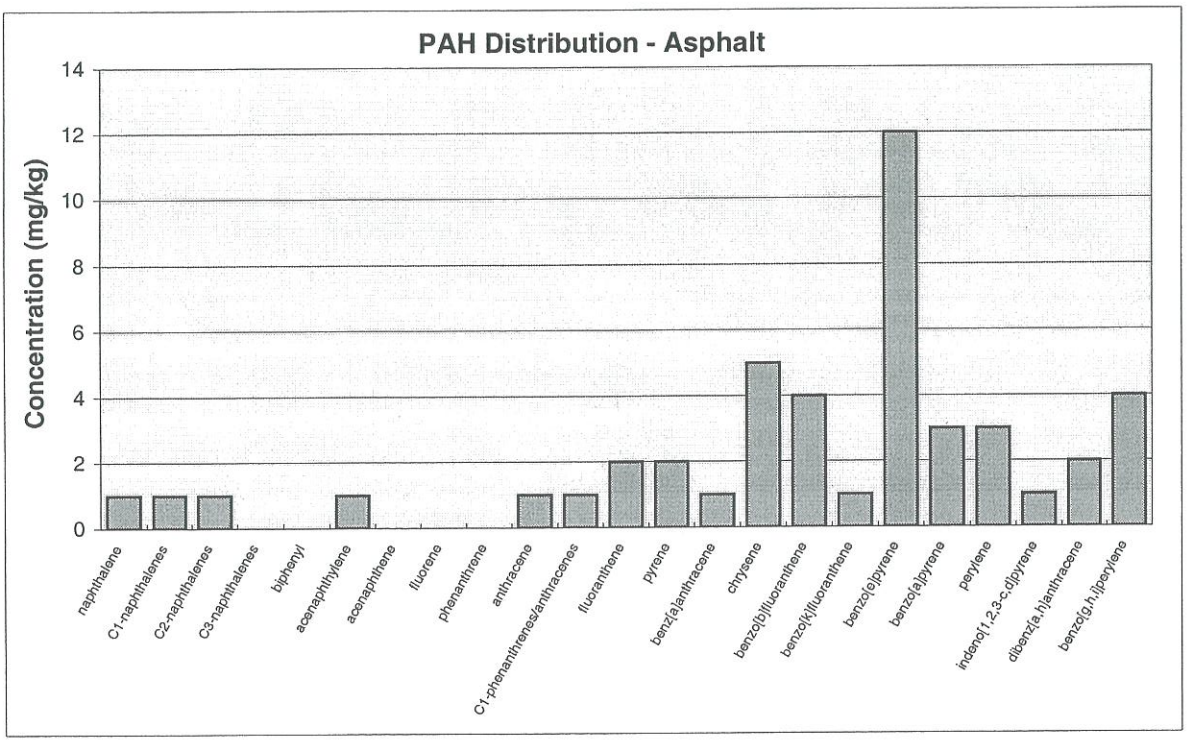

PAH Distribution - North Slope Crude
Concentration (mg/kg)
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

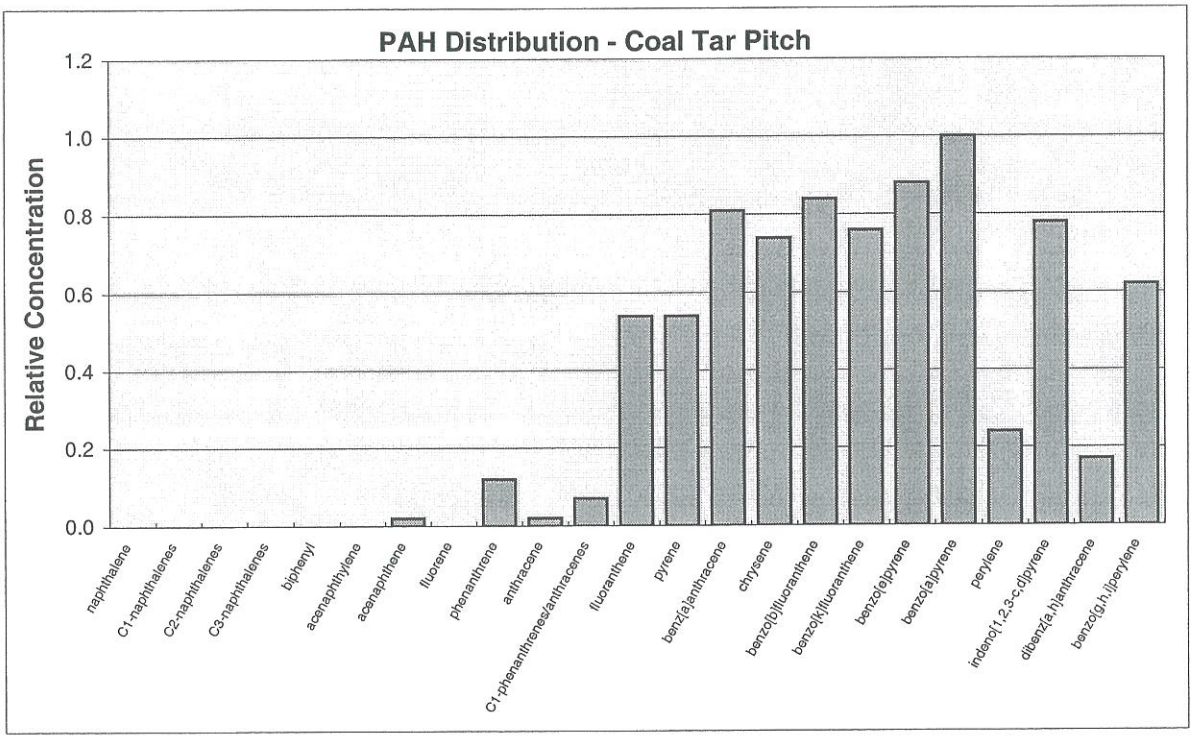

PAH Distribution - Lube Oil
Concentration (mg/kg)
3000
2500
2000
1500
1000
500
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

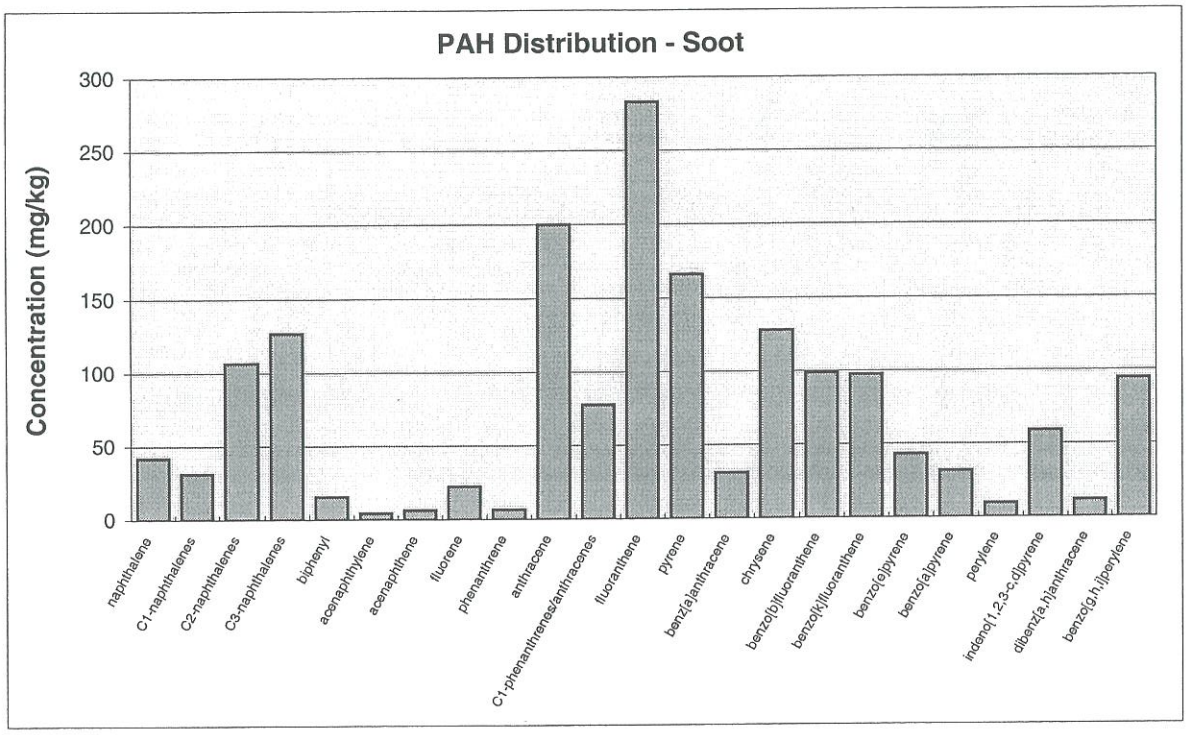

PAH Distribution - Coke
Concentration (mg/kg)
80000
70000
60000
50000
40000
30000
20000
10000
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

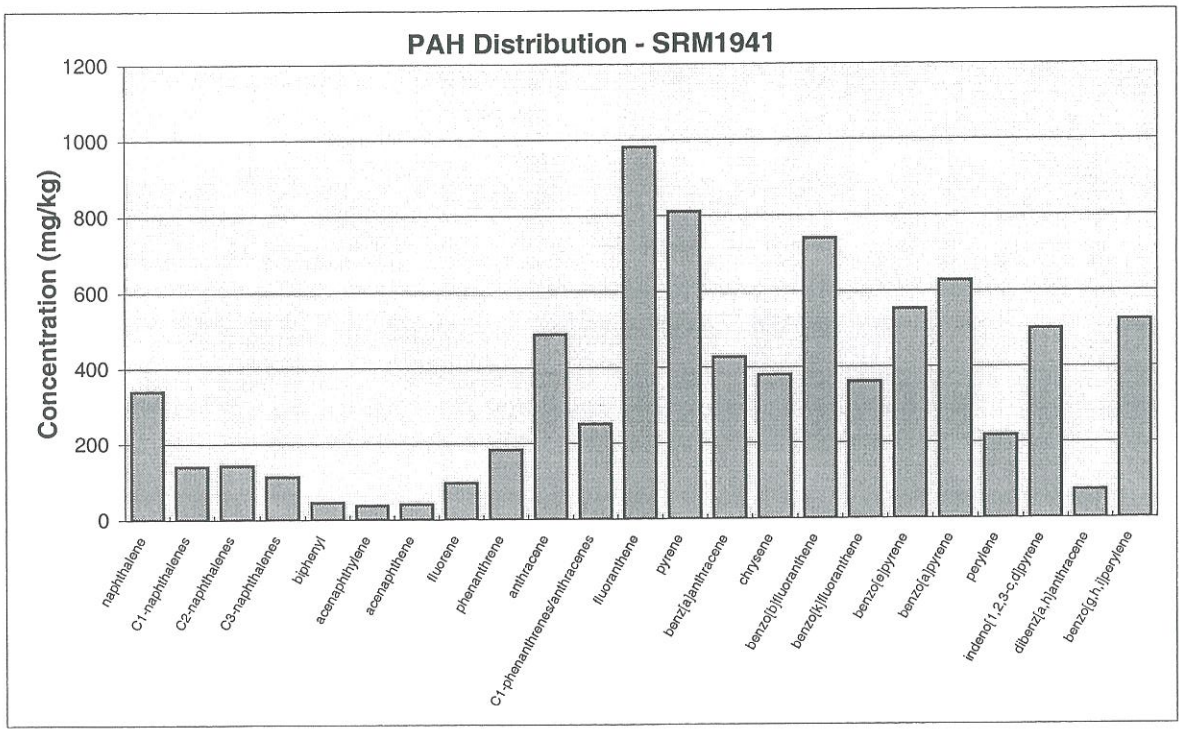

PAH Distribution - Coal Tar
Concentration (mg/kg)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene


PAH Distribution - Creosote
Relative Concentration
1.2
1.0
0.8
0.6
0.4
0.2
0.0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

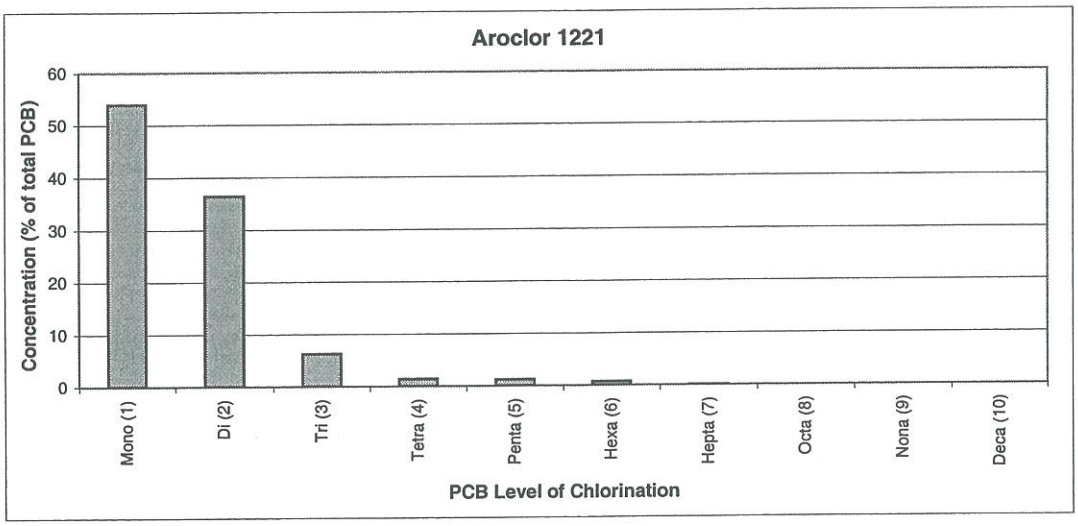

PAH Distribution - Asphalt
Concentration (mg/kg)
14
12
10
8
6
4
2
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo(b)fluoranthene
benzo(k)fluoranthene
benzo(e)pyrene
benzo(a)pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

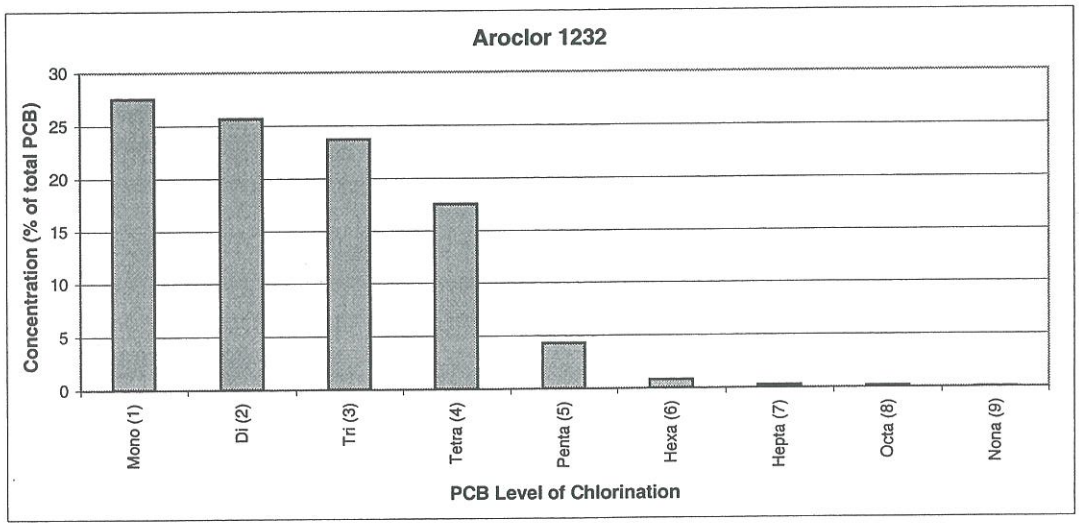

PAH Distribution - Coal Tar Pitch
Relative Concentration
1.2
1.0
0.8
0.6
0.4
0.2
0.0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo(b)fluoranthene
benzo(k)fluoranthene
benzo(e)pyrene
benzo(a)pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

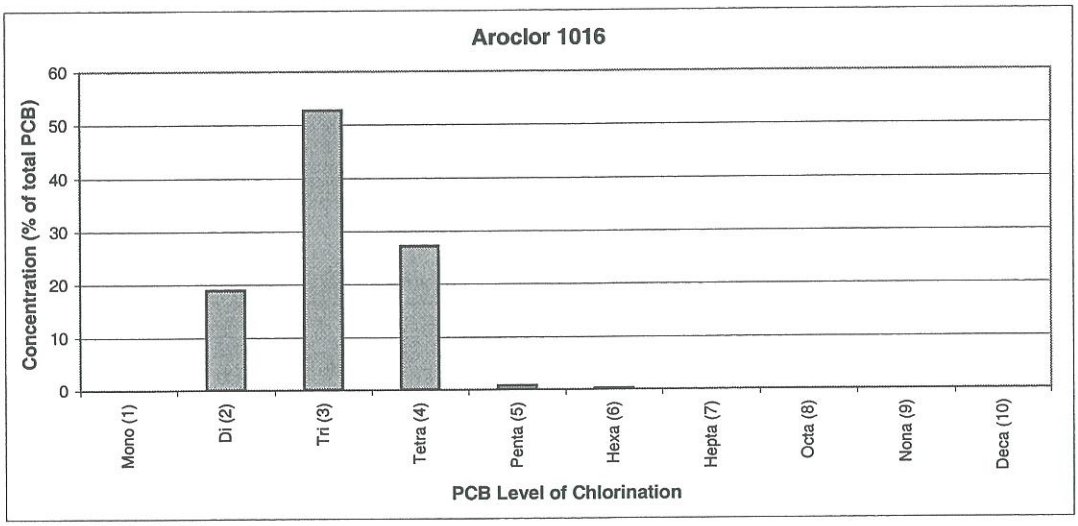

PAH Distribution - Soot
Concentration (mg/kg)
300
250
200
150
100
50
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

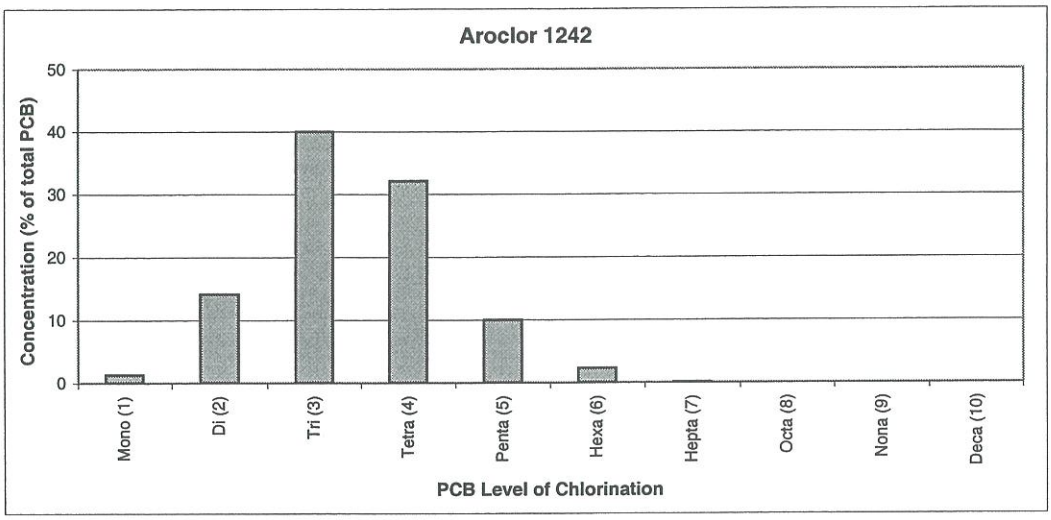

PAH Distribution - SRM1941
Concentration (mg/kg)
1200
1000
800
600
400
200
0
naphthalene
C1-naphthalenes
C2-naphthalenes
C3-naphthalenes
biphenyl
acenaphthylene
acenaphthene
fluorene
phenanthrene
anthracene
C1-phenanthrenes/anthracenes
fluoranthene
pyrene
benz[a]anthracene
chrysene
benzo[b]fluoranthene
benzo[k]fluoranthene
benzo[e]pyrene
benzo[a]pyrene
perylene
indeno[1,2,3-c,d]pyrene
dibenz[a,h]anthracene
benzo[g,h,i]perylene

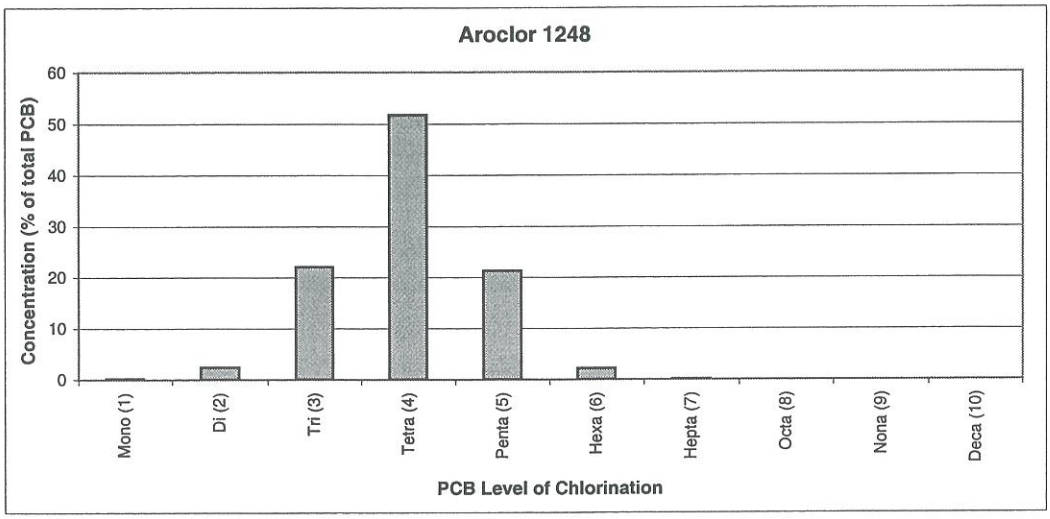
Appendix K. PCB Homologue and Congener Composition for Selected Aroclor Formulation Products

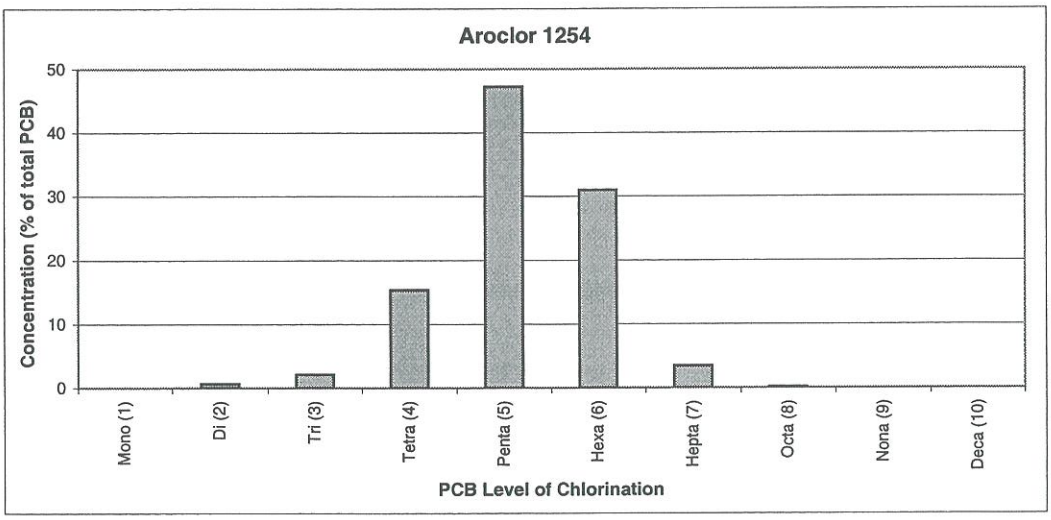

Aroclor 1221
Concentration (% of total PCB)
60
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

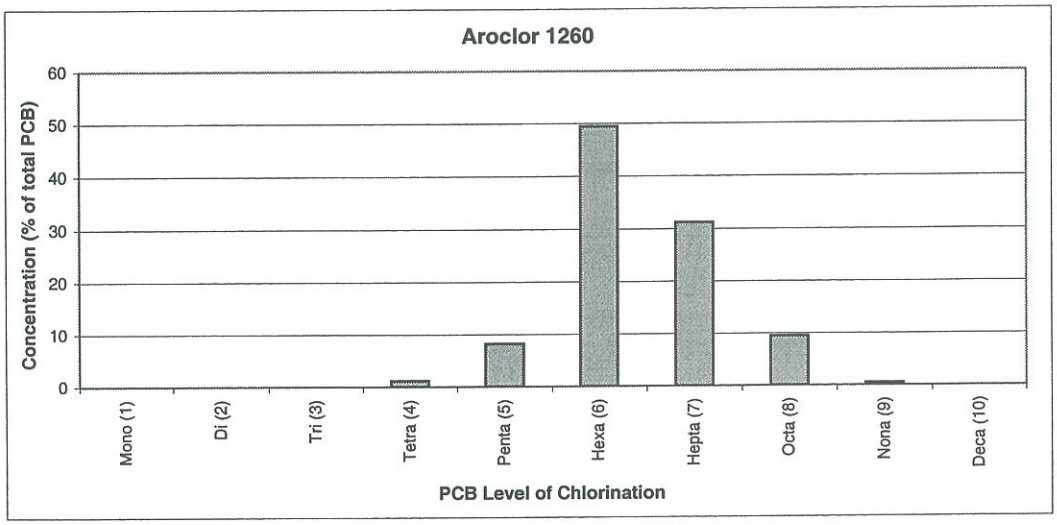

Aroclor 1232
Concentration (% of total PCB)
30
25
20
15
10
5
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
PCB Level of Chlorination

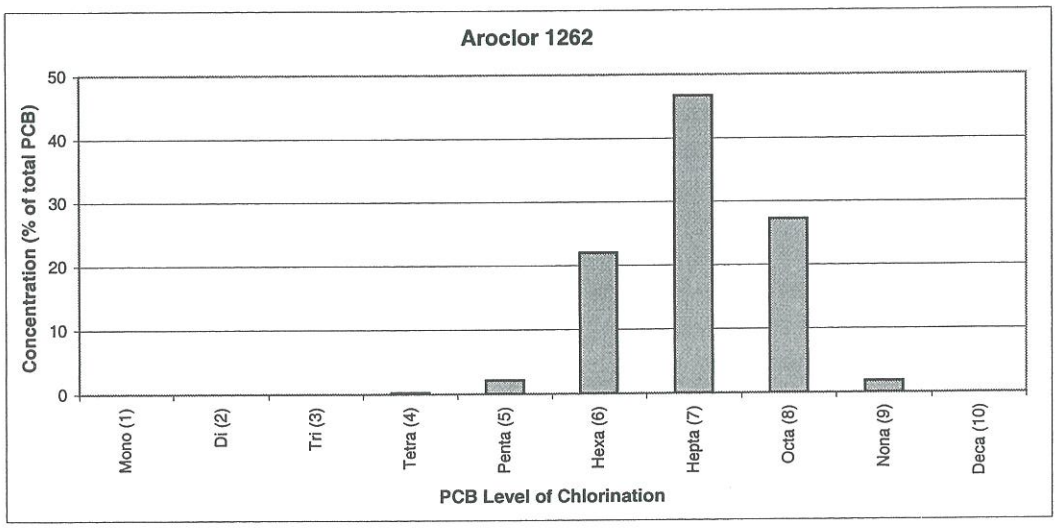

Aroclor 1016
Concentration (% of total PCB)
60
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

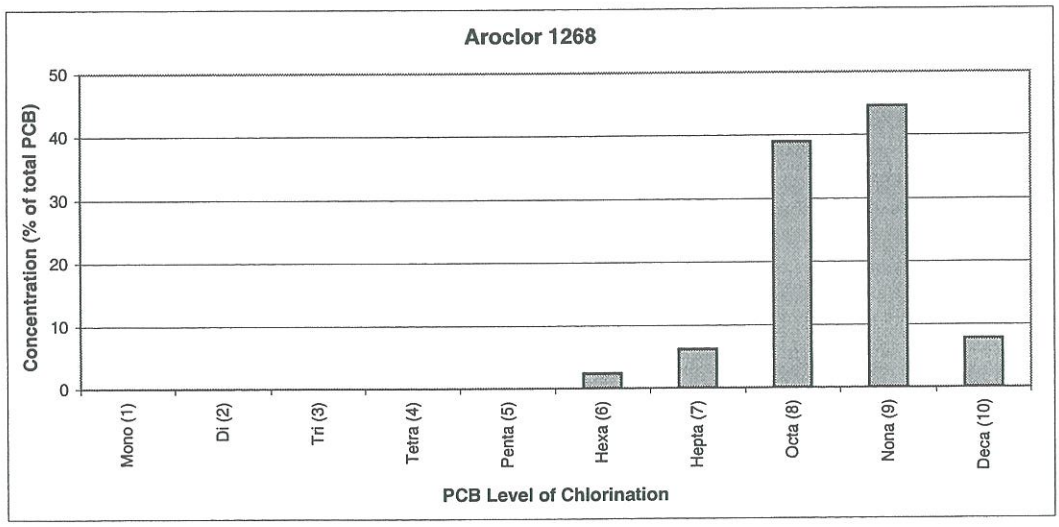

Aroclor 1242
Concentration (% of total PCB)
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

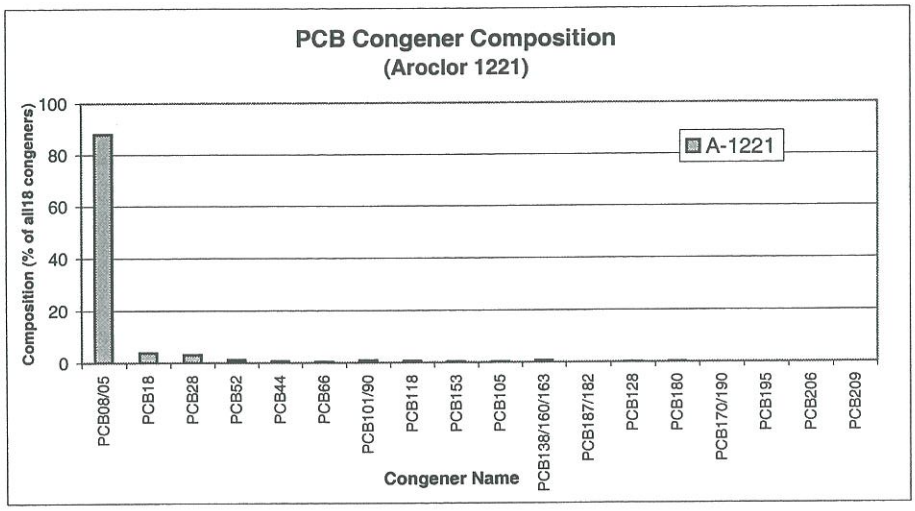

Aroclor 1248
Concentration (% of total PCB)
60
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

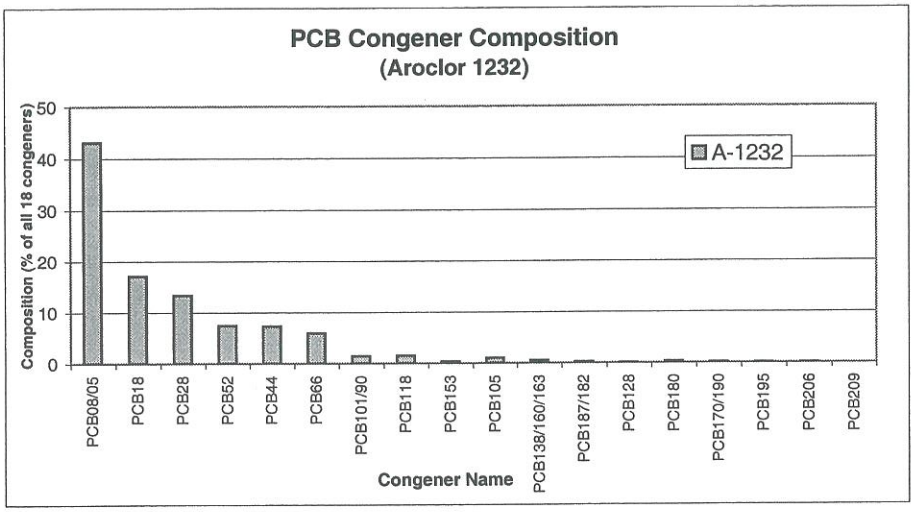

Aroclor 1254
Concentration (% of total PCB)
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

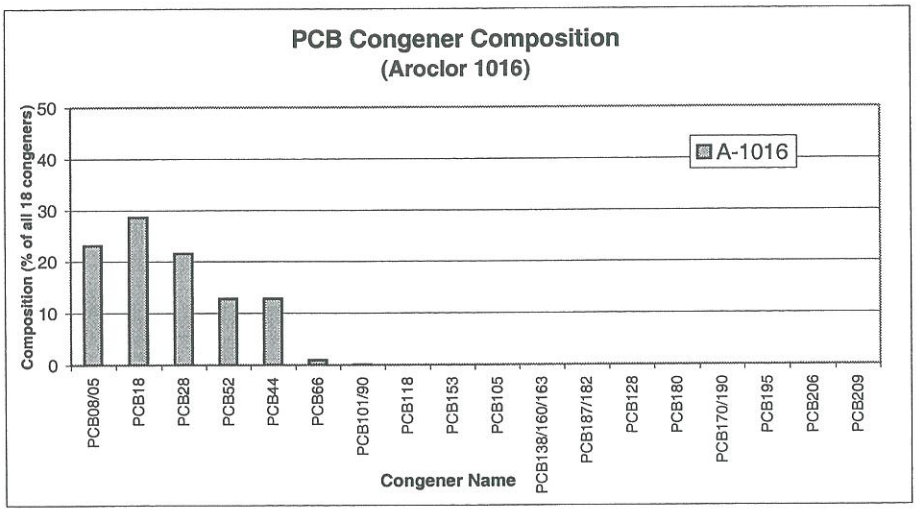

Aroclor 1260
Concentration (% of total PCB)
60
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

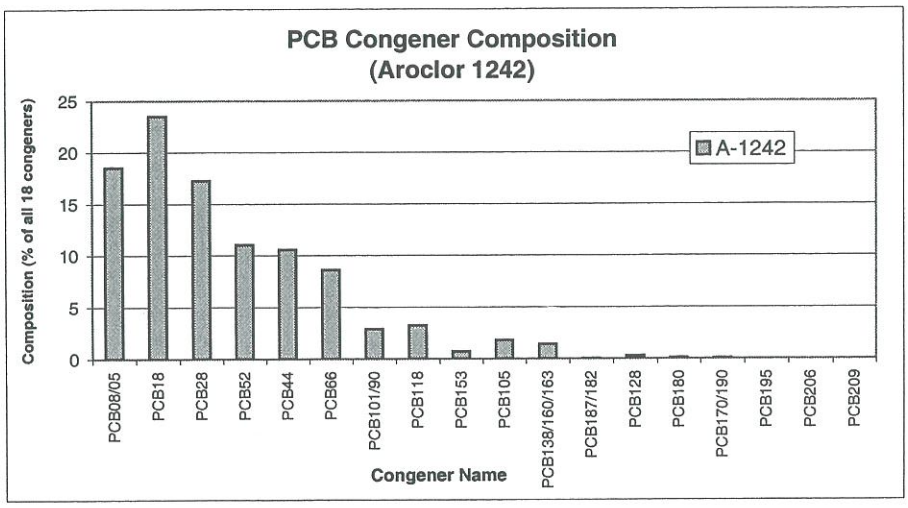

Aroclor 1262
Concentration (% of total PCB)
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

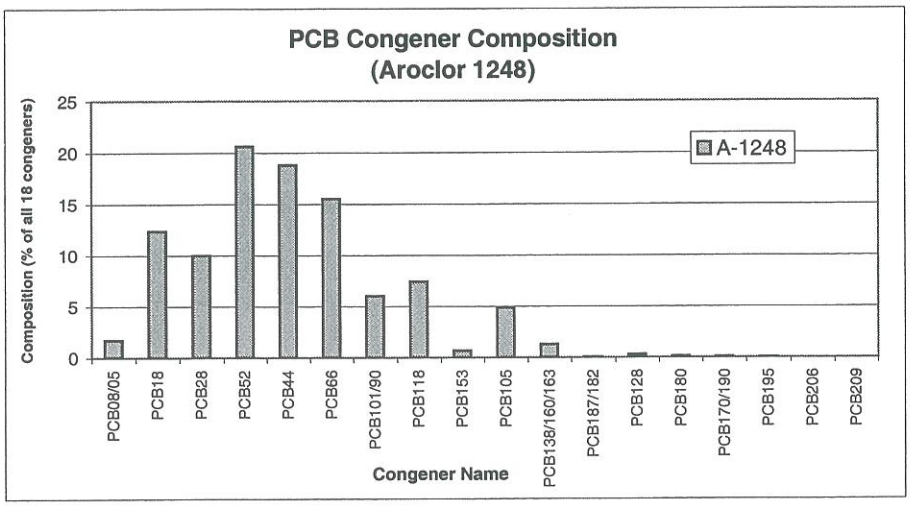

Aroclor 1268
Concentration (% of total PCB)
50
40
30
20
10
0
Mono (1)
Di (2)
Tri (3)
Tetra (4)
Penta (5)
Hexa (6)
Hepta (7)
Octa (8)
Nona (9)
Deca (10)
PCB Level of Chlorination

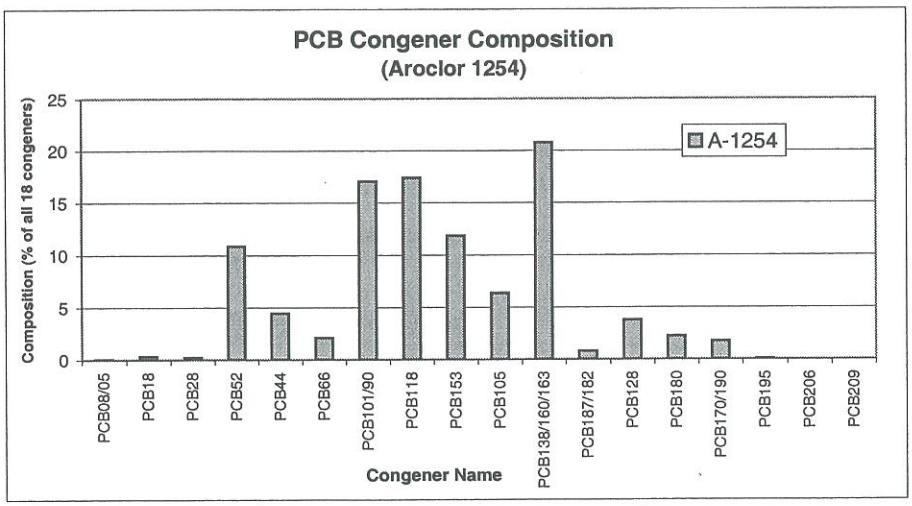

PCB Congener Composition
(Aroclor 1221)
Composition (% of all18 congeners)
100
80
60
40
20
0
A-1221
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

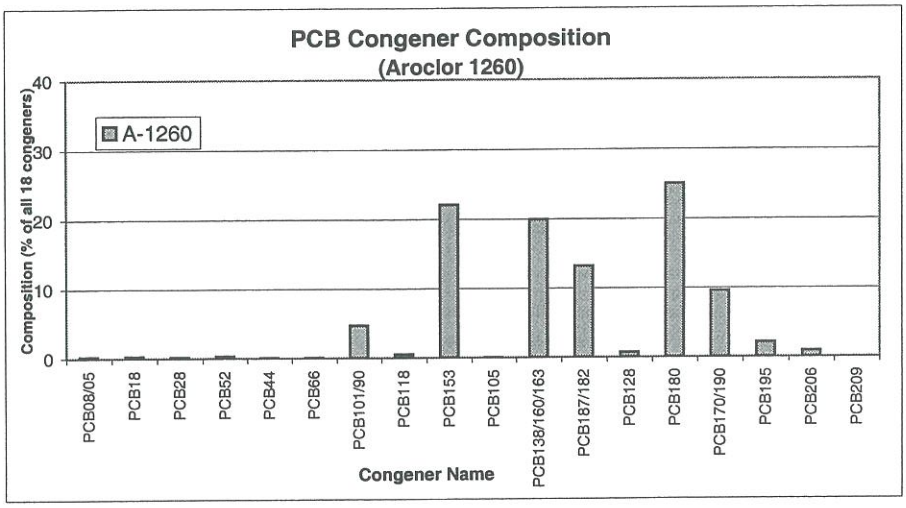

PCB Congener Composition
(Aroclor 1232)
Composition (% of all 18 congeners)
50
40
30
20
10
0
A-1232
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

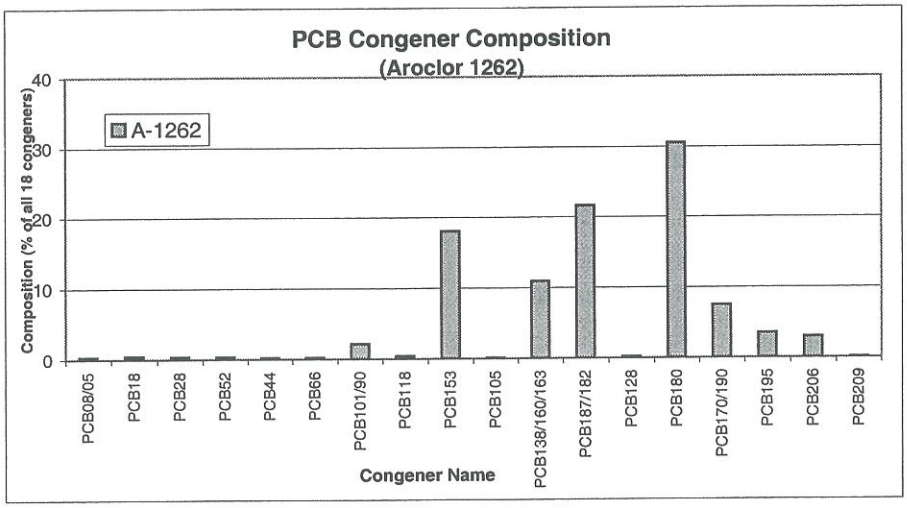

PCB Congener Composition
(Aroclor 1016)
Composition (% of all 18 congeners)
50
40
30
20
10
0
A-1016
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

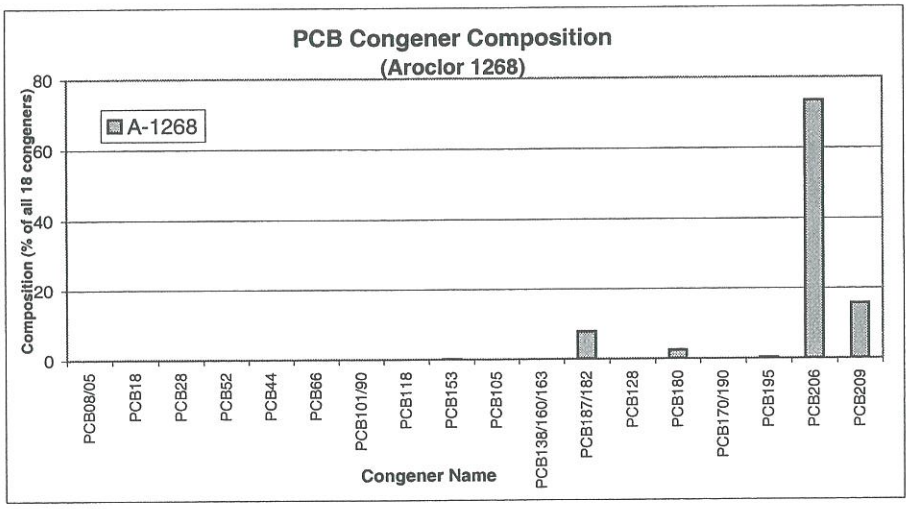

PCB Congener Composition
(Aroclor 1242)
Composition (% of all 18 congeners)
25
20
15
10
5
0
A-1242
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

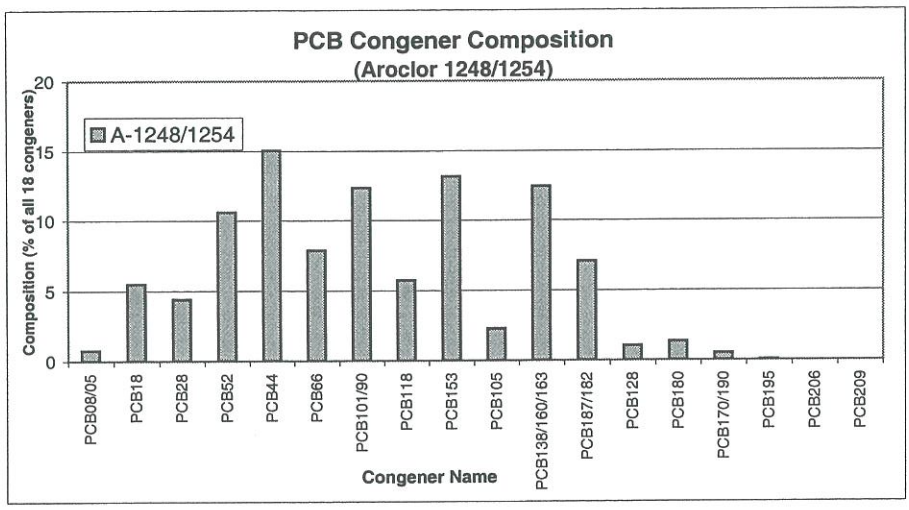

PCB Congener Composition
(Aroclor 1248)
Composition (% of all 18 congeners)
25
20
15
10
5
0
A-1248
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

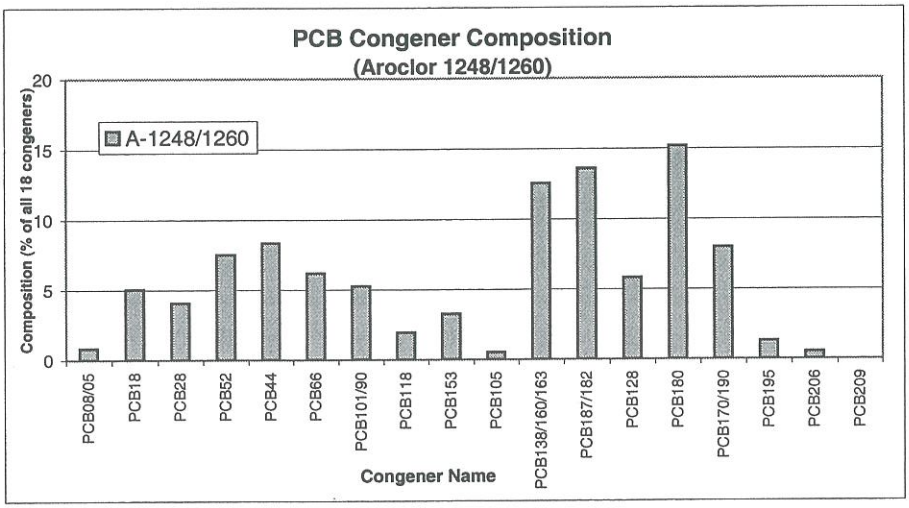

PCB Congener Composition
(Aroclor 1254)
Composition (% of all 18 congeners)
25
20
15
10
5
0
A-1254
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

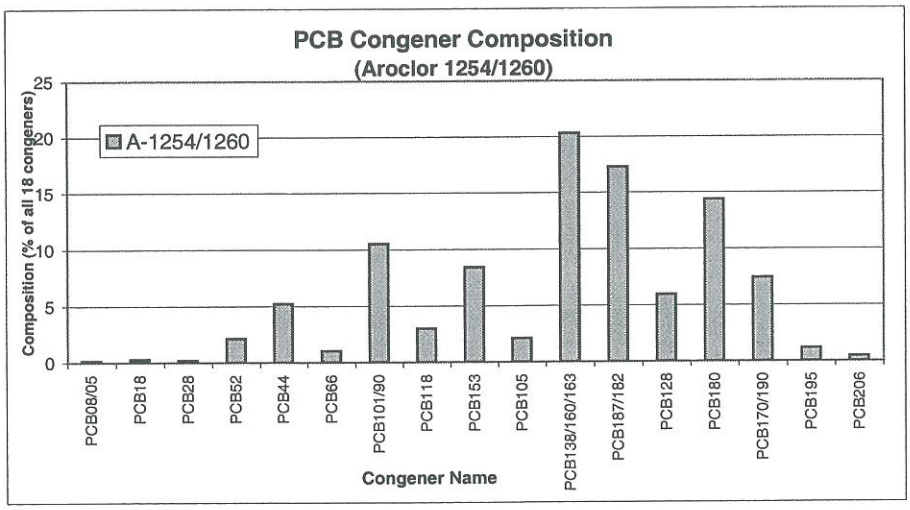

PCB Congener Composition
(Aroclor 1260)
A-1260
Composition (% of all 18 congeners)
0
10
20
30
40
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

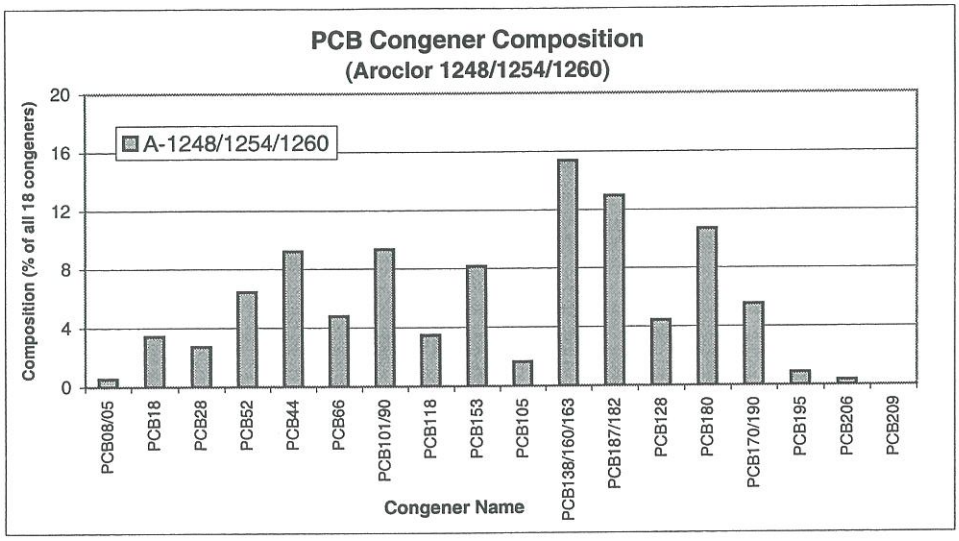

PCB Congener Composition
(Aroclor 1262)
A-1262
Composition (% of all 18 congeners)
0
10
20
30
40
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

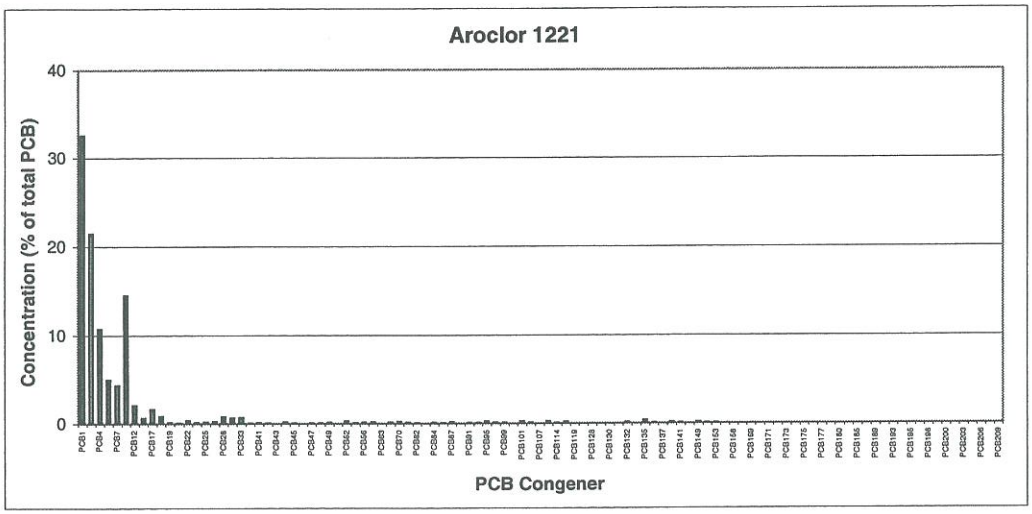

PCB Congener Composition
(Aroclor 1268)
A-1268
Composition (% of all 18 congeners)
0
20
40
60
80
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

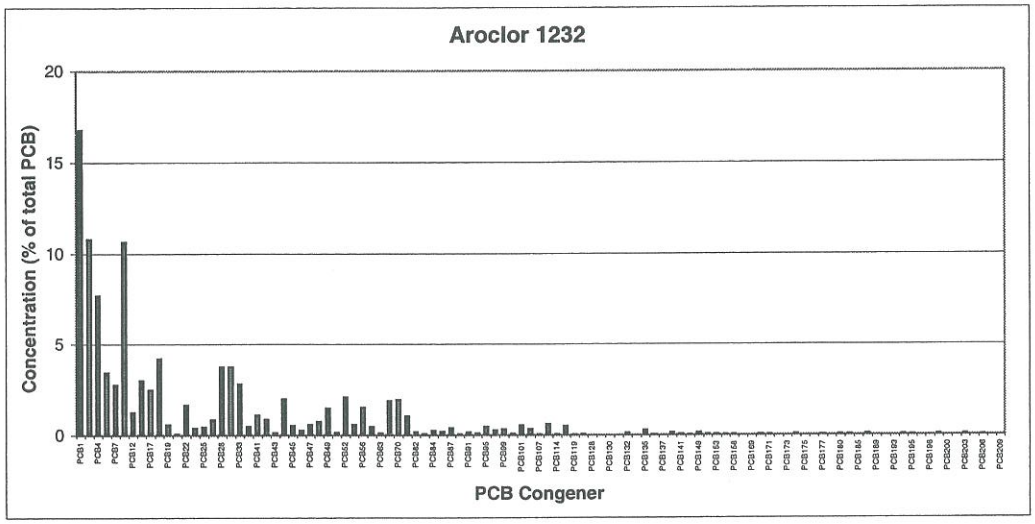

PCB Congener Composition
(Aroclor 1248/1254)
A-1248/1254
Composition (% of all 18 congeners)
0
5
10
15
20
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

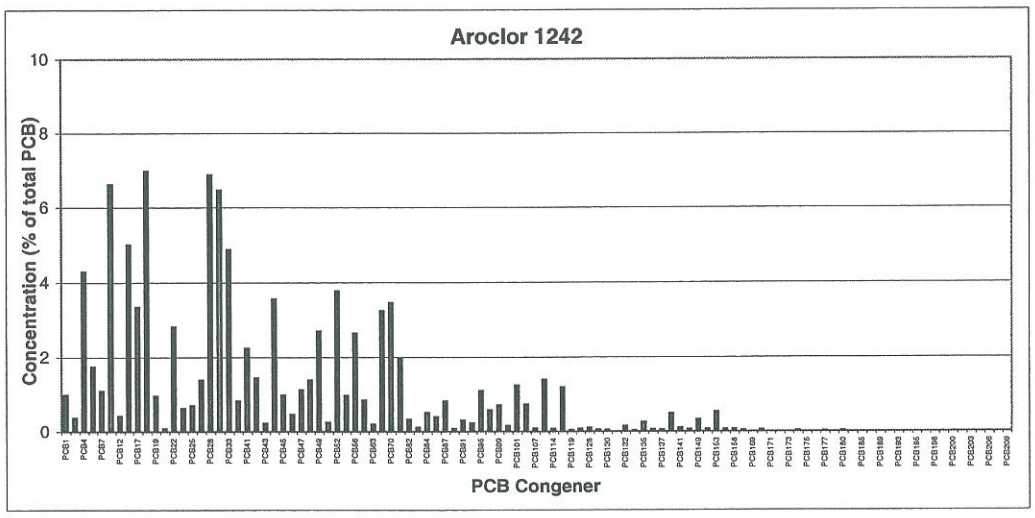

PCB Congener Composition
(Aroclor 1248/1260)
A-1248/1260
Composition (% of all 18 congeners)
0
5
10
15
20
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

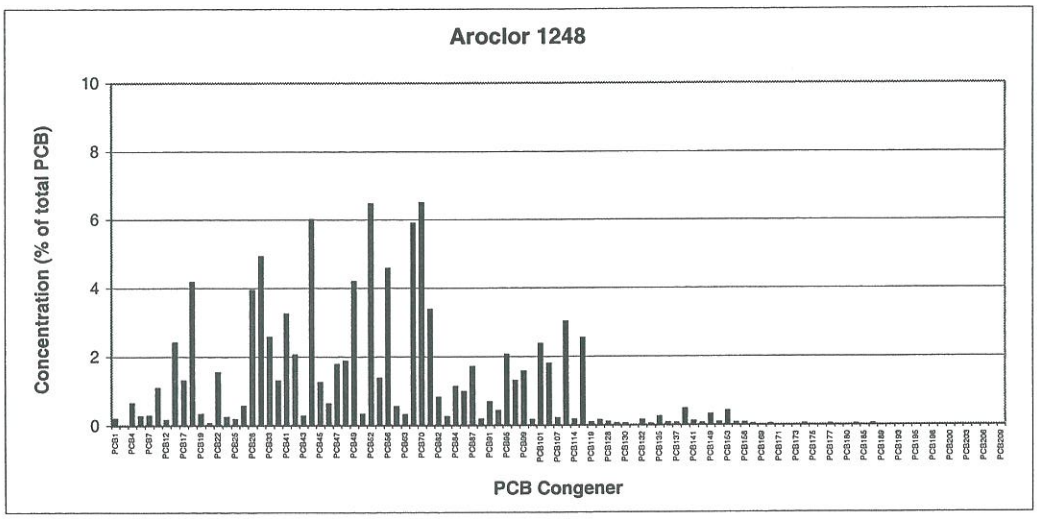

PCB Congener Composition
(Aroclor 1254/1260)
A-1254/1260
Composition (% of all 18 congeners)
0
5
10
15
20
25
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
Congener Name

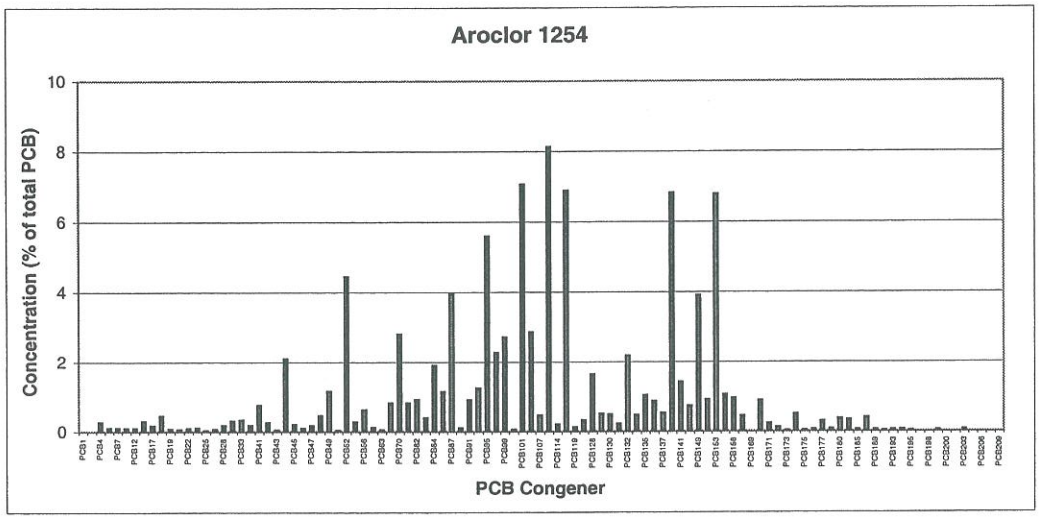

PCB Congener Composition
(Aroclor 1248/1254/1260)
Composition (% of all 18 congeners)
A-1248/1254/1260
0
4
8
12
16
20
PCB08/05
PCB18
PCB28
PCB52
PCB44
PCB66
PCB101/90
PCB118
PCB153
PCB105
PCB138/160/163
PCB187/182
PCB128
PCB180
PCB170/190
PCB195
PCB206
PCB209
Congener Name

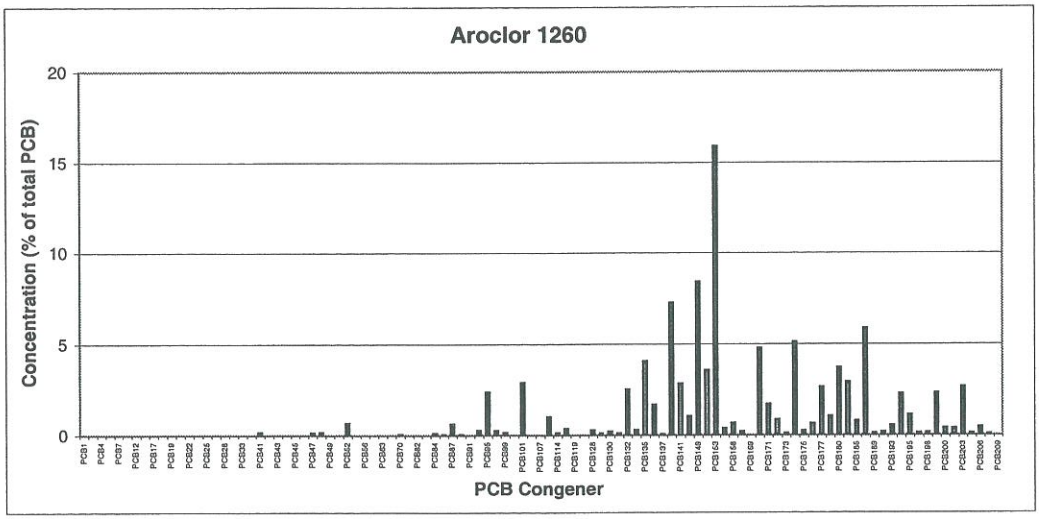

Aroclor 1221
Concentration (% of total PCB)
40
30
20
10
0
PCB Congener


Aroclor 1232
Concentration (% of total PCB)
20
15
10
5
0
PCB Congener

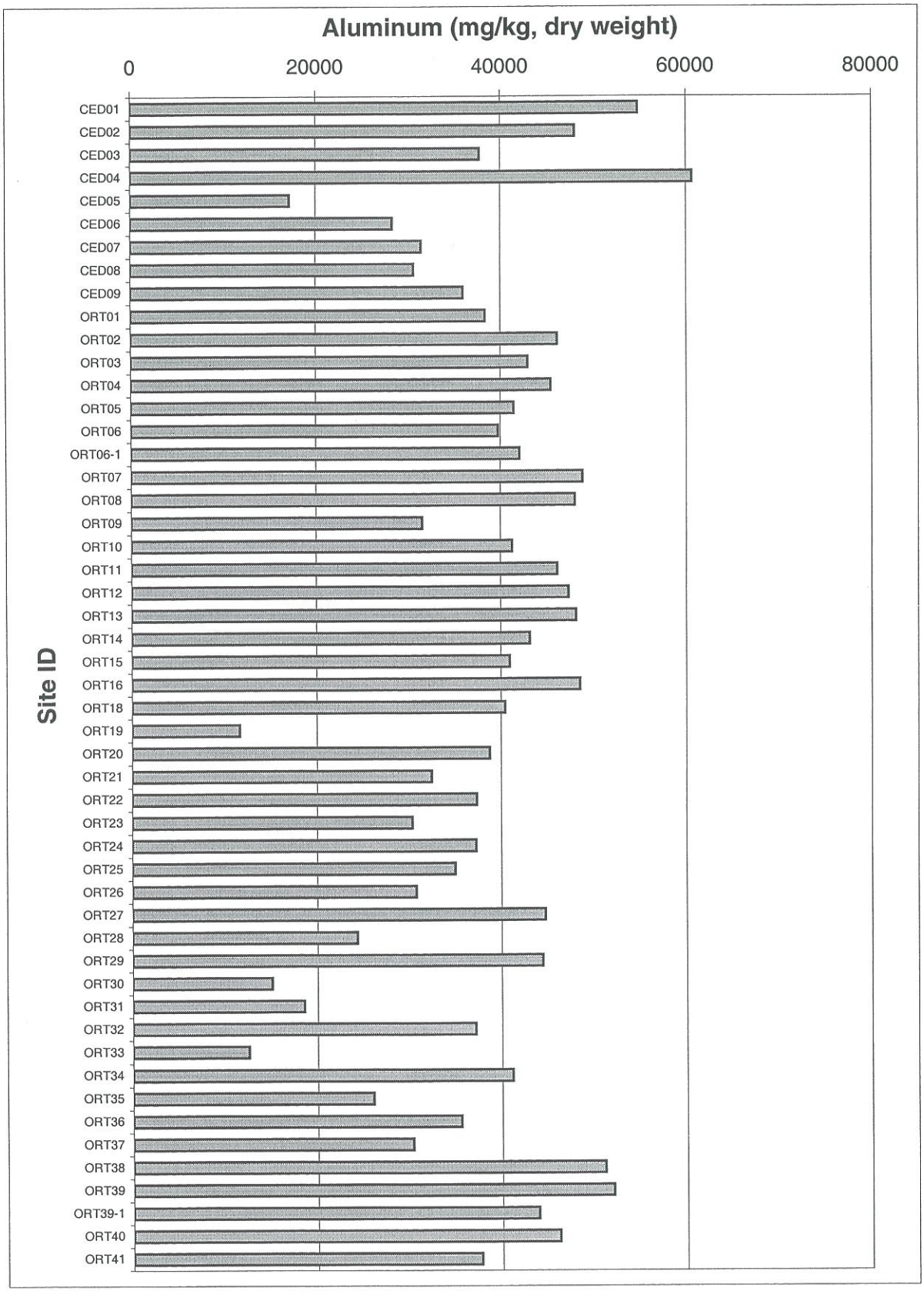

Aroclor 1242
Concentration (% of total PCB)
10
8
6
4
2
0
PCB Congener

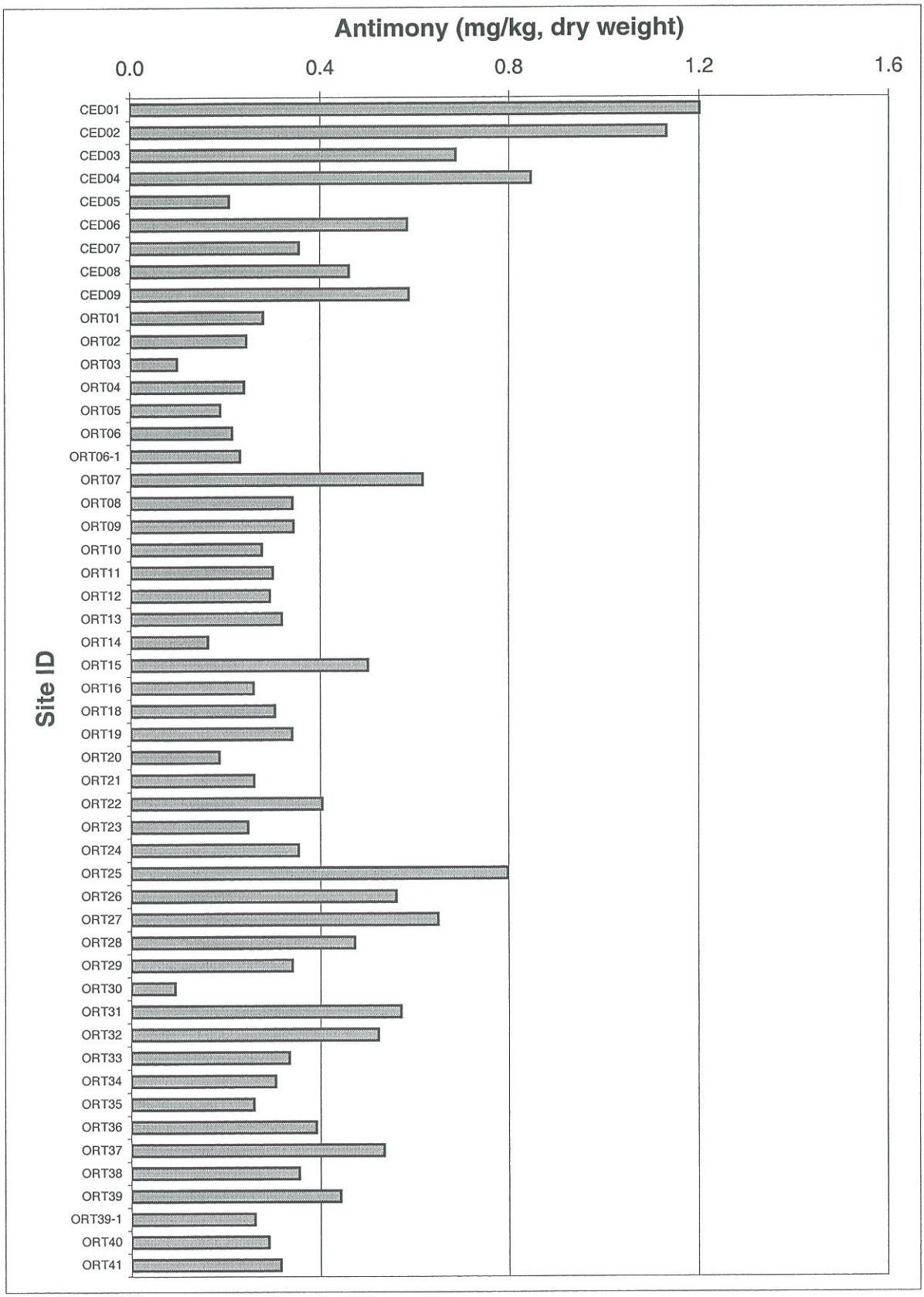

Aroclor 1248
Concentration (% of total PCB)
PCB Congener

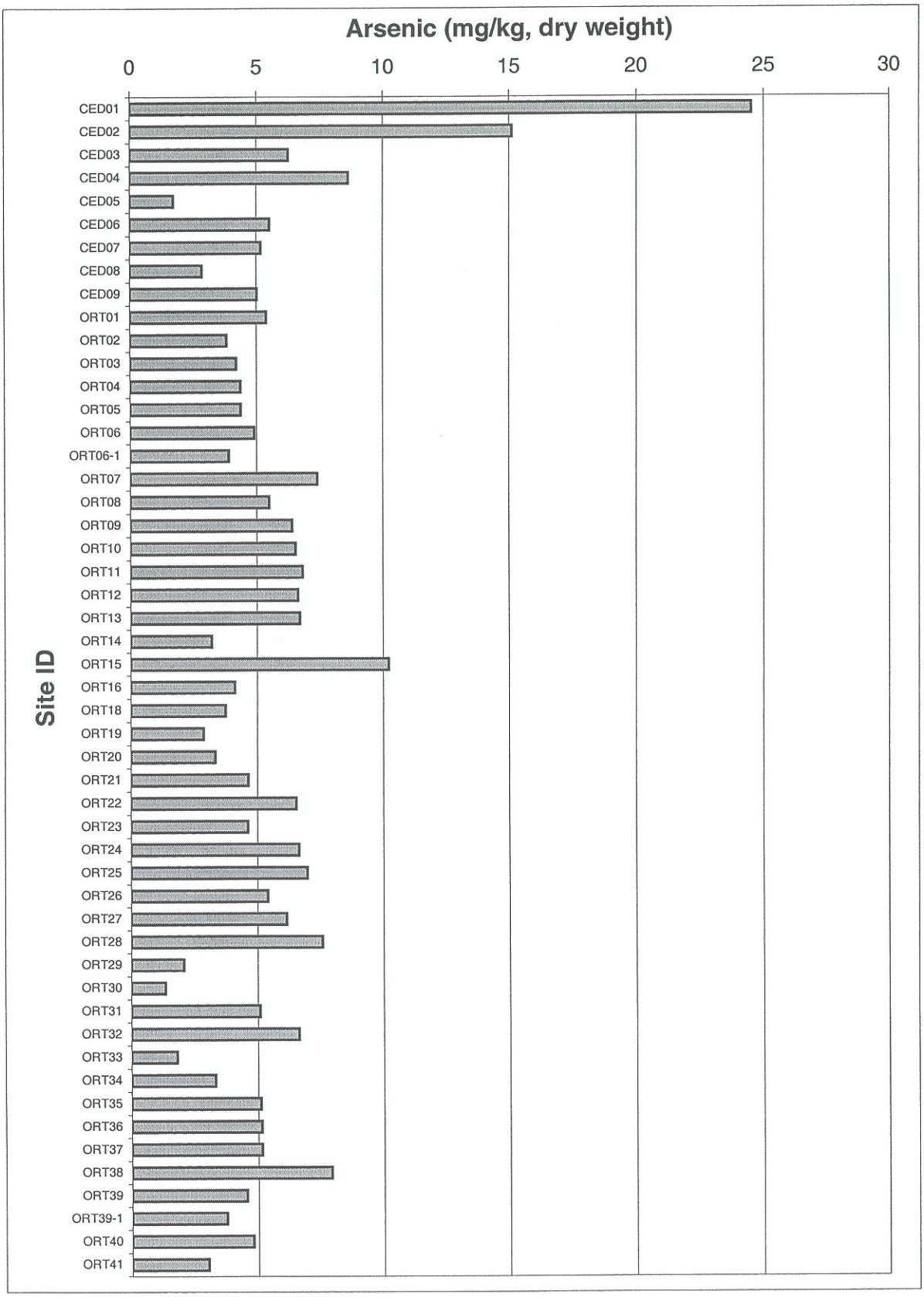

Aroclor 1254
Concentration (% of total PCB)
PCB Congener


Aroclor 1260
Concentration (% of total PCB)
PCB Congener

Appendix L. Charts with Surface Sediment Metals Concentration Data


Aluminum (mg/kg, dry weight)
0
20000
40000
60000
80000
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
ORT21
ORT22
ORT23
ORT24
ORT25
ORT26
ORT27
ORT28
ORT29
ORT30
ORT31
ORT32
ORT33
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT39-1
ORT40
ORT41


Antimony (mg/kg, dry weight)
0.0
0.4
0.8
1.2
1.6
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
ORT21
ORT22
ORT23
ORT24
ORT25
ORT26
ORT27
ORT28
ORT29
ORT30
ORT31
ORT32
ORT33
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT39-1
ORT40
ORT41


Arsenic (mg/kg, dry weight)
0
5
10
15
20
25
30
Site ID
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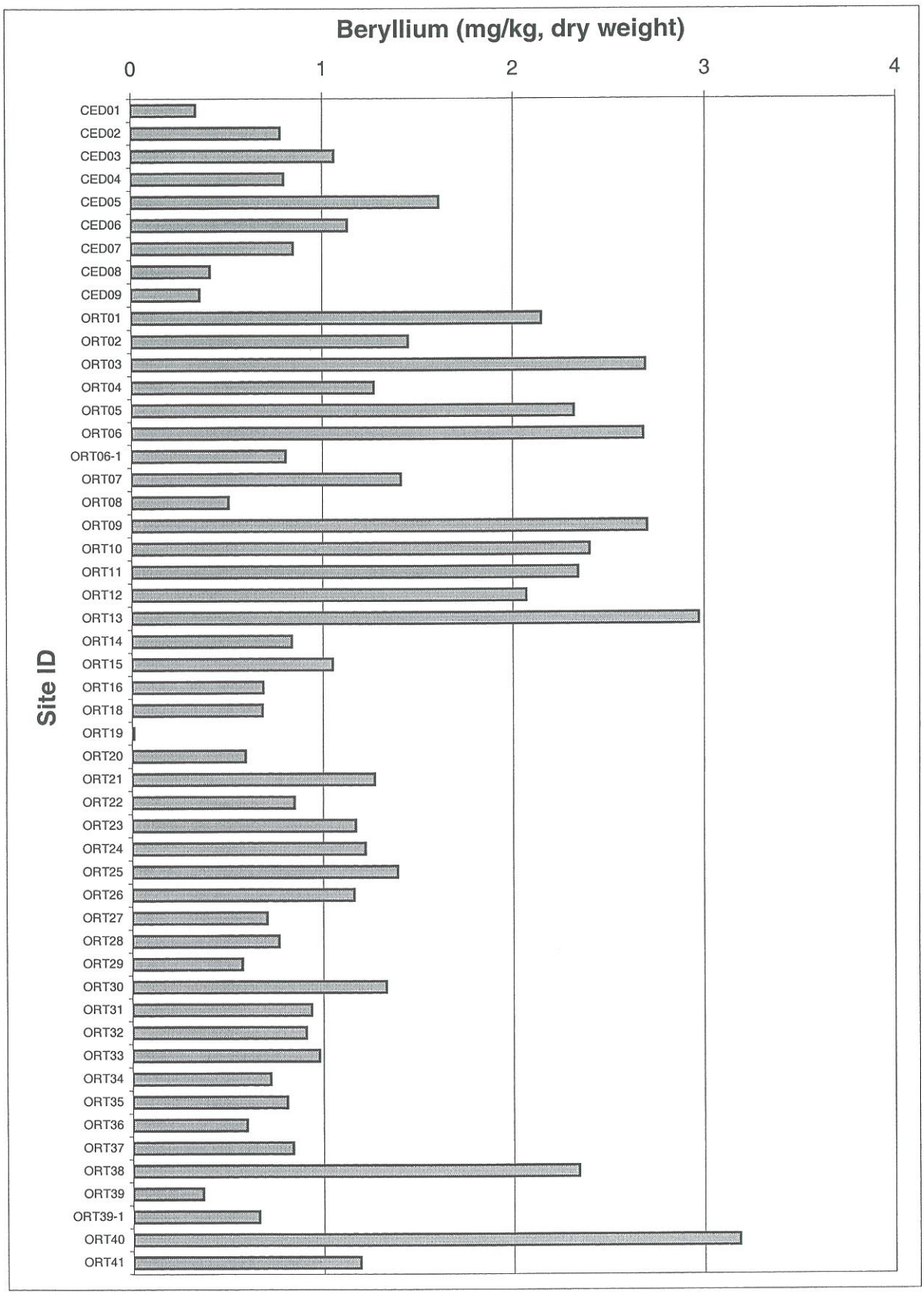
Beryllium (mg/kg, dry weight)
0
1
2
3
4
Site ID
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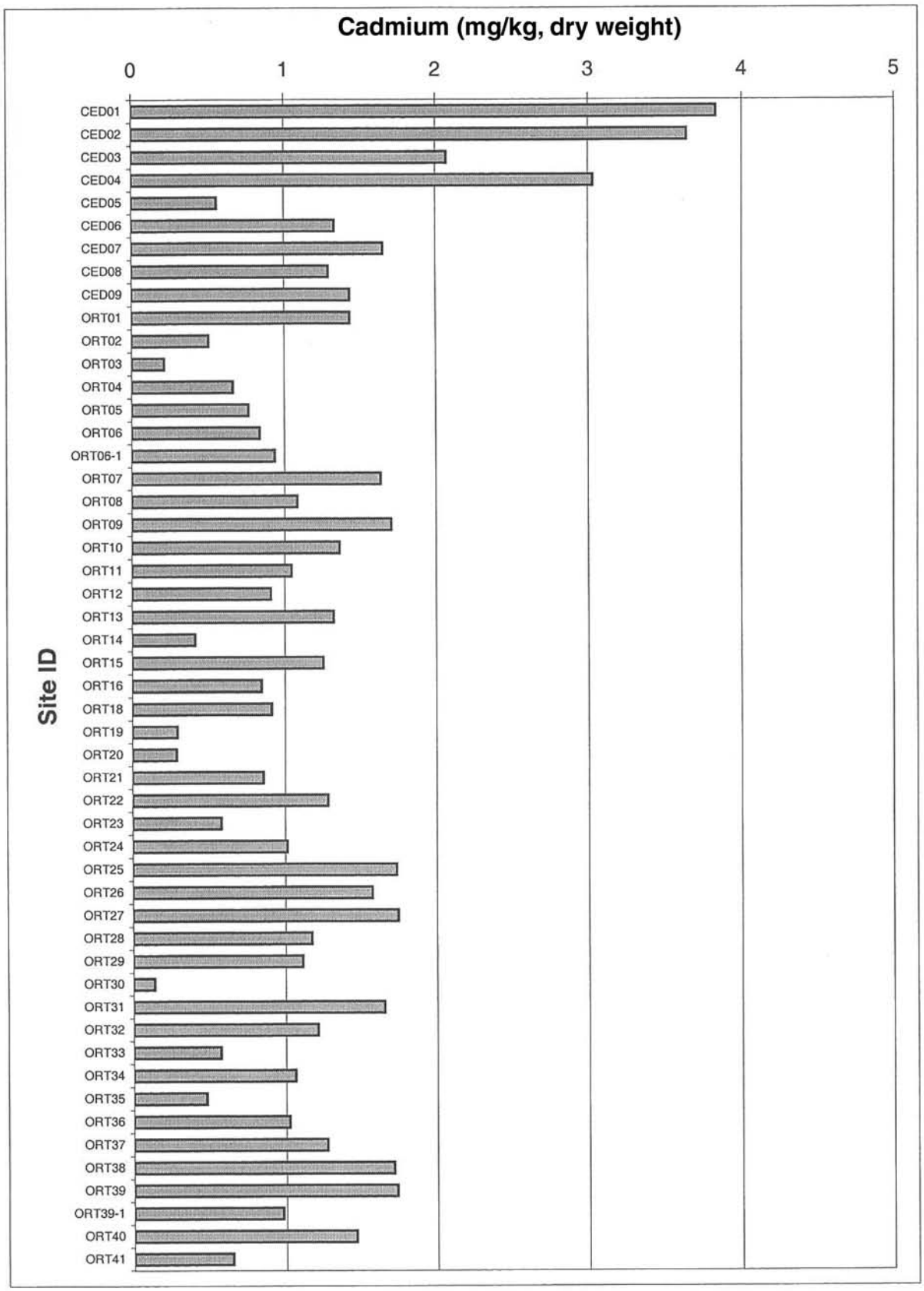
Cadmium (mg/kg, dry weight)
0
1
2
3
4
5
Site ID
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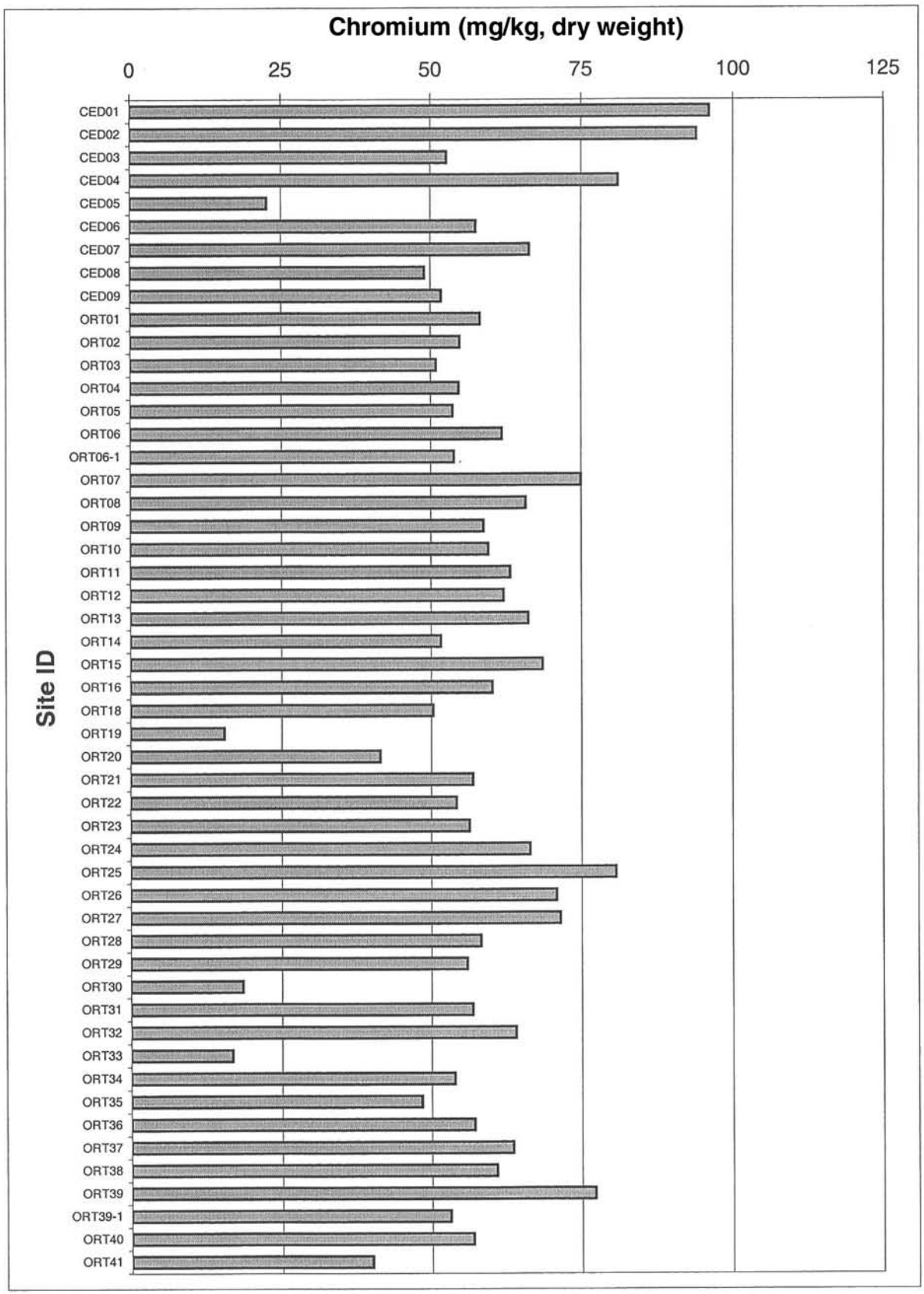
Chromium (mg/kg, dry weight)
0
25
50
75
100
125
Site ID
CED01
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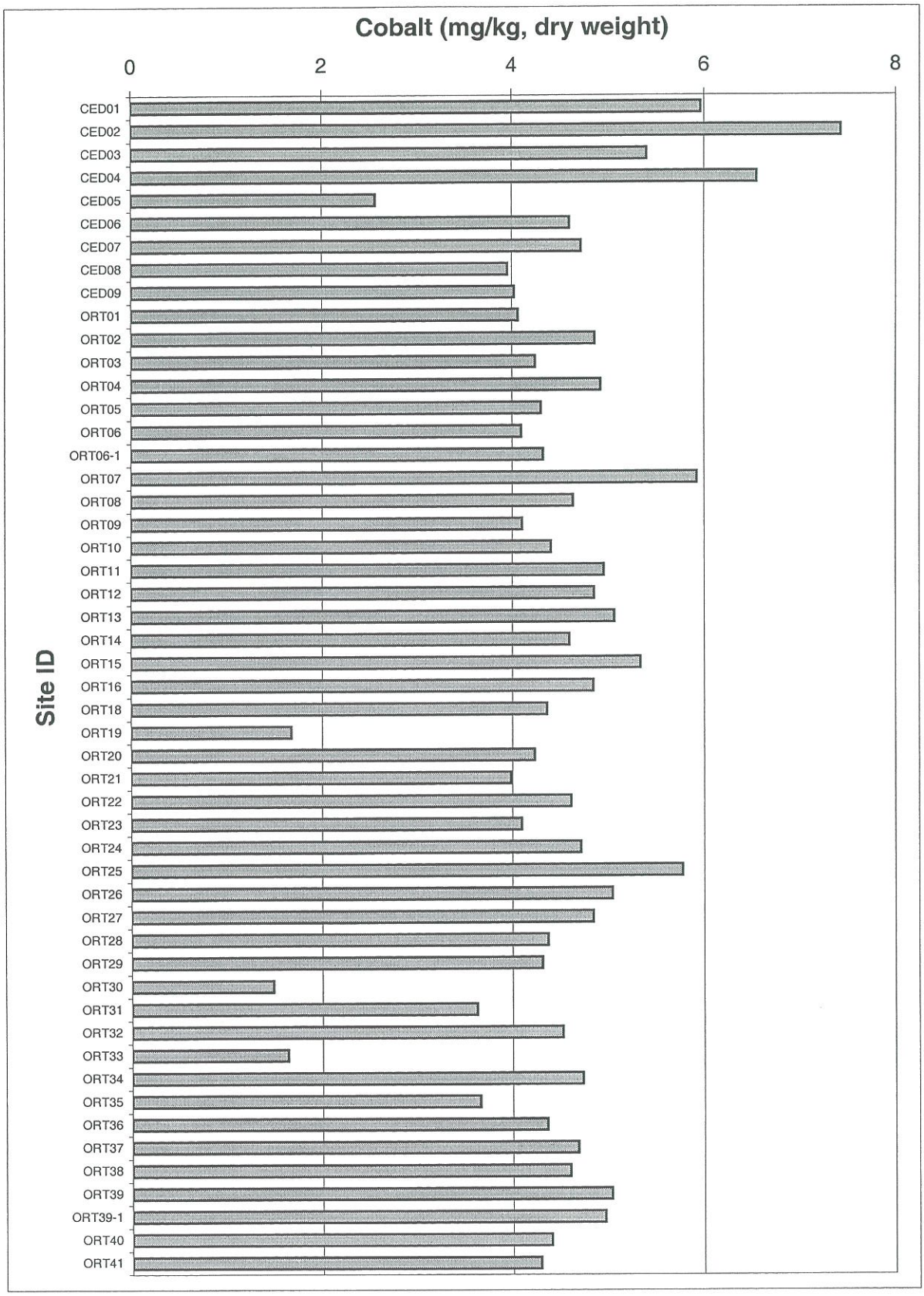
Cobalt (mg/kg, dry weight)
0
2
4
6
8
Site ID
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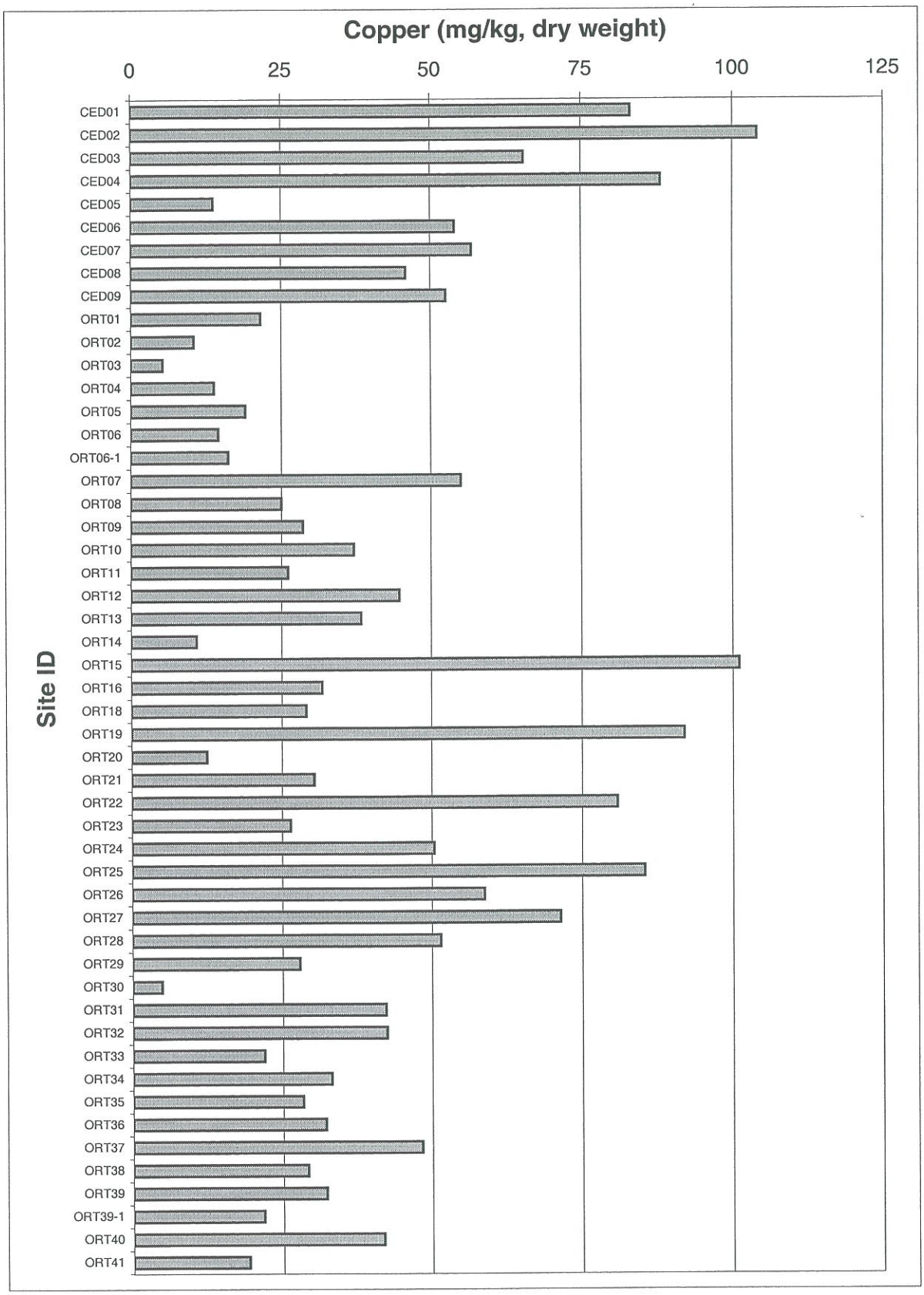
Copper (mg/kg, dry weight)
0
25
50
75
100
125
Site ID
CED01
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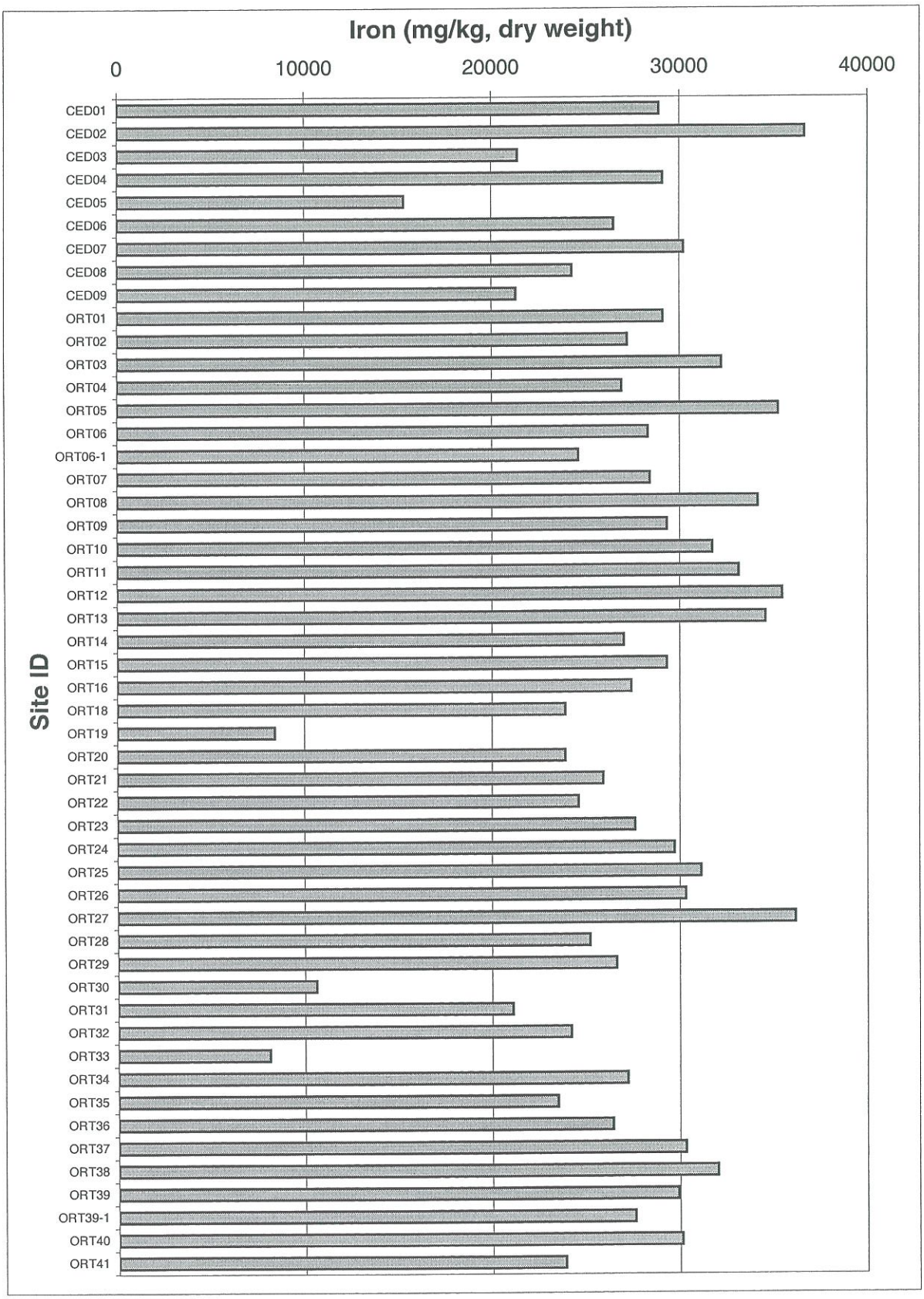
Iron (mg/kg, dry weight)
0
10000
20000
30000
40000
Site ID
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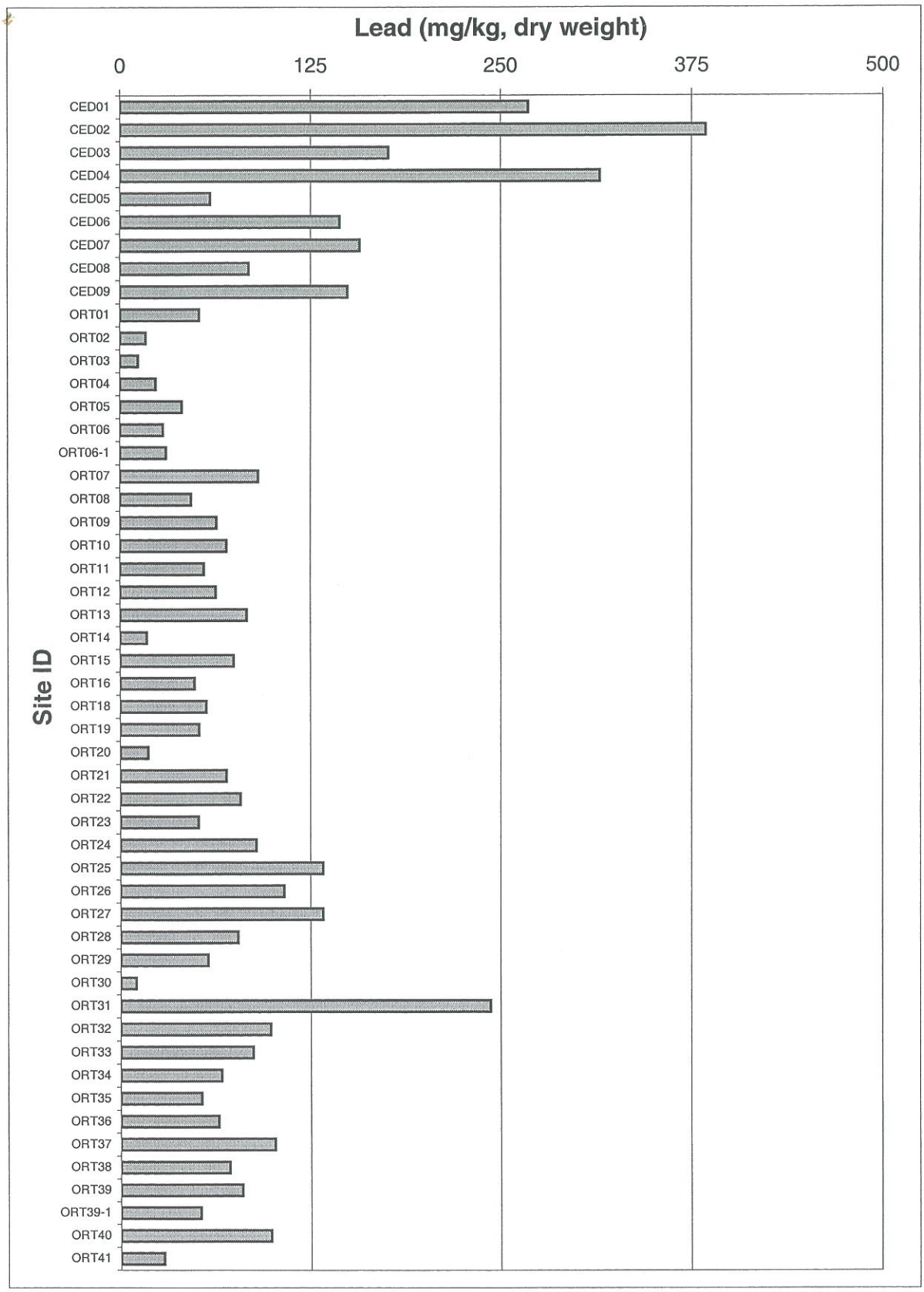
Lead (mg/kg, dry weight)
0
125
250
375
500
Site ID
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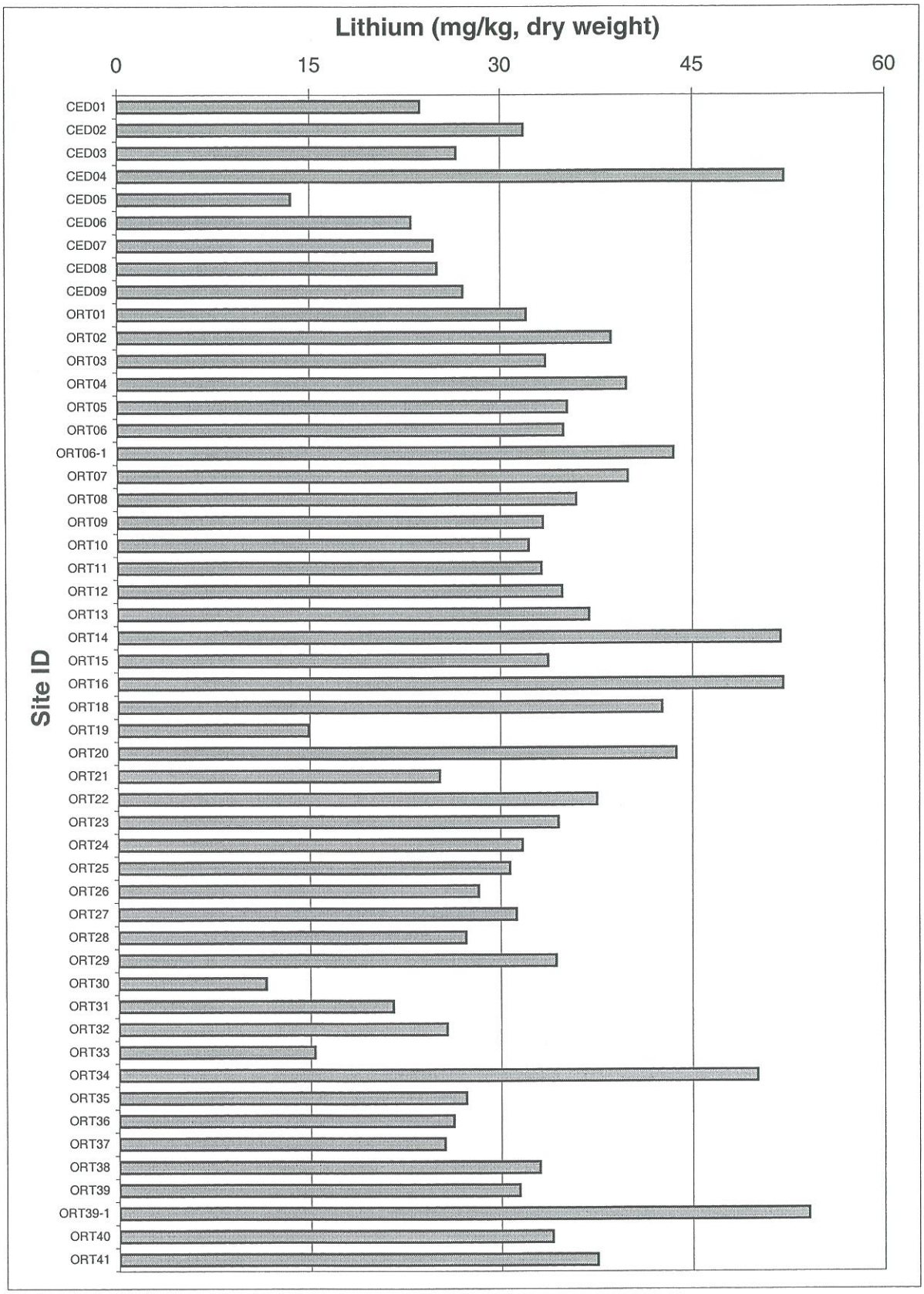
Lithium (mg/kg, dry weight)
0
15
30
45
60
Site ID
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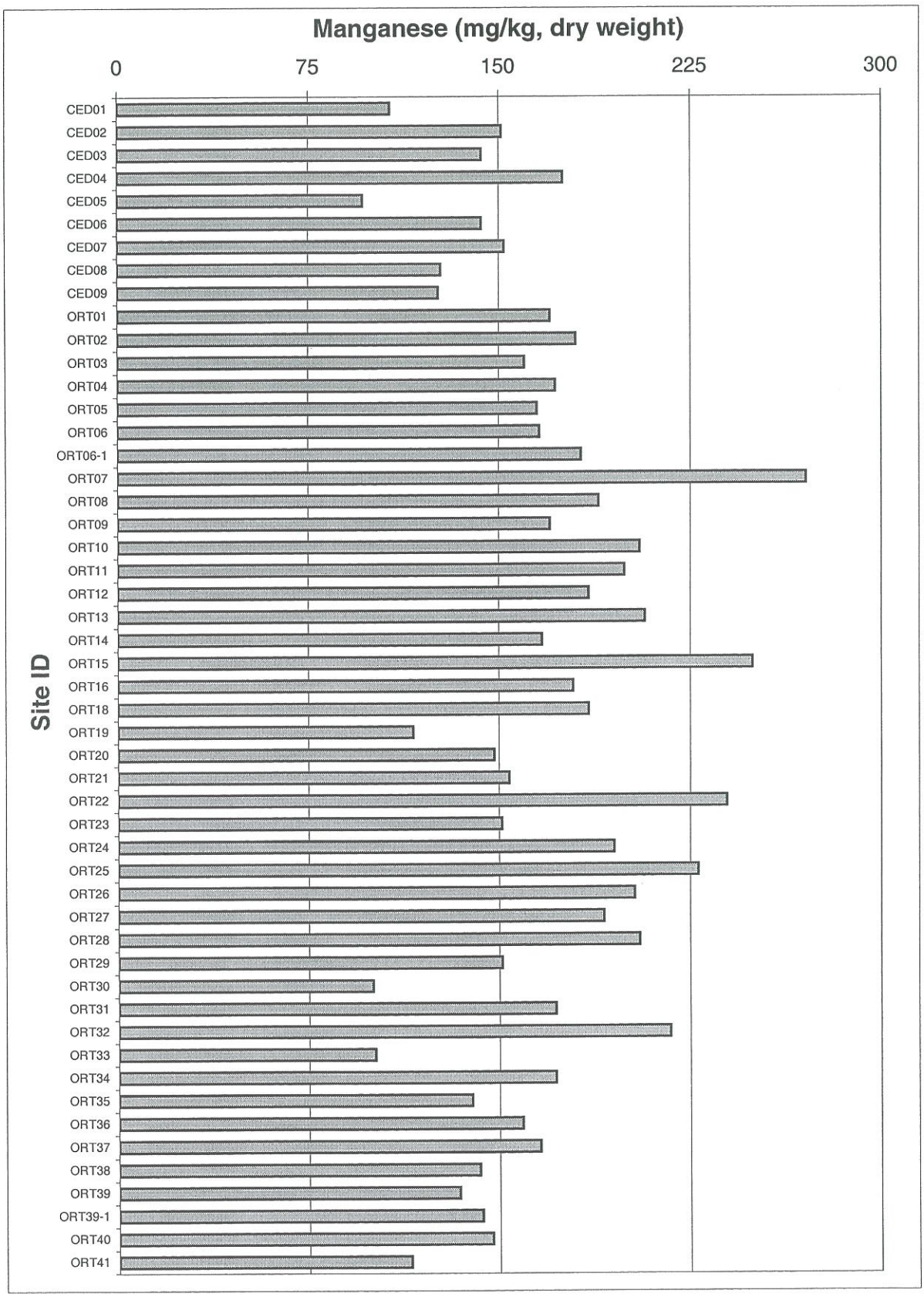
Manganese (mg/kg, dry weight)
0
75
150
225
300
Site ID
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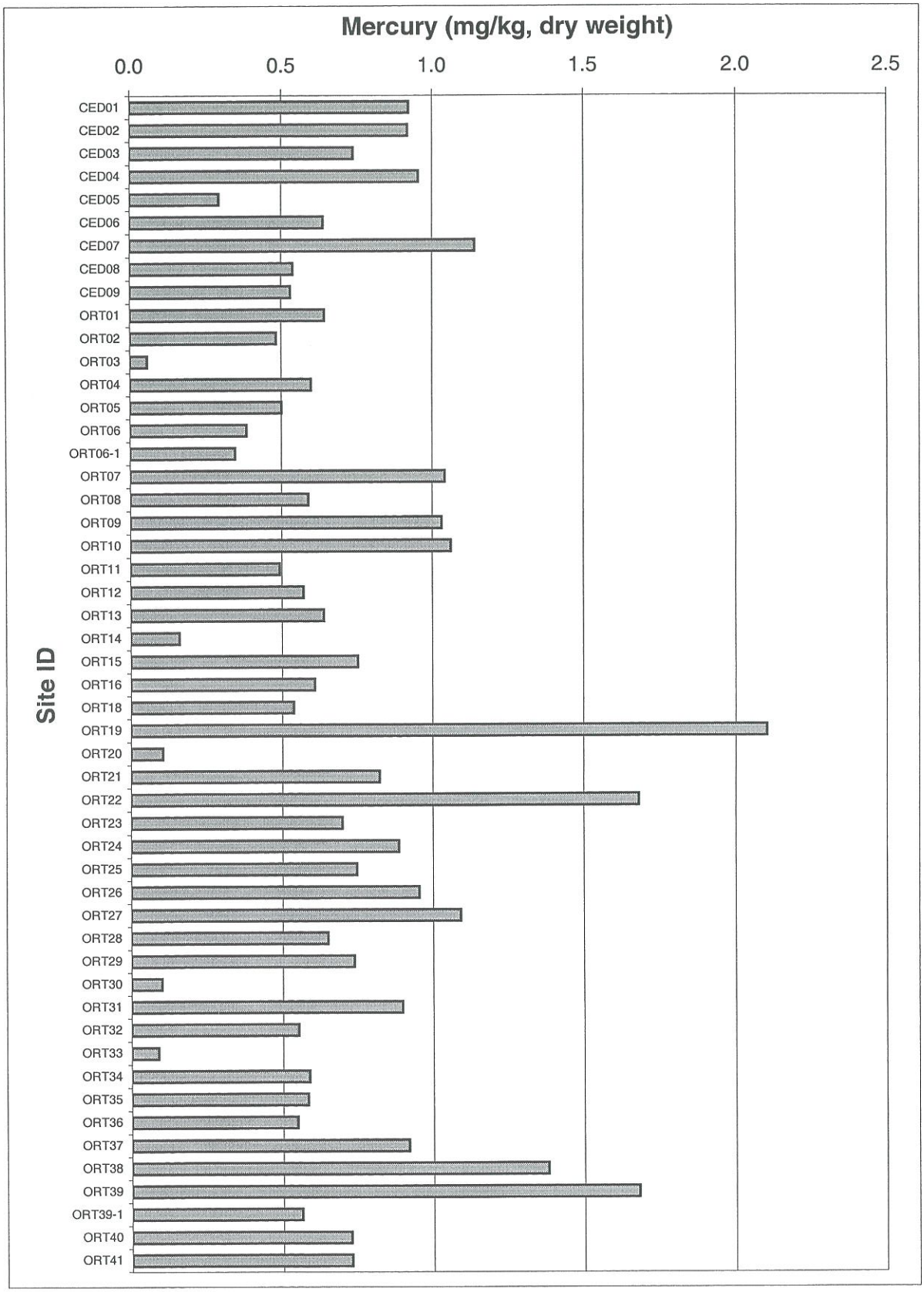
Mercury (mg/kg, dry weight)
0.0
0.5
1.0
1.5
2.0
2.5
Site ID
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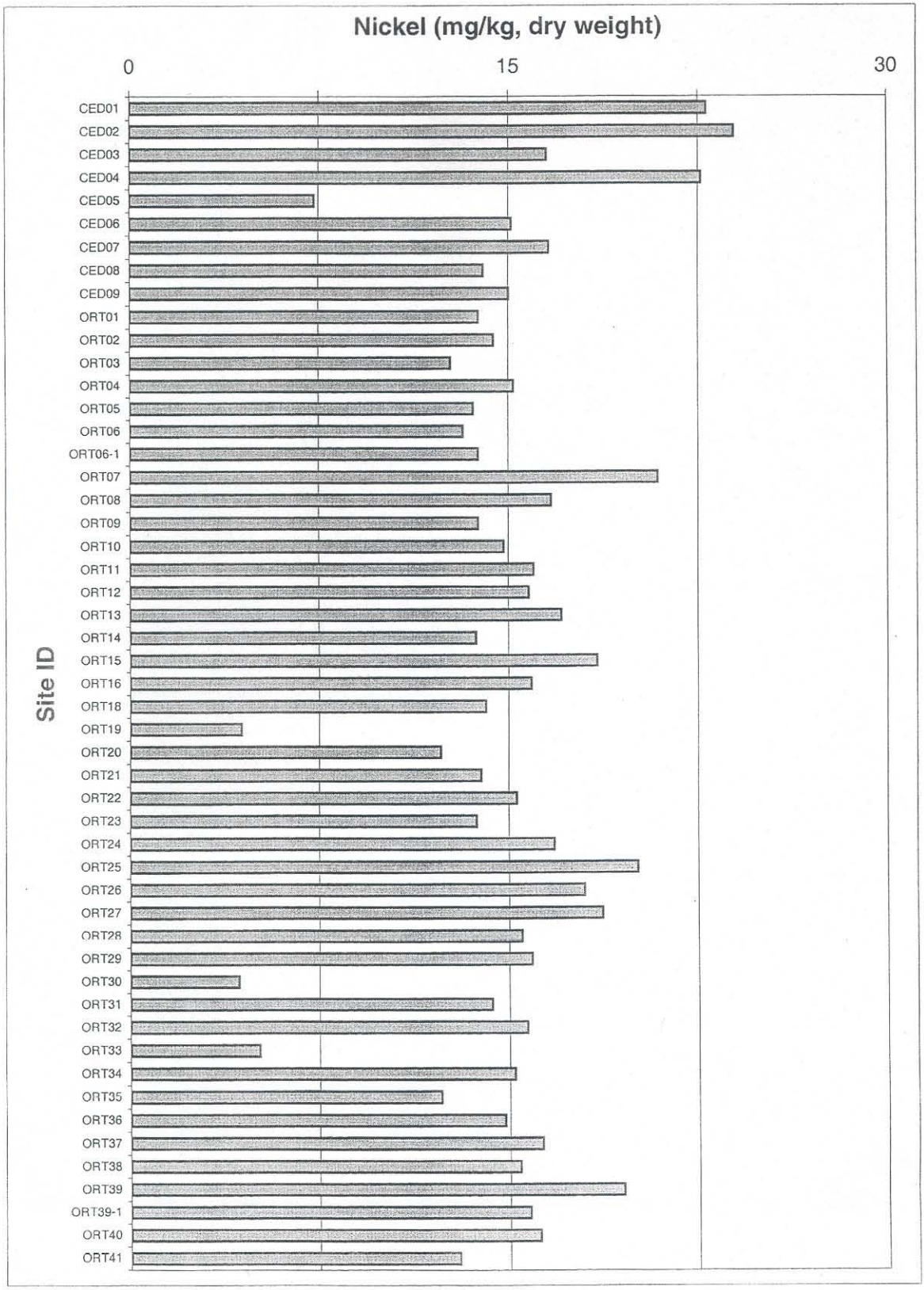
Nickel (mg/kg, dry weight)
0
15
30
Site ID
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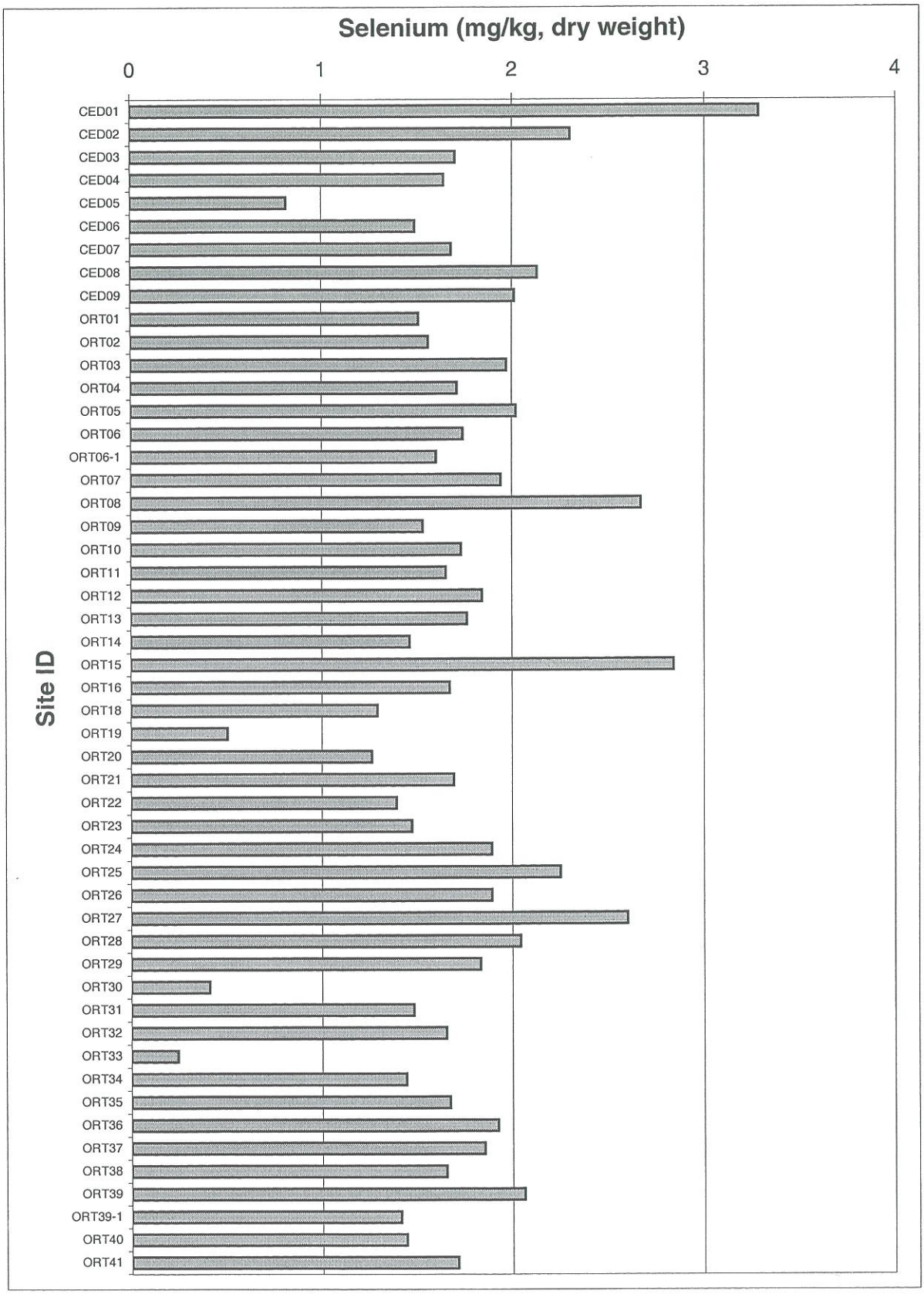
Selenium (mg/kg, dry weight)
0
1
2
3
4
Site ID
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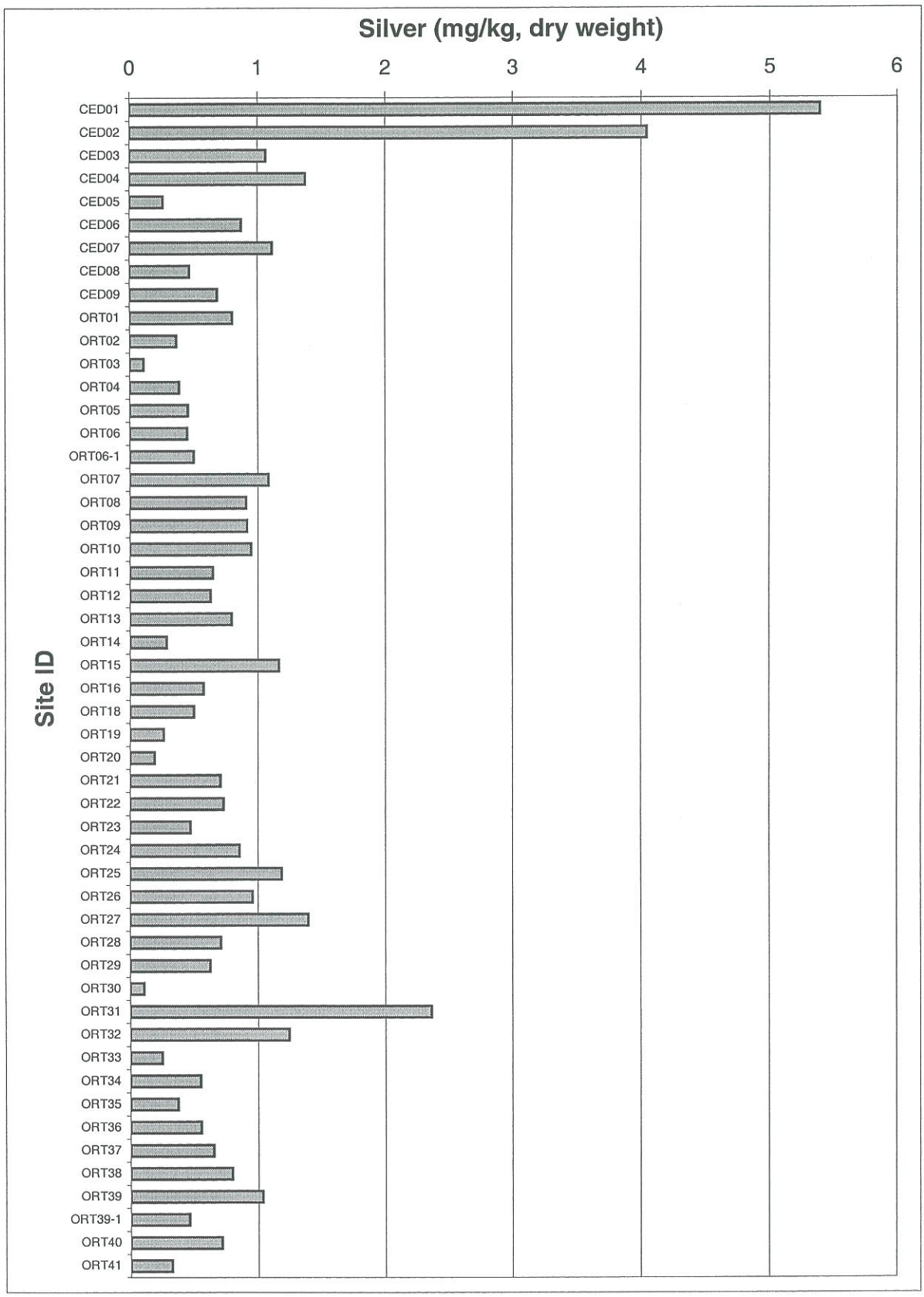
Silver (mg/kg, dry weight)
0
1
2
3
4
5
6
Site ID
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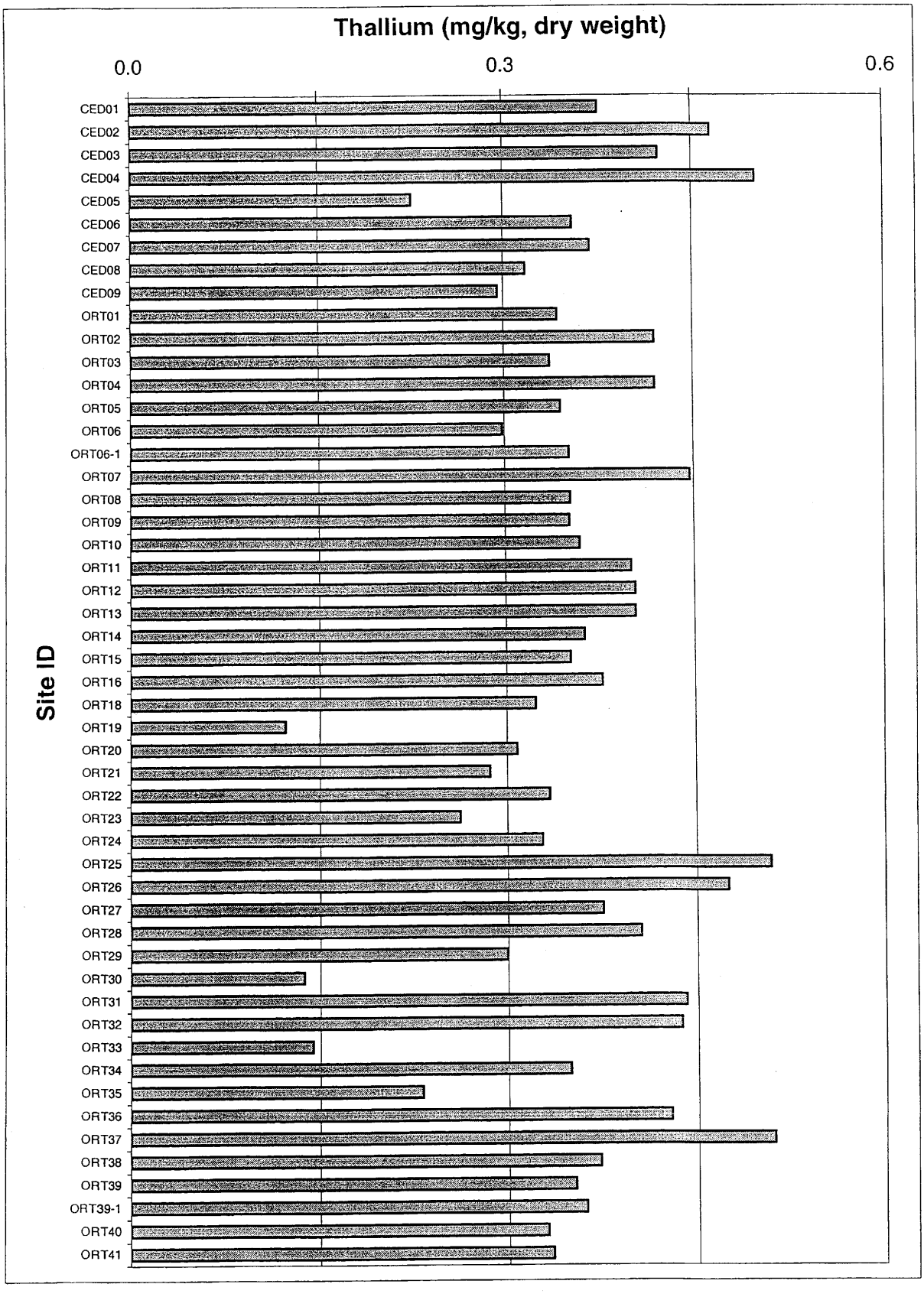
Thallium (mg/kg, dry weight)
0.0
0.3
0.6
Site ID
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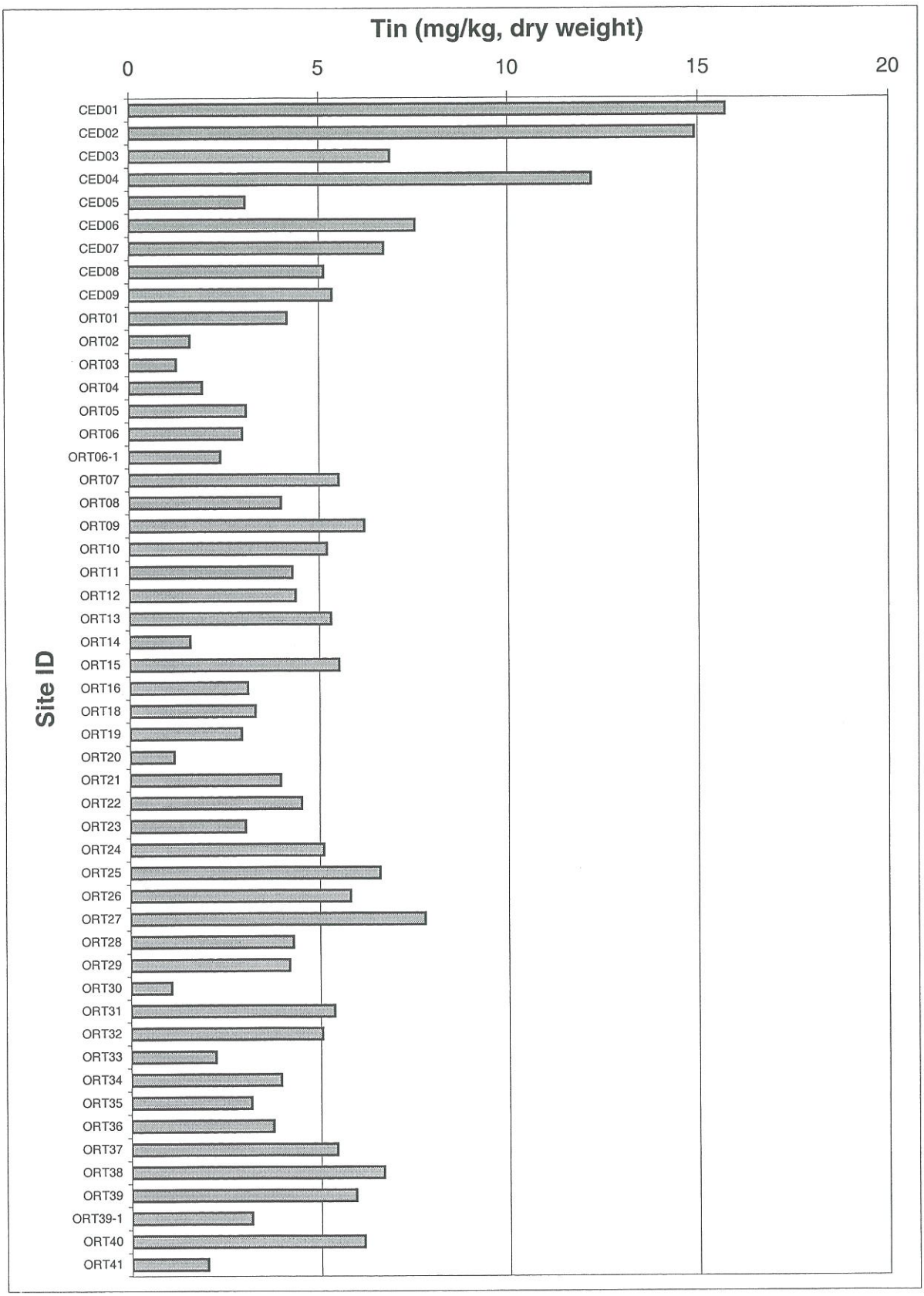
Tin (mg/kg, dry weight)
0
5
10
15
20
Site ID
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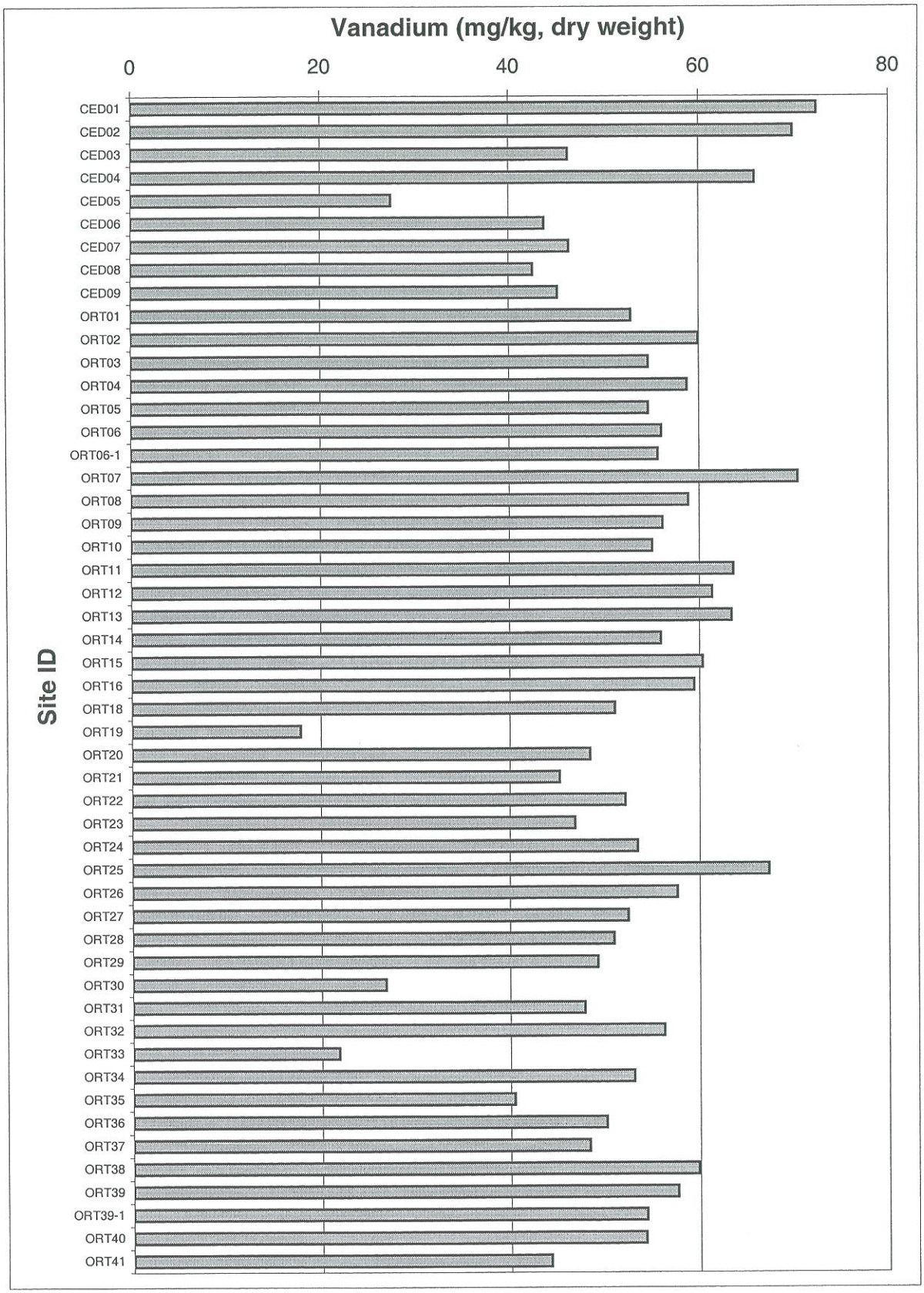
Vanadium (mg/kg, dry weight)
0
20
40
60
80
Site ID
CED01
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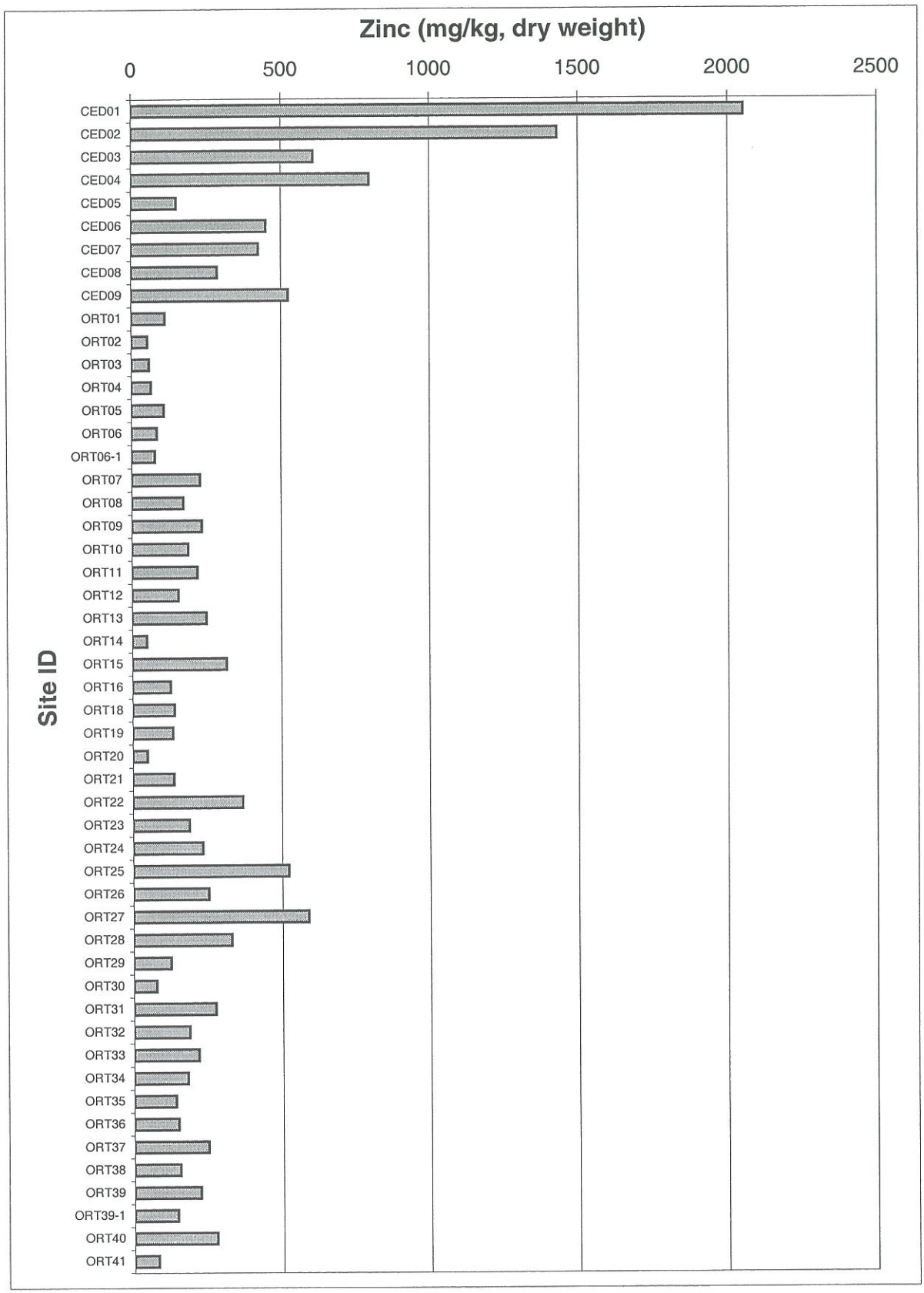
Zinc (mg/kg, dry weight)
0
500
1000
1500
2000
2500
Site ID
CED01
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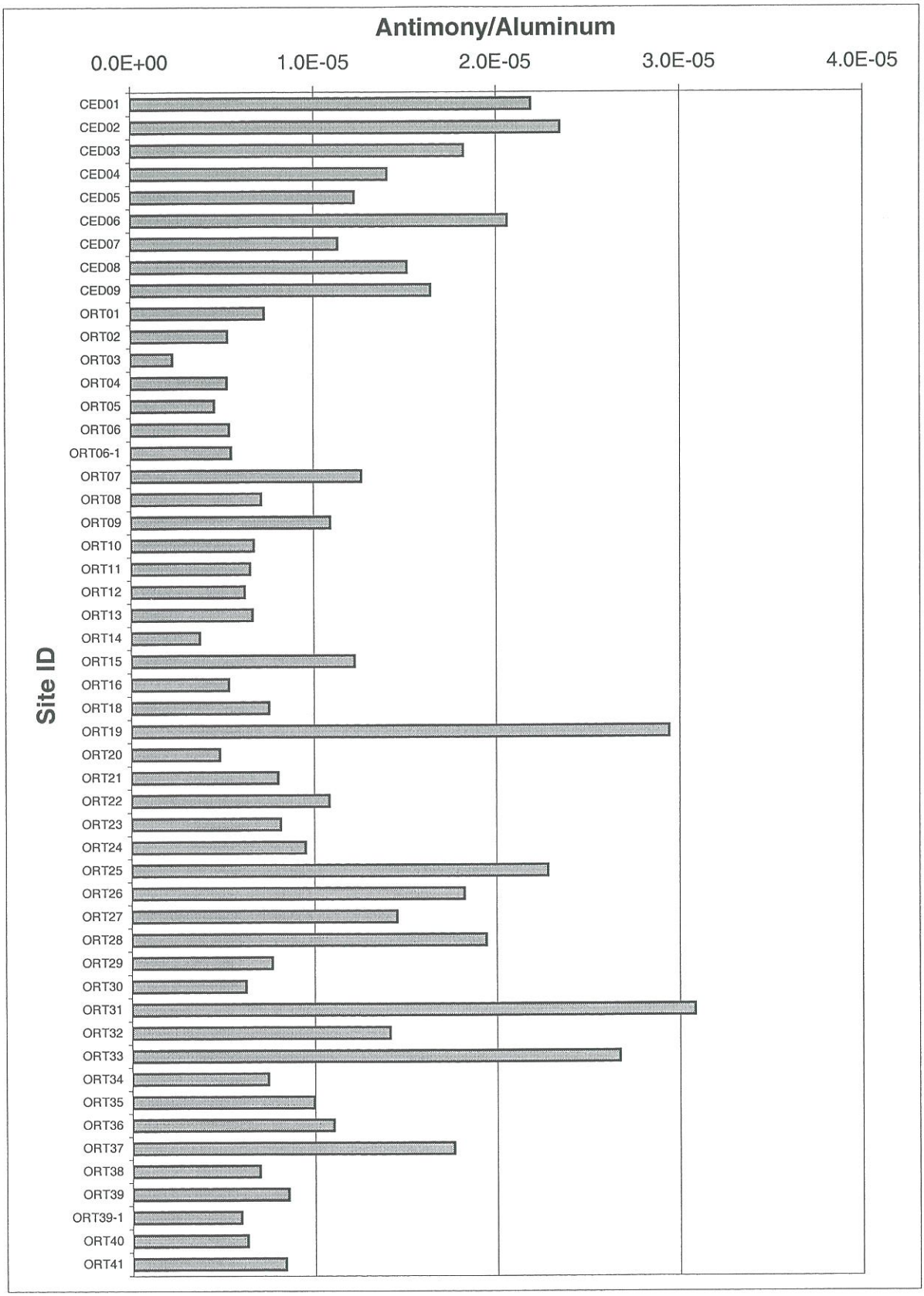
Antimony/Aluminum
0.0E+00
1.0E-05
2.0E-05
3.0E-05
4.0E-05
Site ID
CED01
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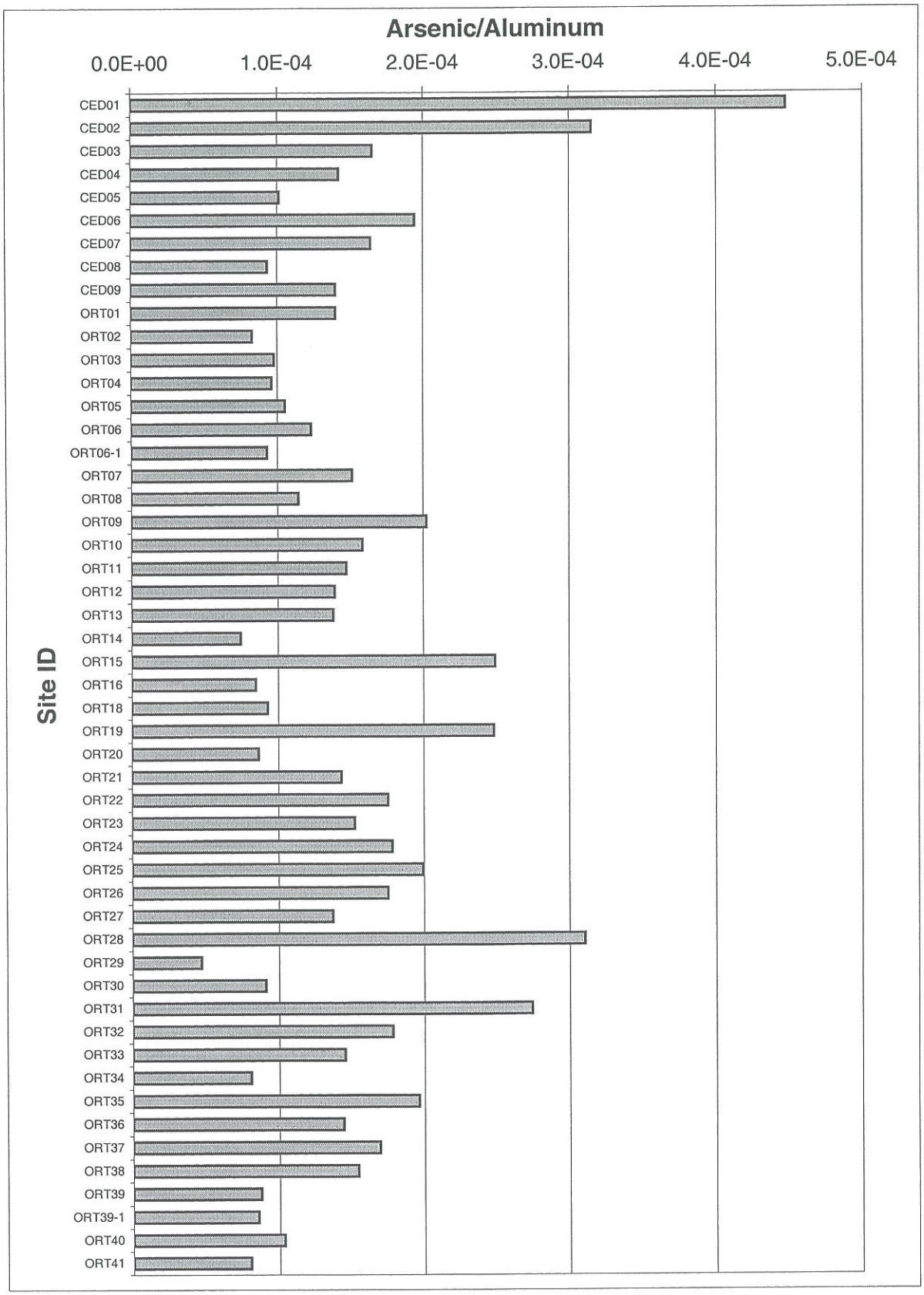
Arsenic/Aluminum
0.0E+00
1.0E-04
2.0E-04
3.0E-04
4.0E-04
5.0E-04
Site ID
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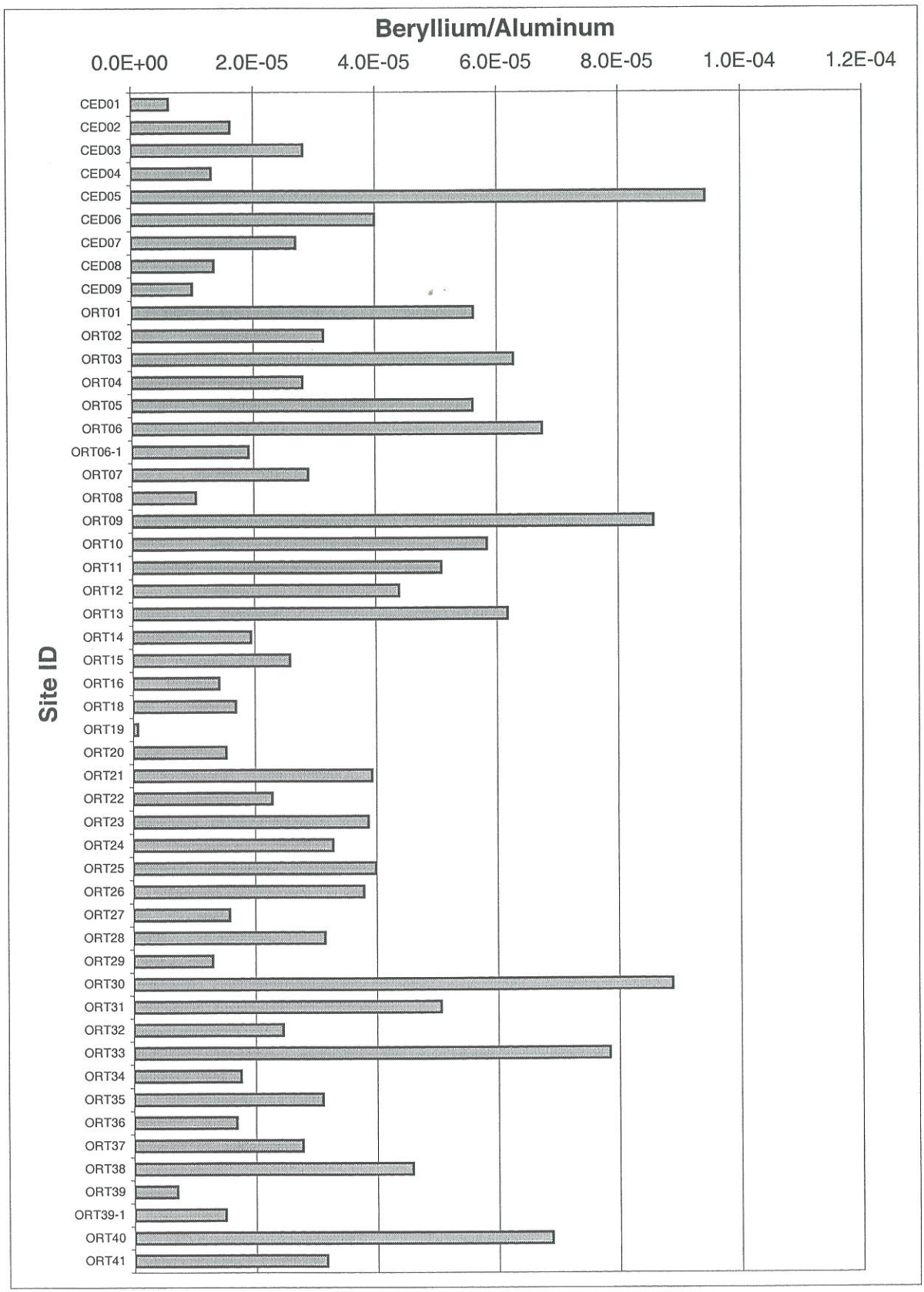
Beryllium/Aluminum
0.0E+00
2.0E-05
4.0E-05
6.0E-05
8.0E-05
1.0E-04
1.2E-04
Site ID
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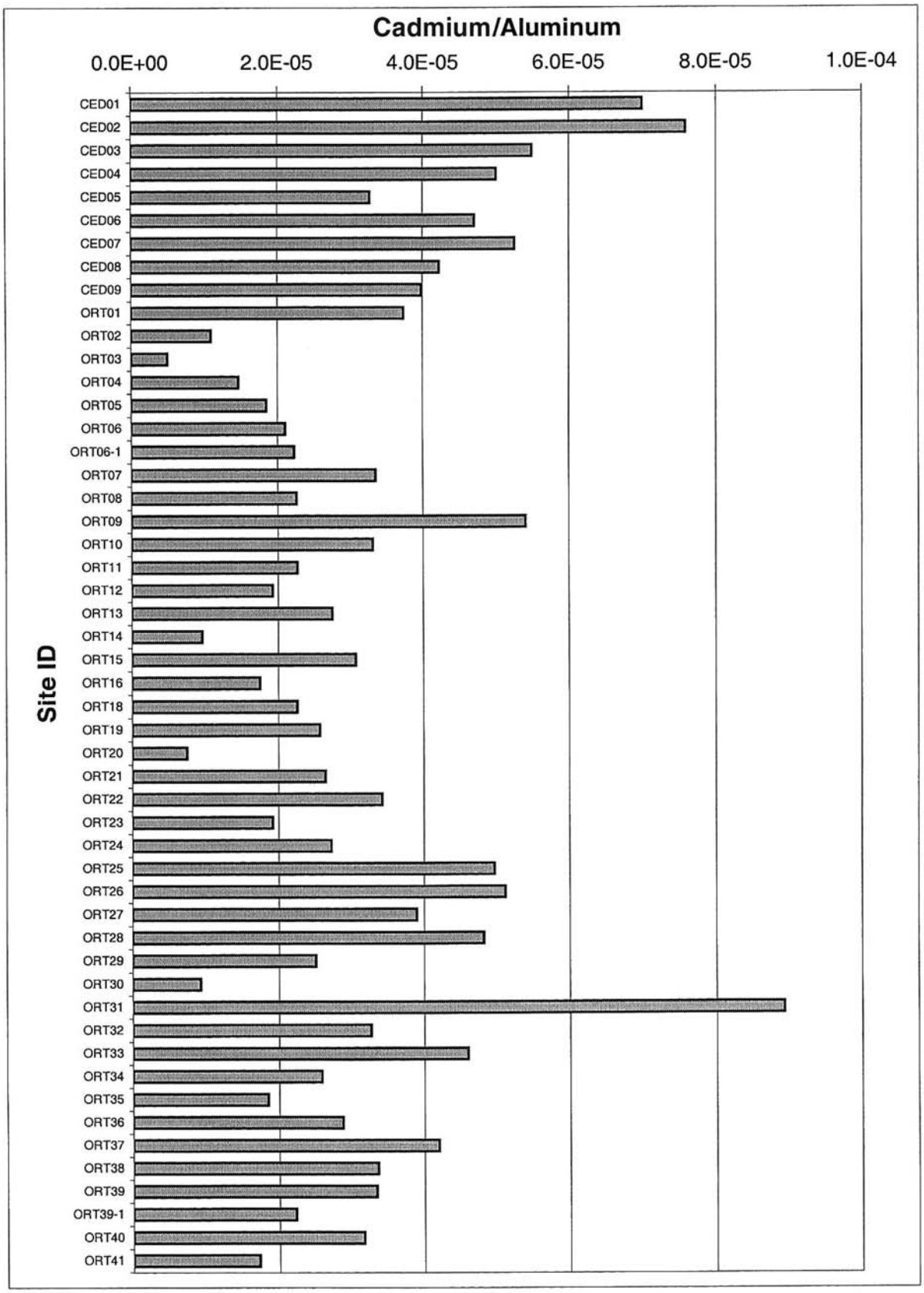
Cadmium/Aluminum
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6.0E-05
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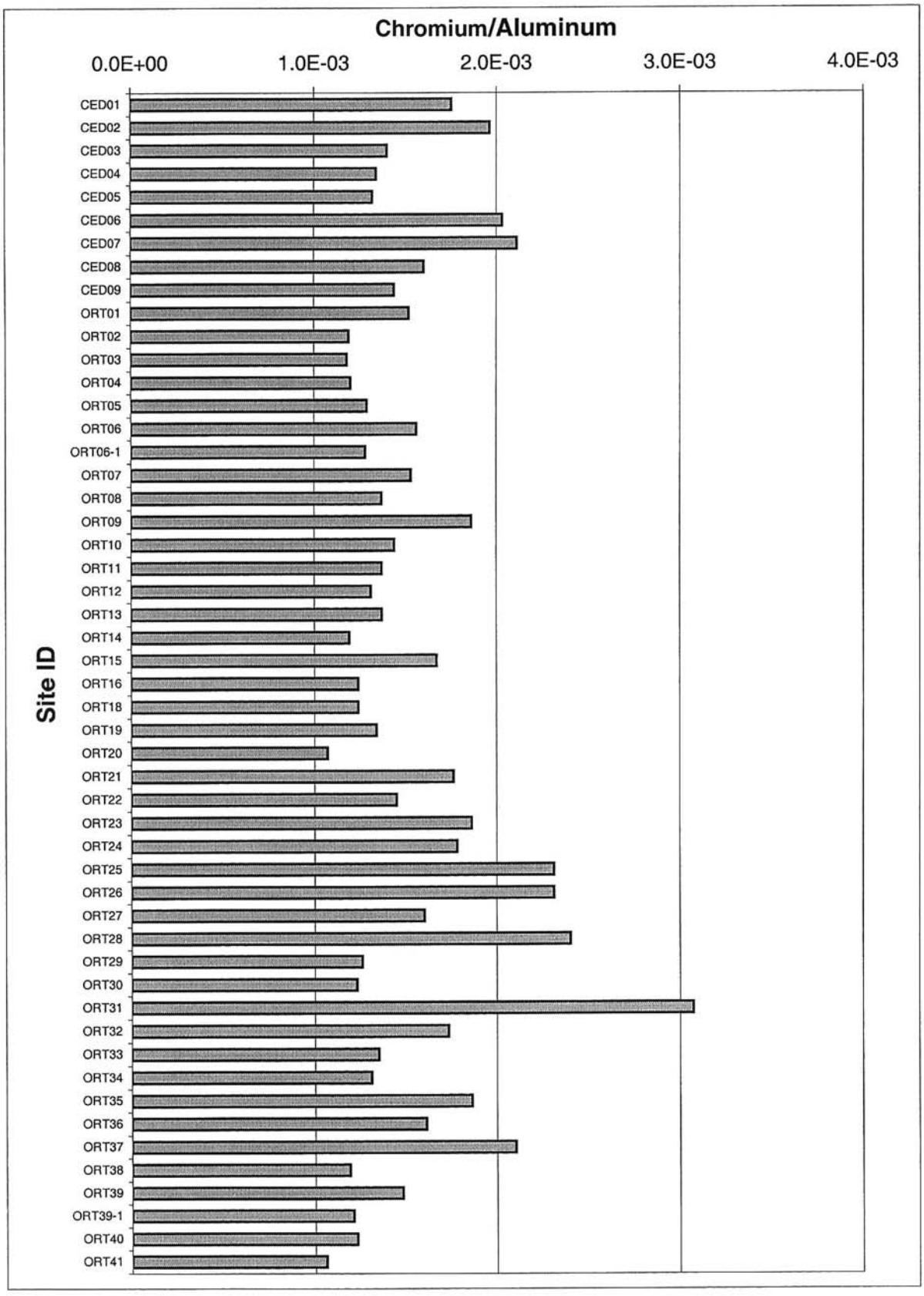
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4.0E-03
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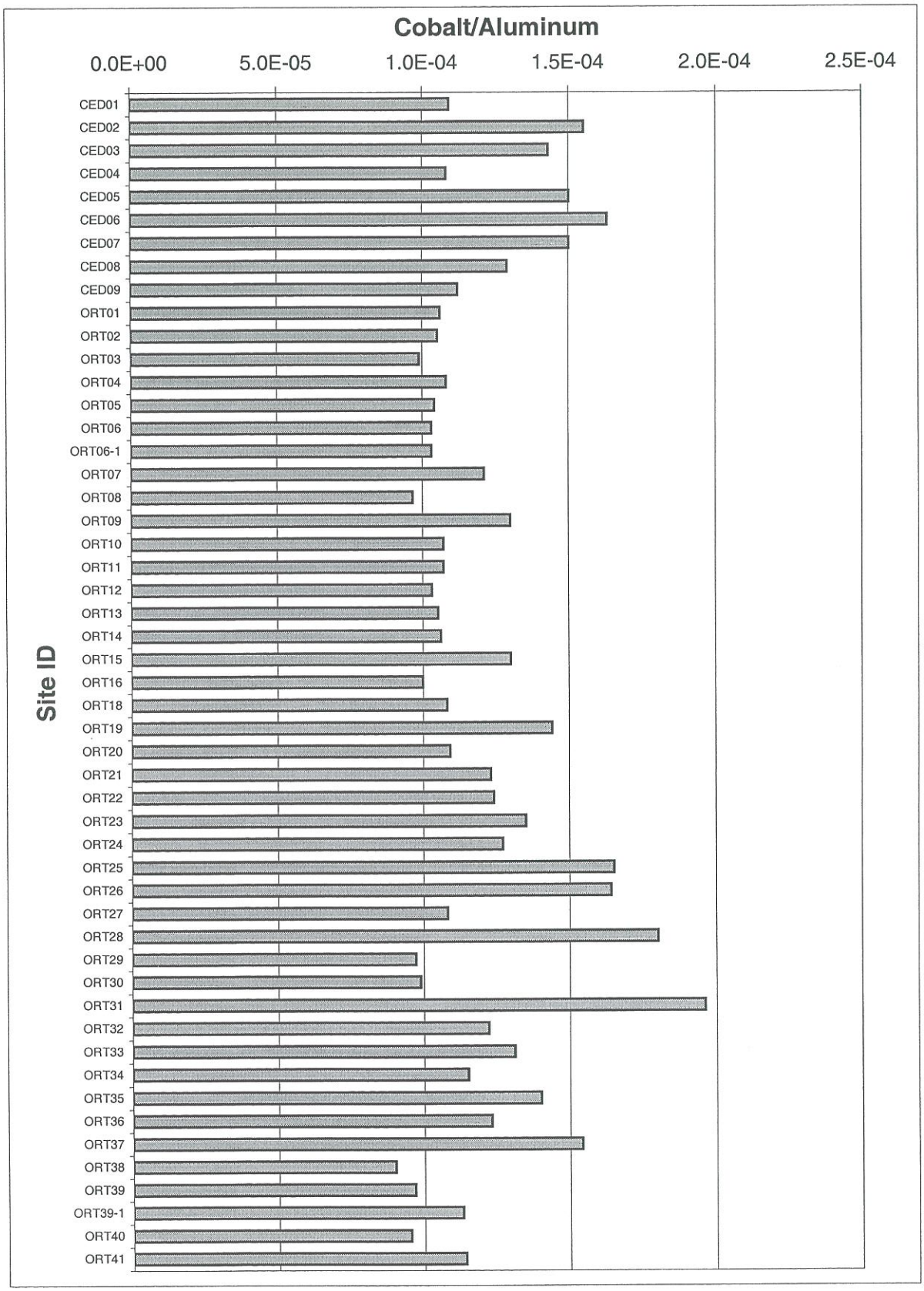
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2.5E-04
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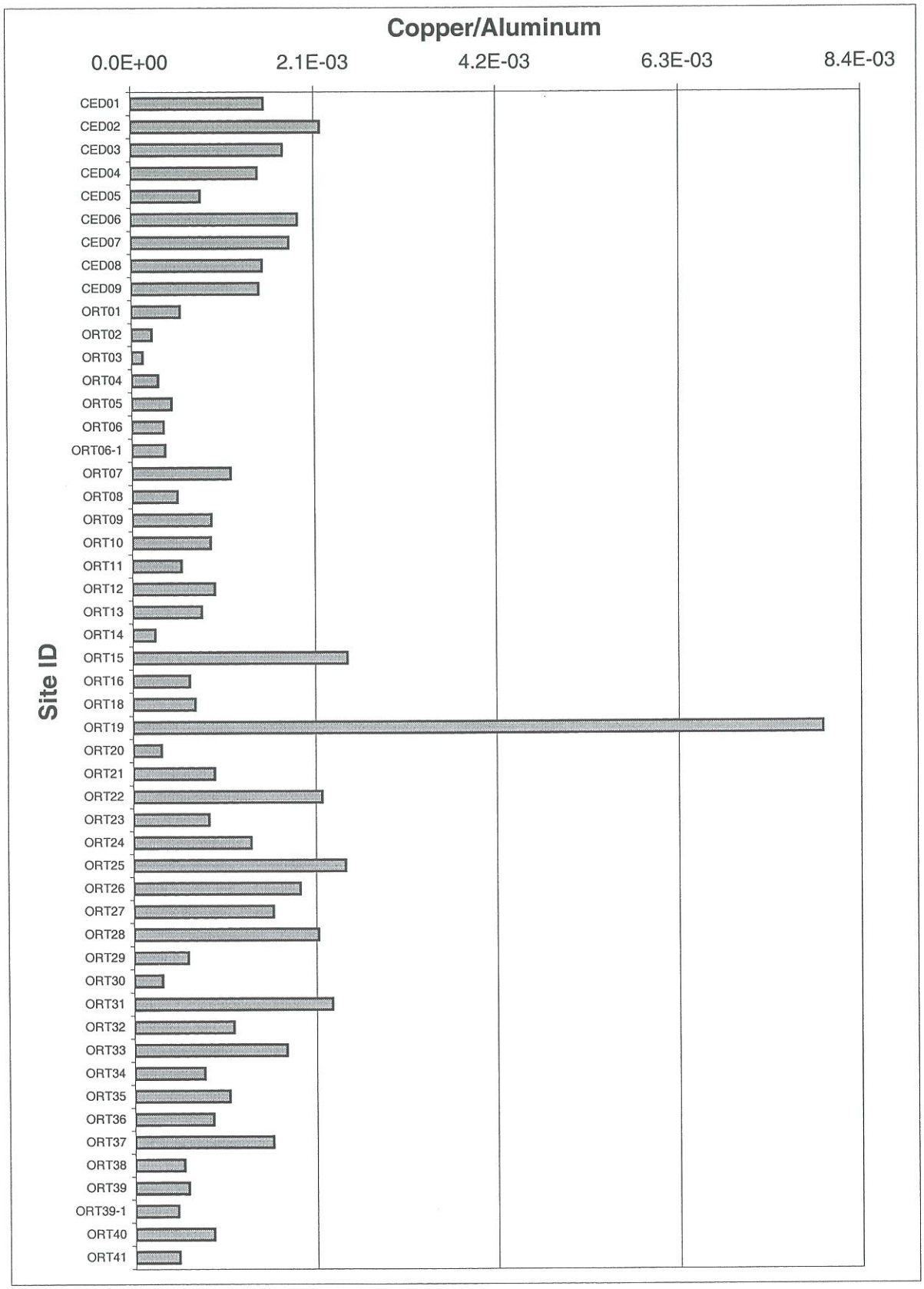
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6.3E-03
8.4E-03
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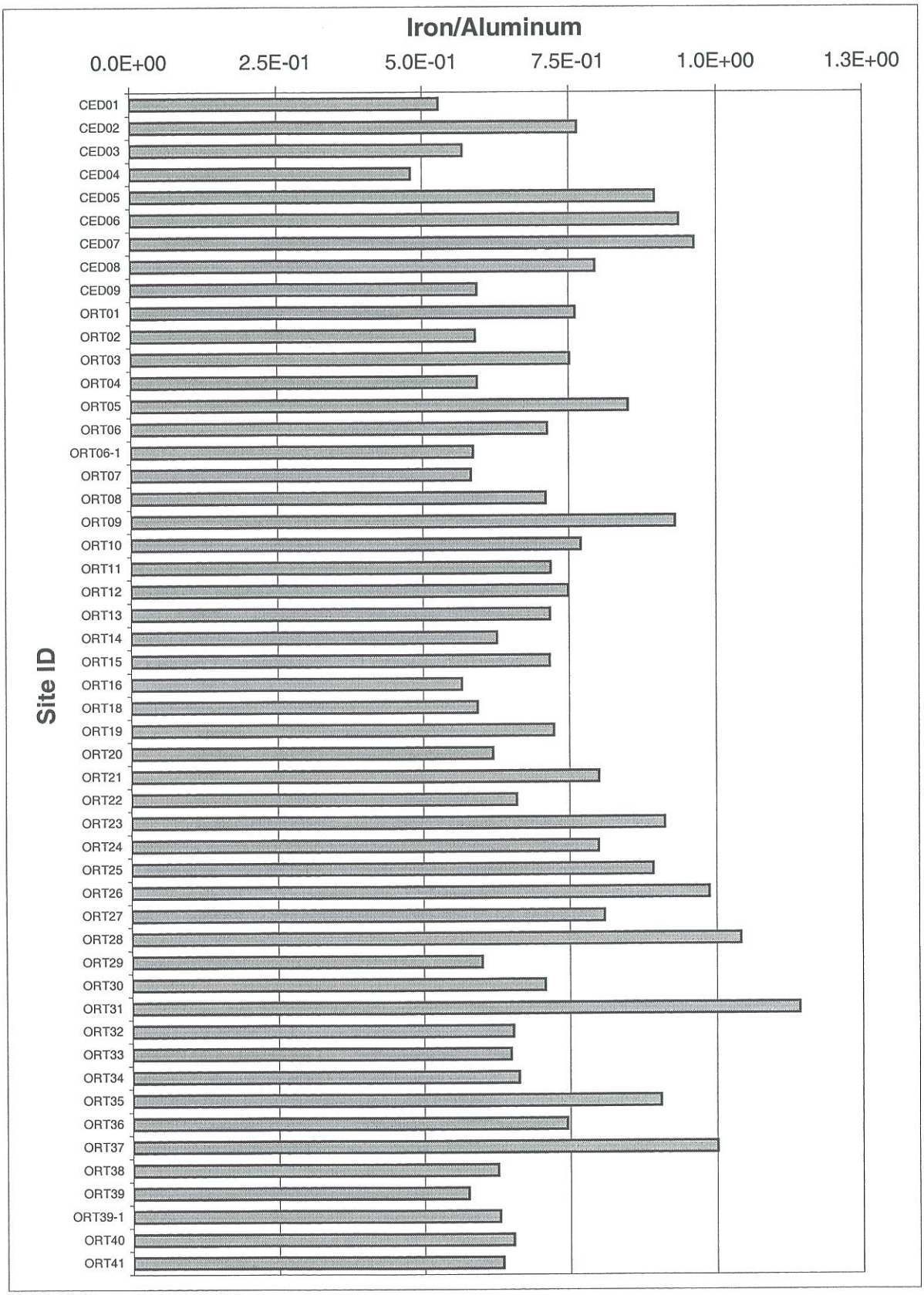
Iron/Aluminum
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2.5E-01
5.0E-01
7.5E-01
1.0E+00
1.3E+00
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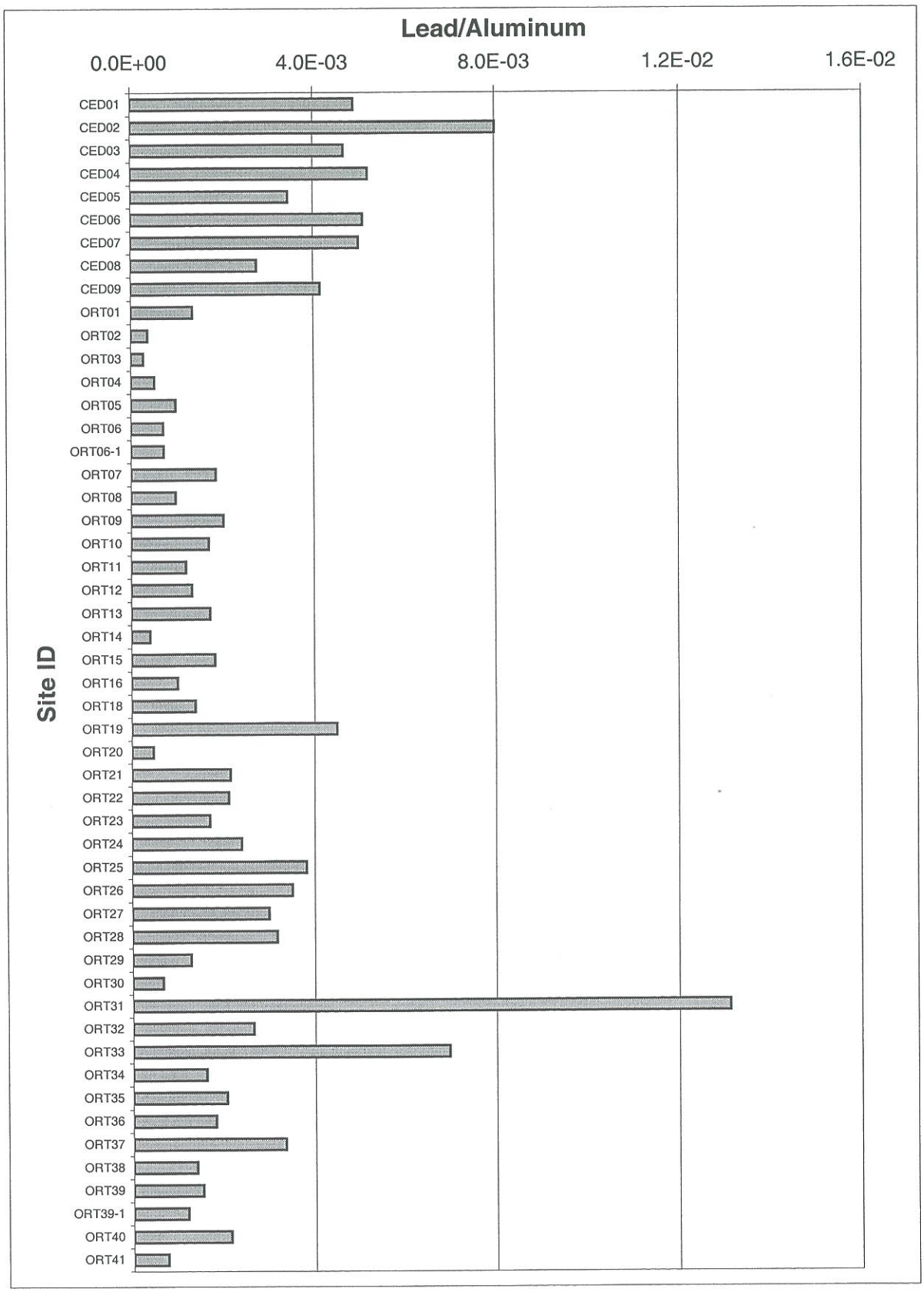
Lead/Aluminum
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1.2E-02
1.6E-02
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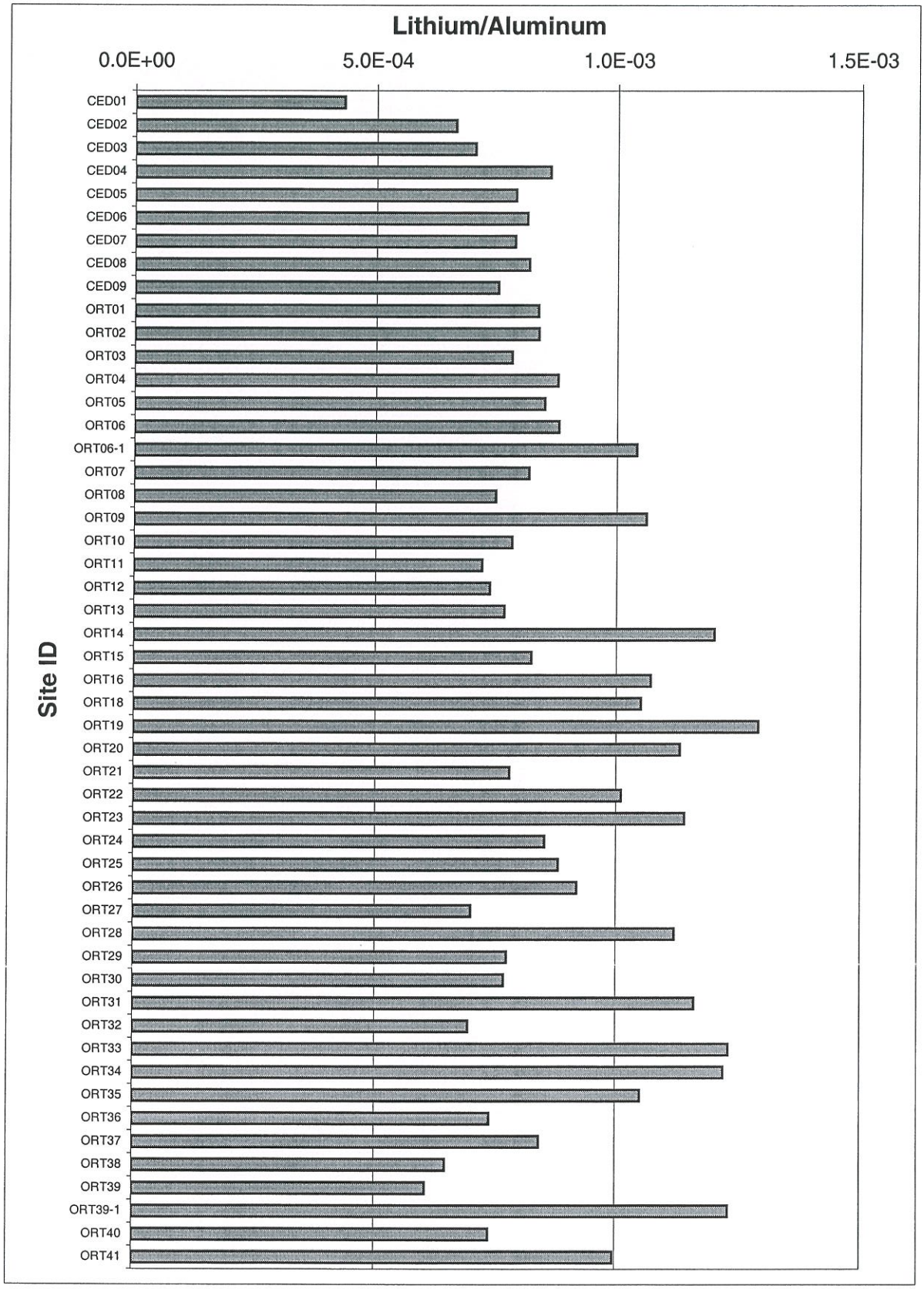
Lithium/Aluminum
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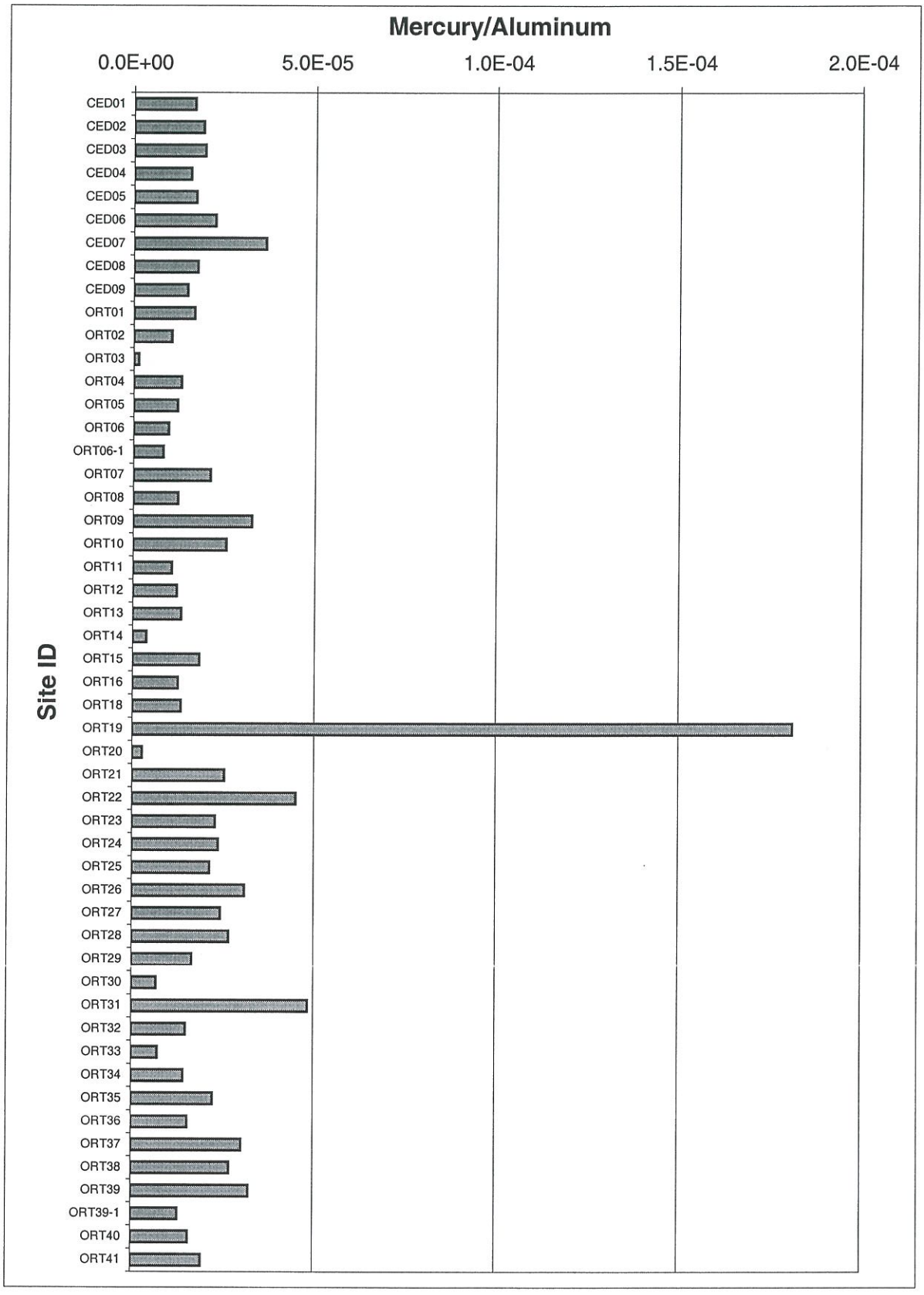
Mercury/Aluminum
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1.5E-04
2.0E-04
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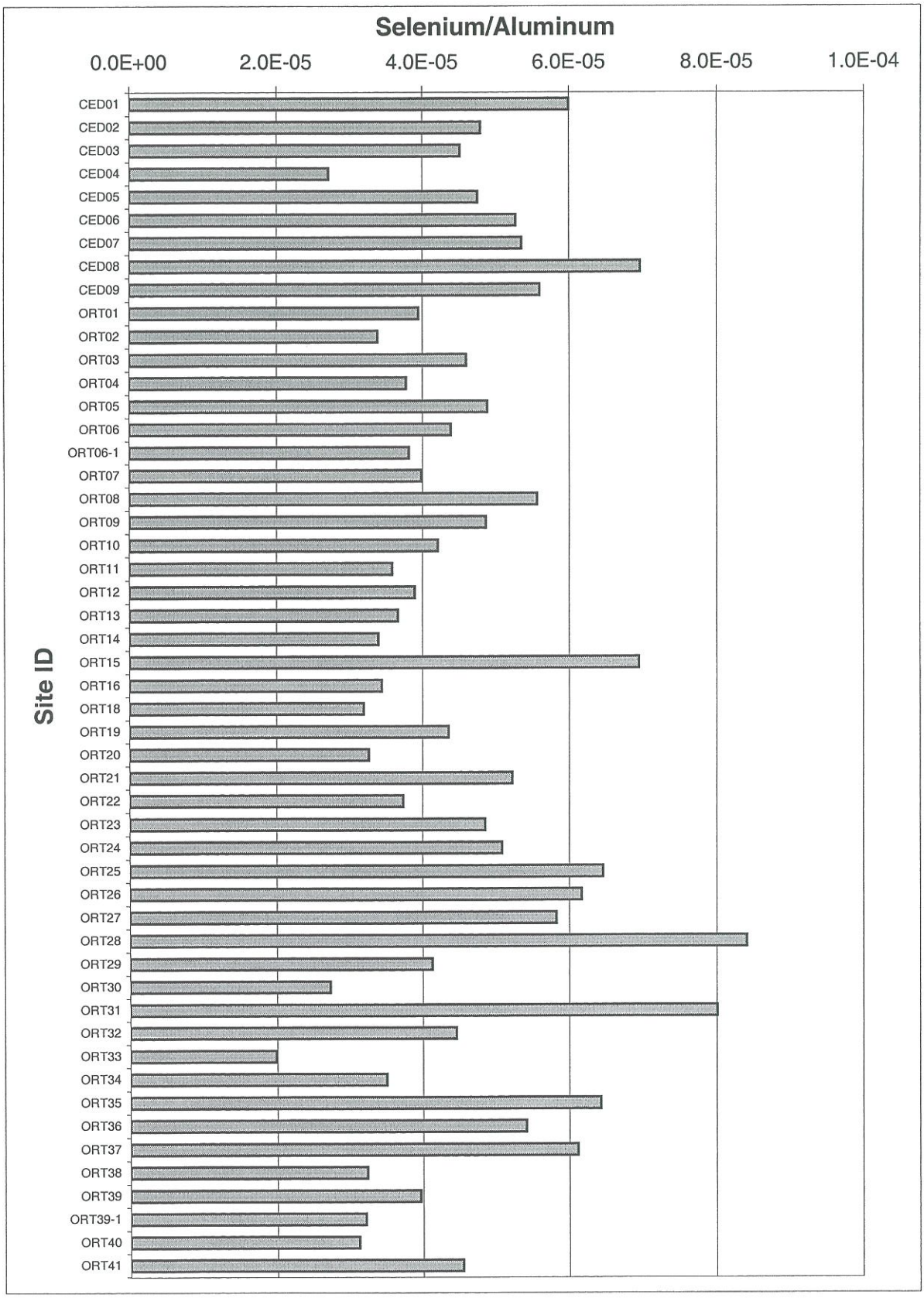
Selenium/Aluminum
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8.0E-05
1.0E-04
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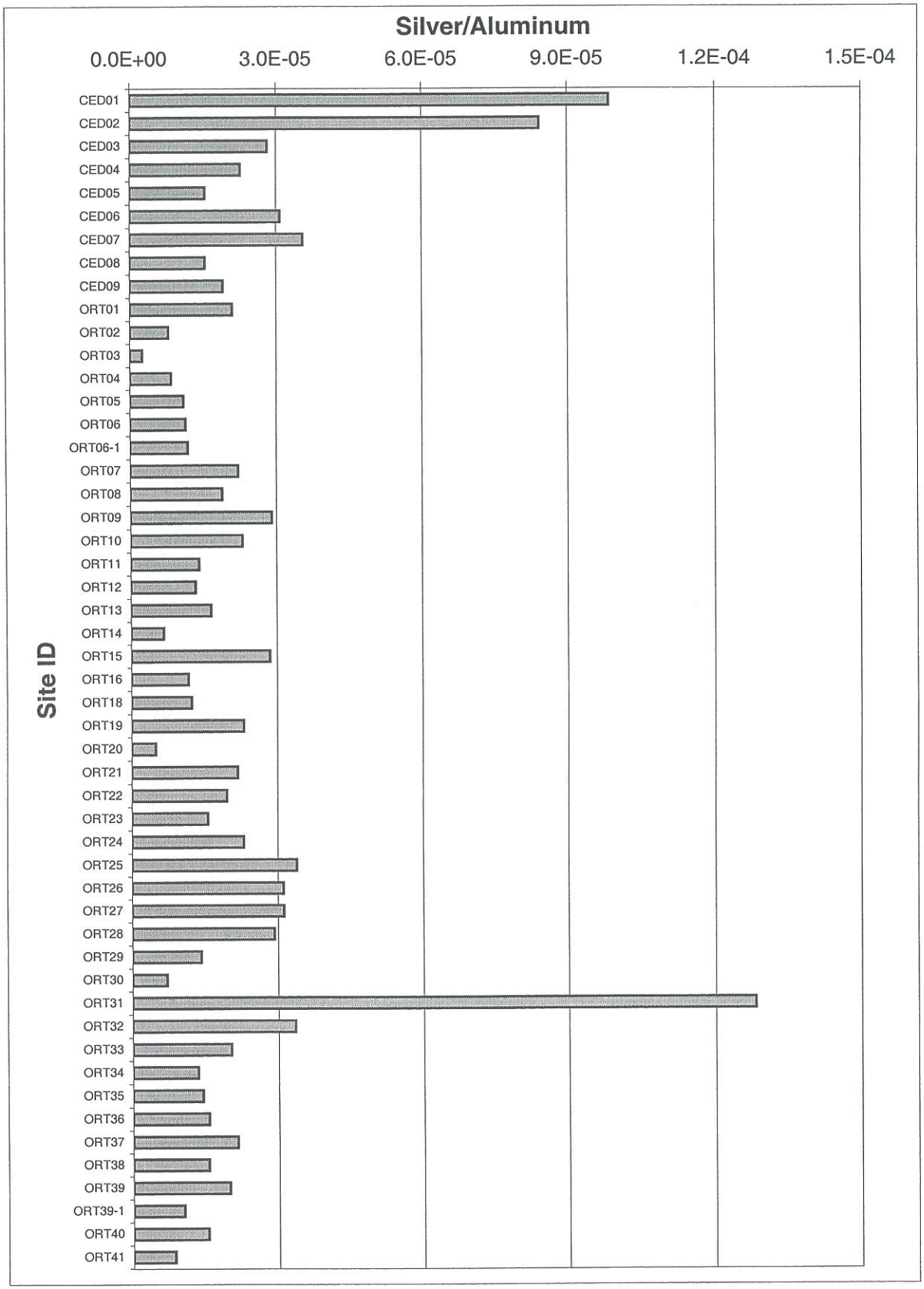
Silver/Aluminum
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1.2E-04
1.5E-04
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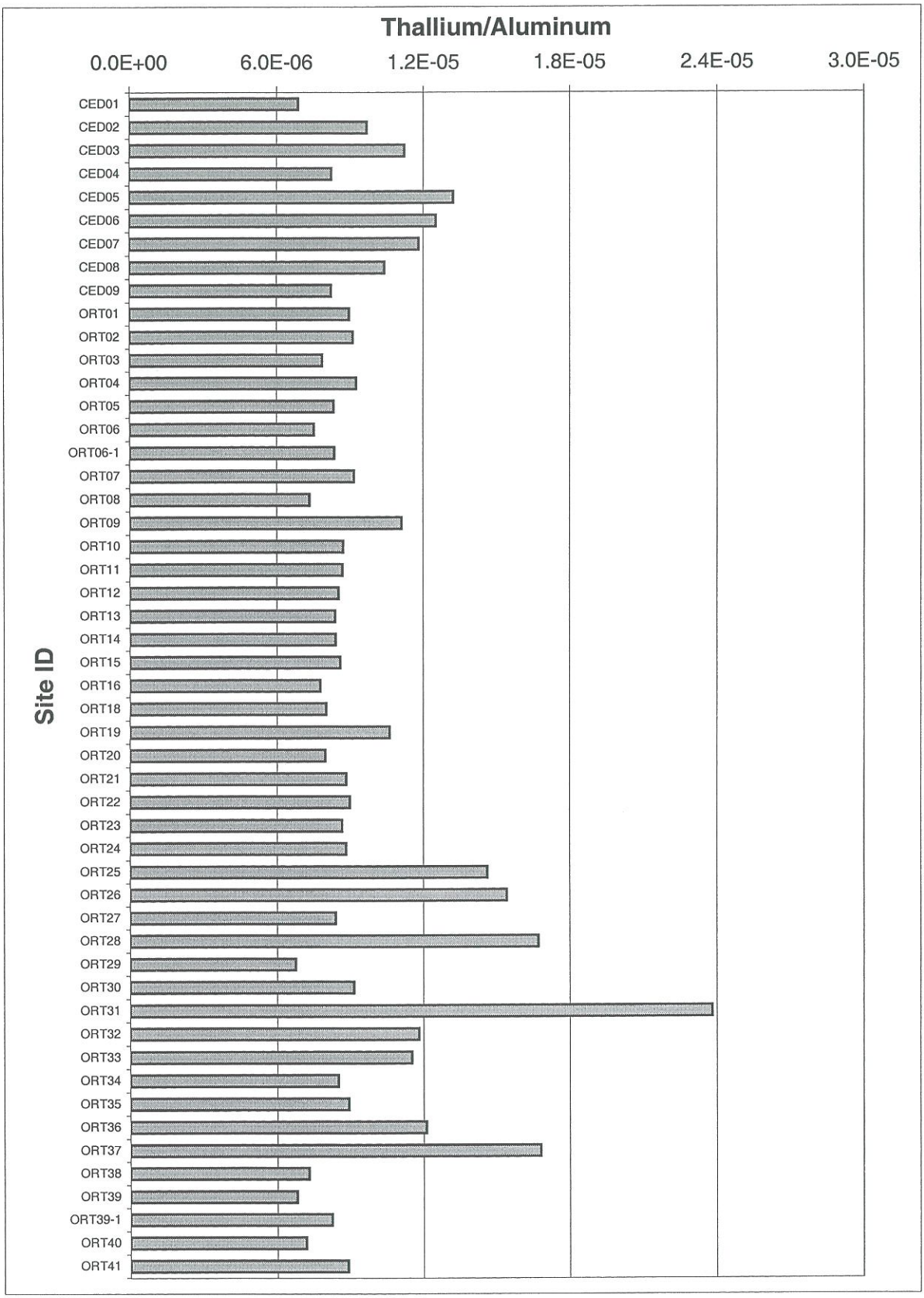
Thallium/Aluminum
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1.2E-05
1.8E-05
2.4E-05
3.0E-05
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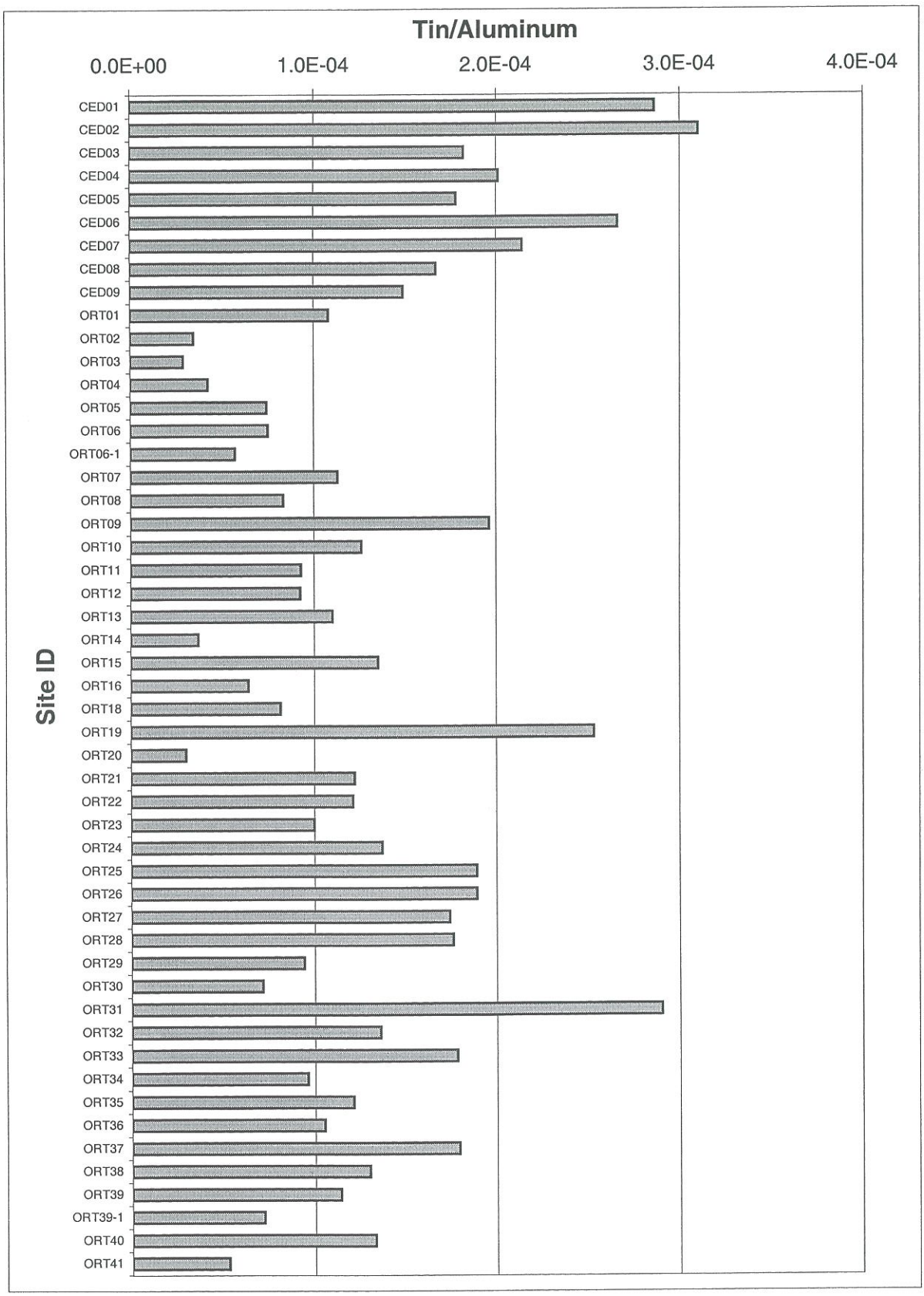
Tin/Aluminum
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4.0E-04
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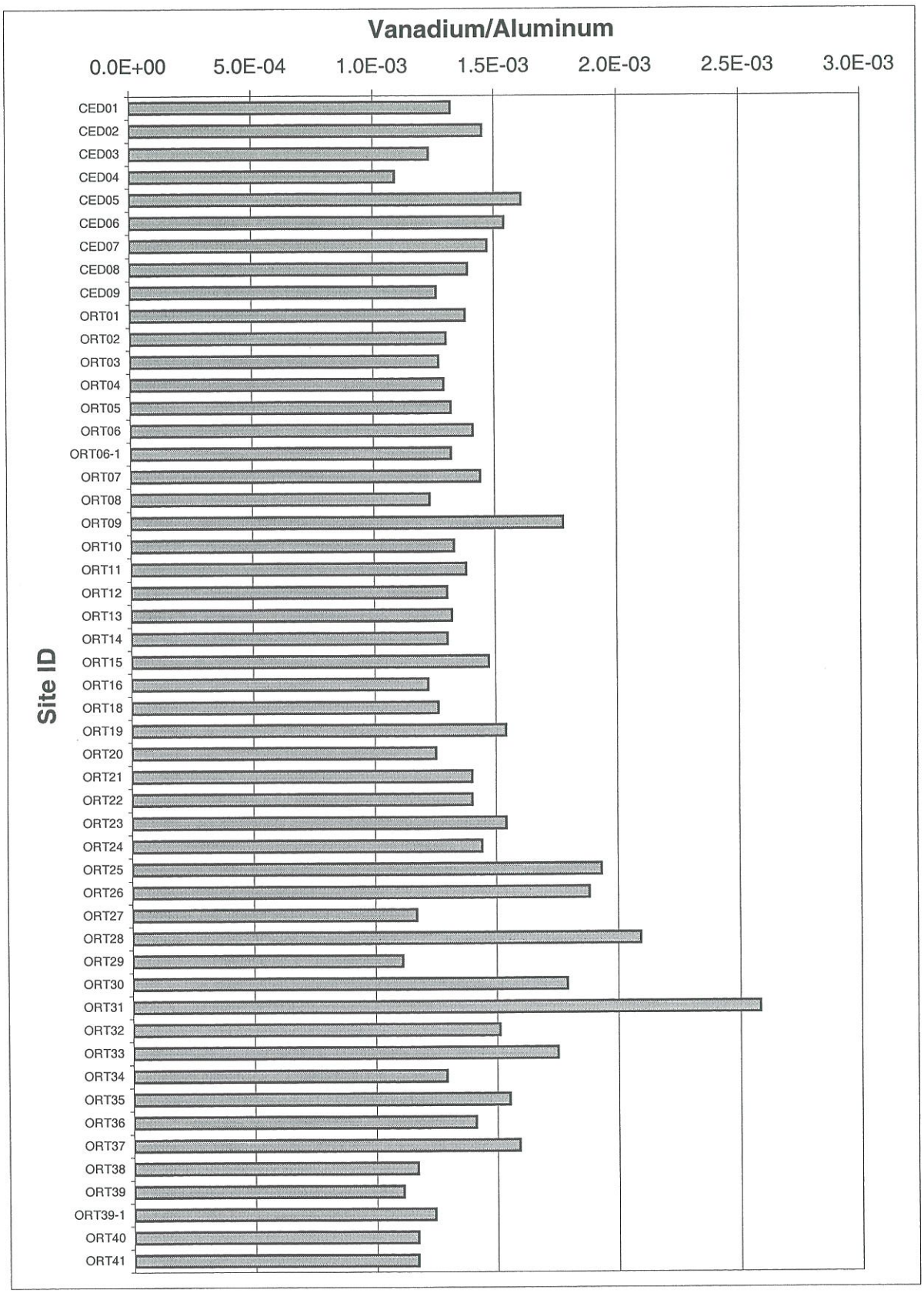
Vanadium/Aluminum
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2.5E-03
3.0E-03
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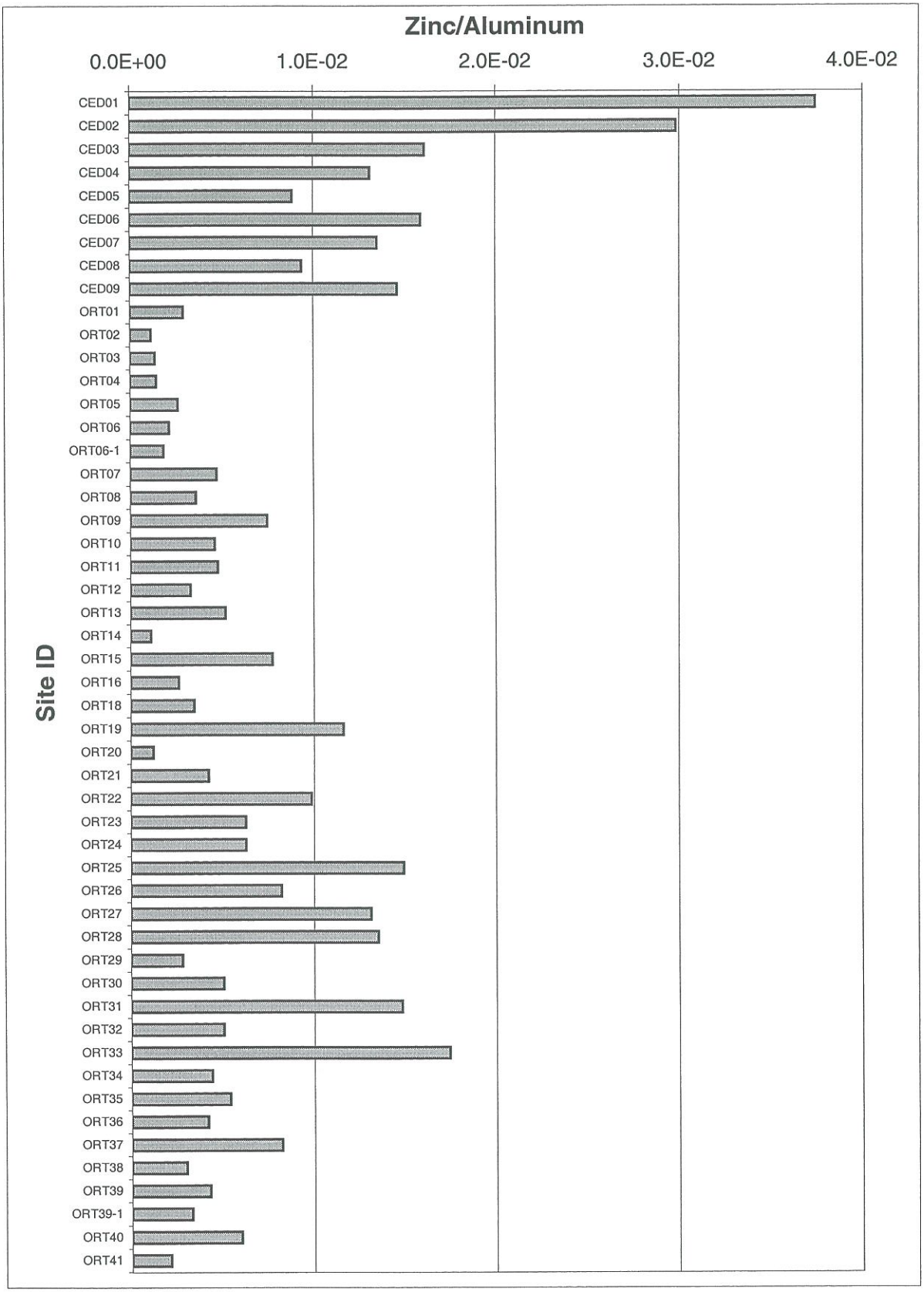
Zinc/Aluminum
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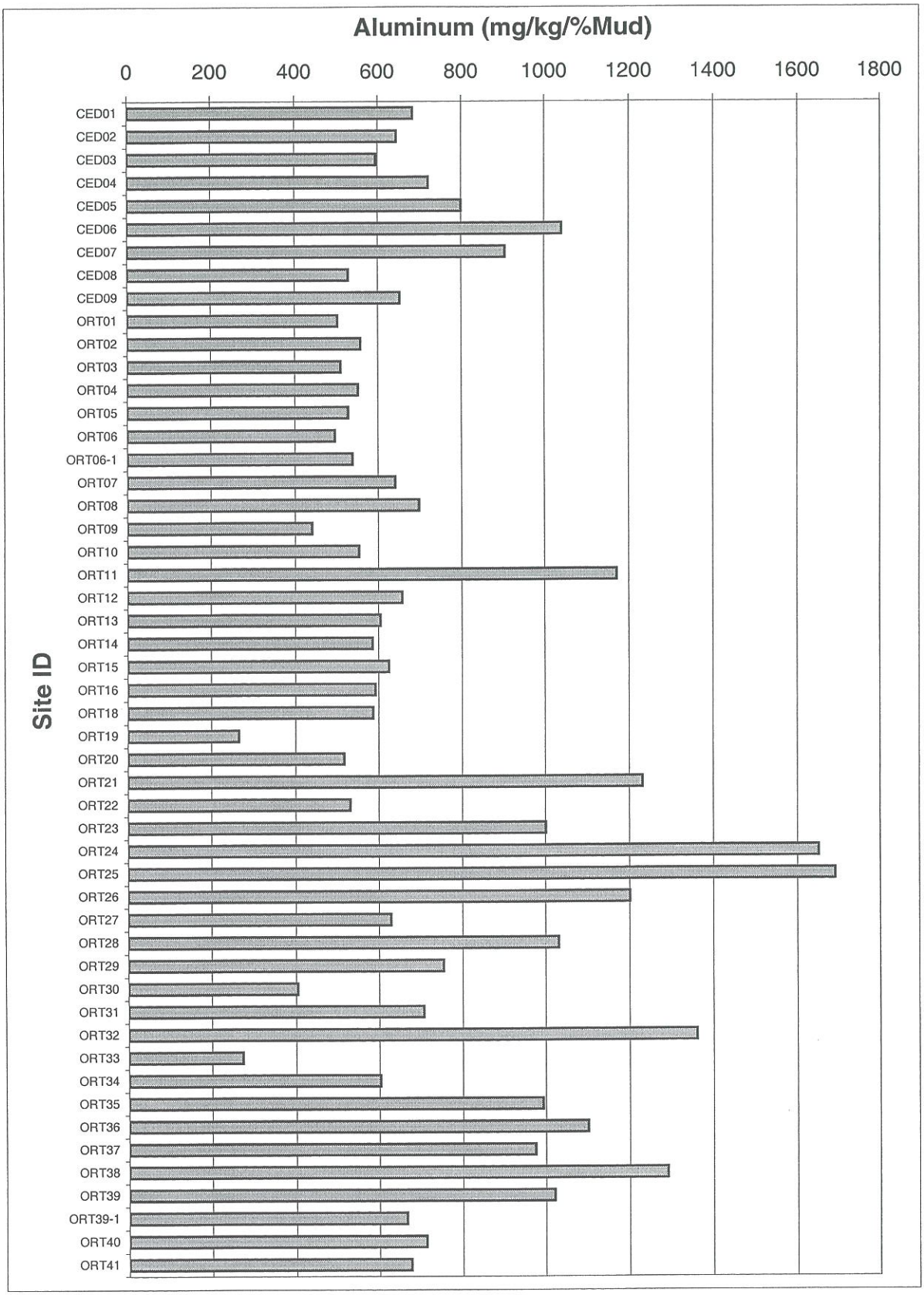
Aluminum (mg/kg/%Mud)
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200
400
600
800
1000
1200
1400
1600
1800
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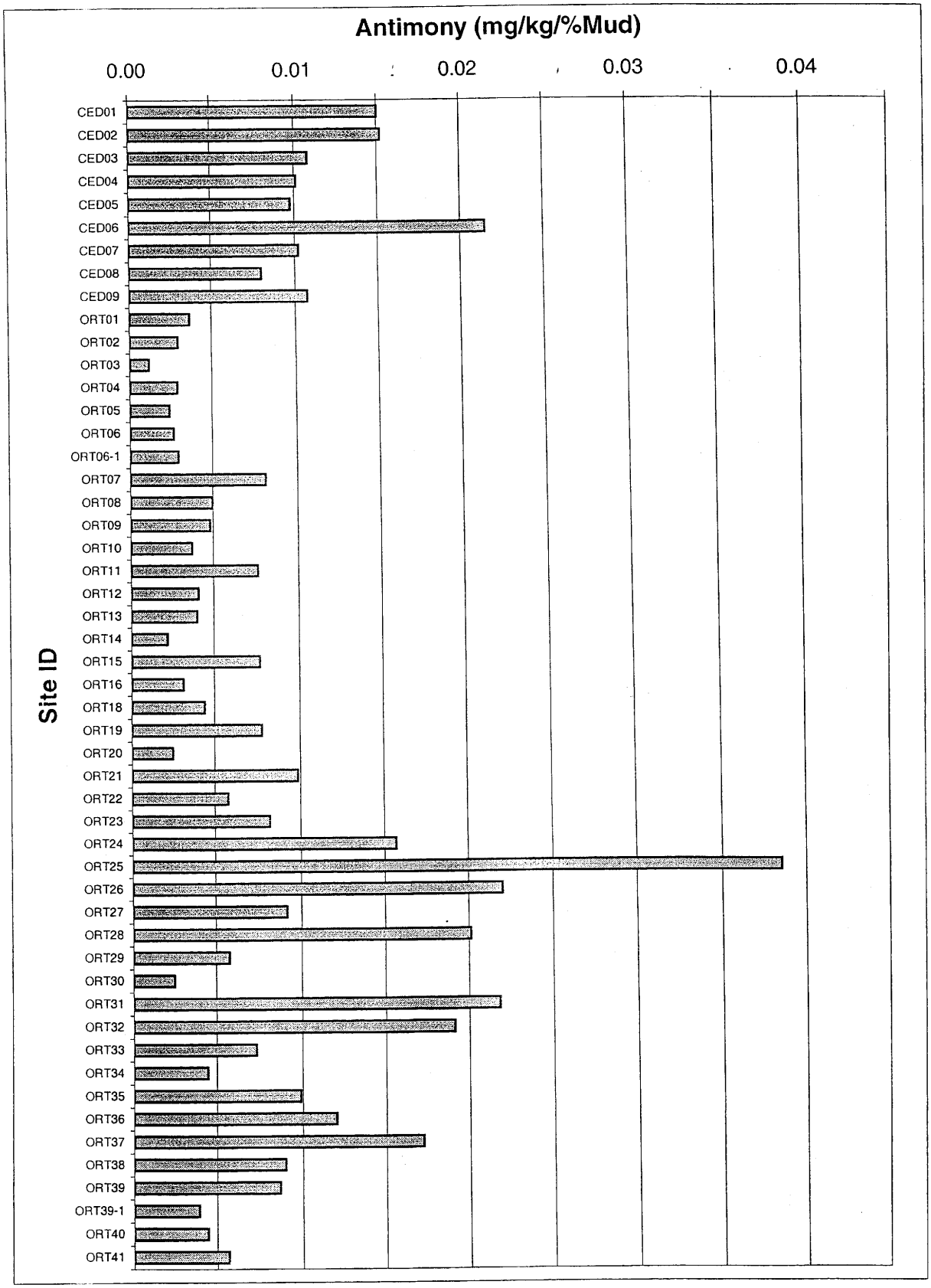
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0.04
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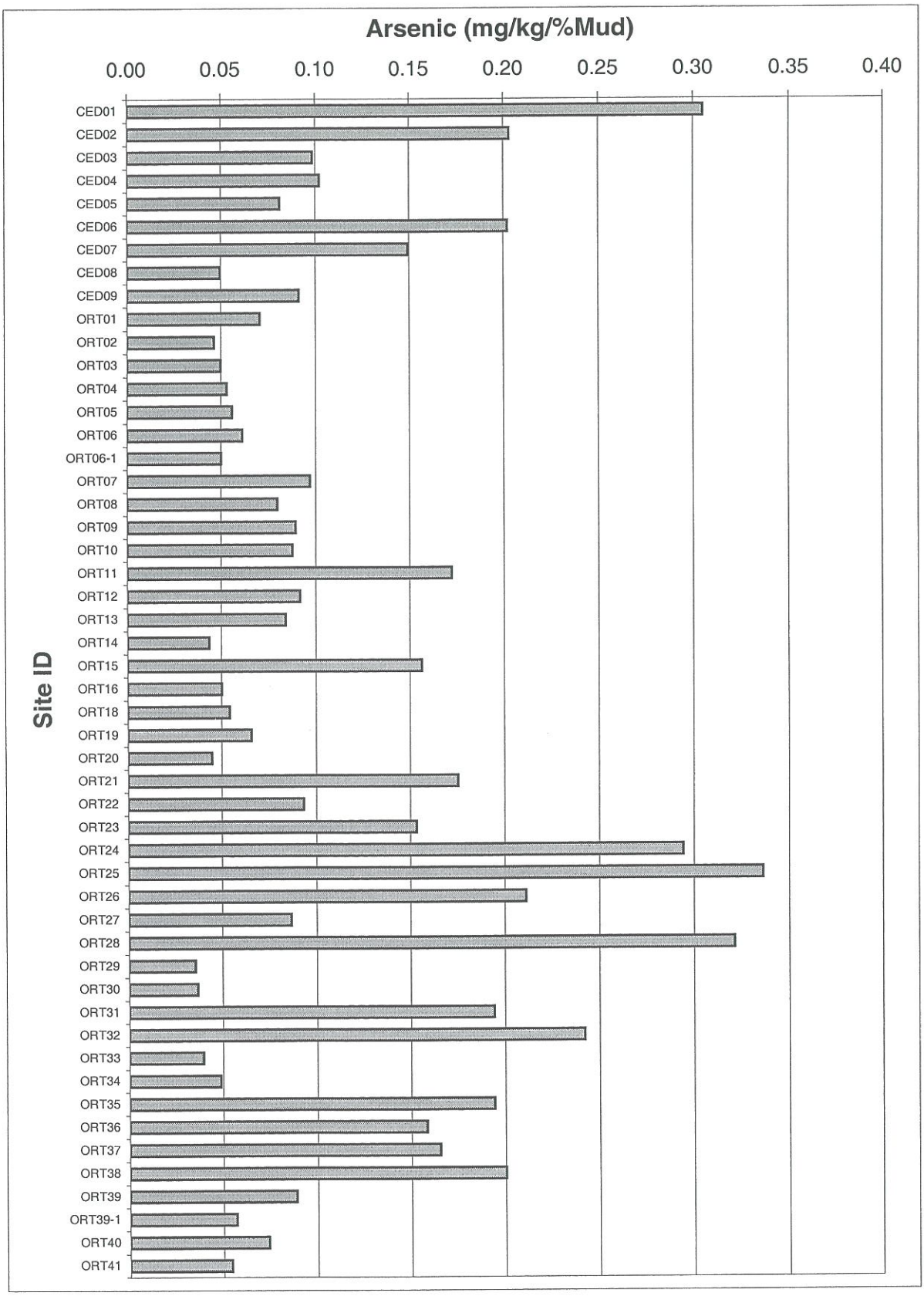
Arsenic (mg/kg/%Mud)
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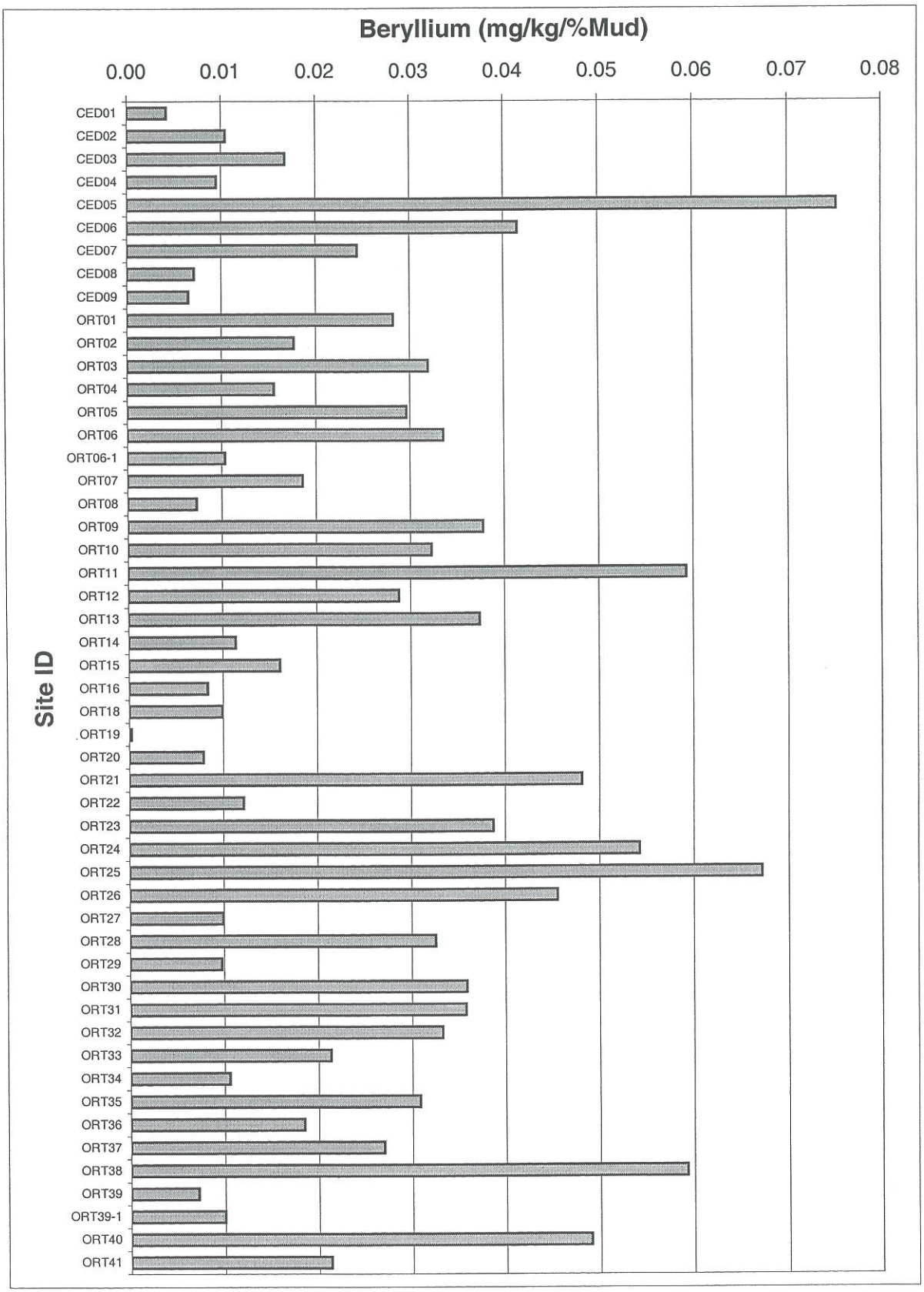
Beryllium (mg/kg/%Mud)
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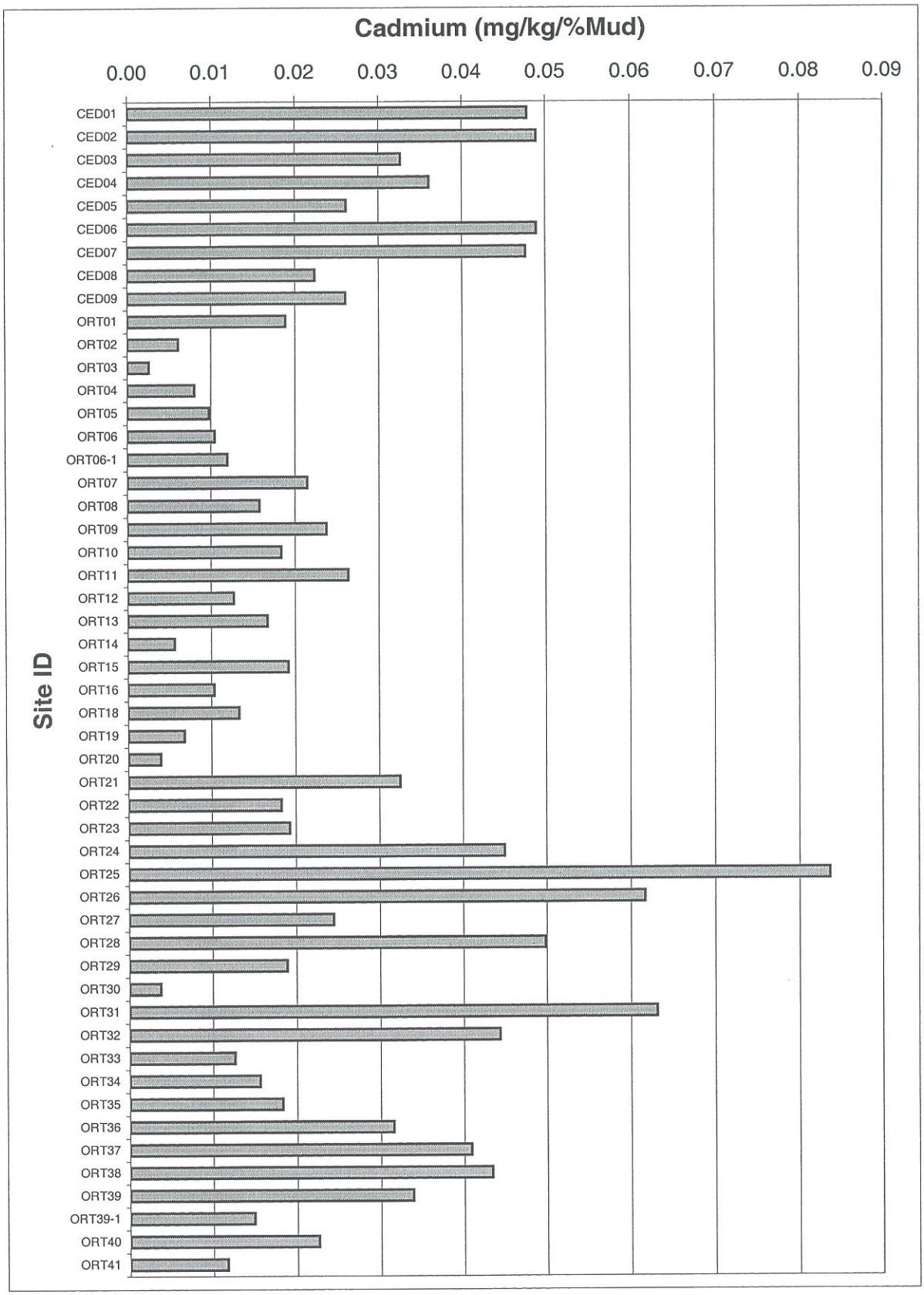
Cadmium (mg/kg/%Mud)
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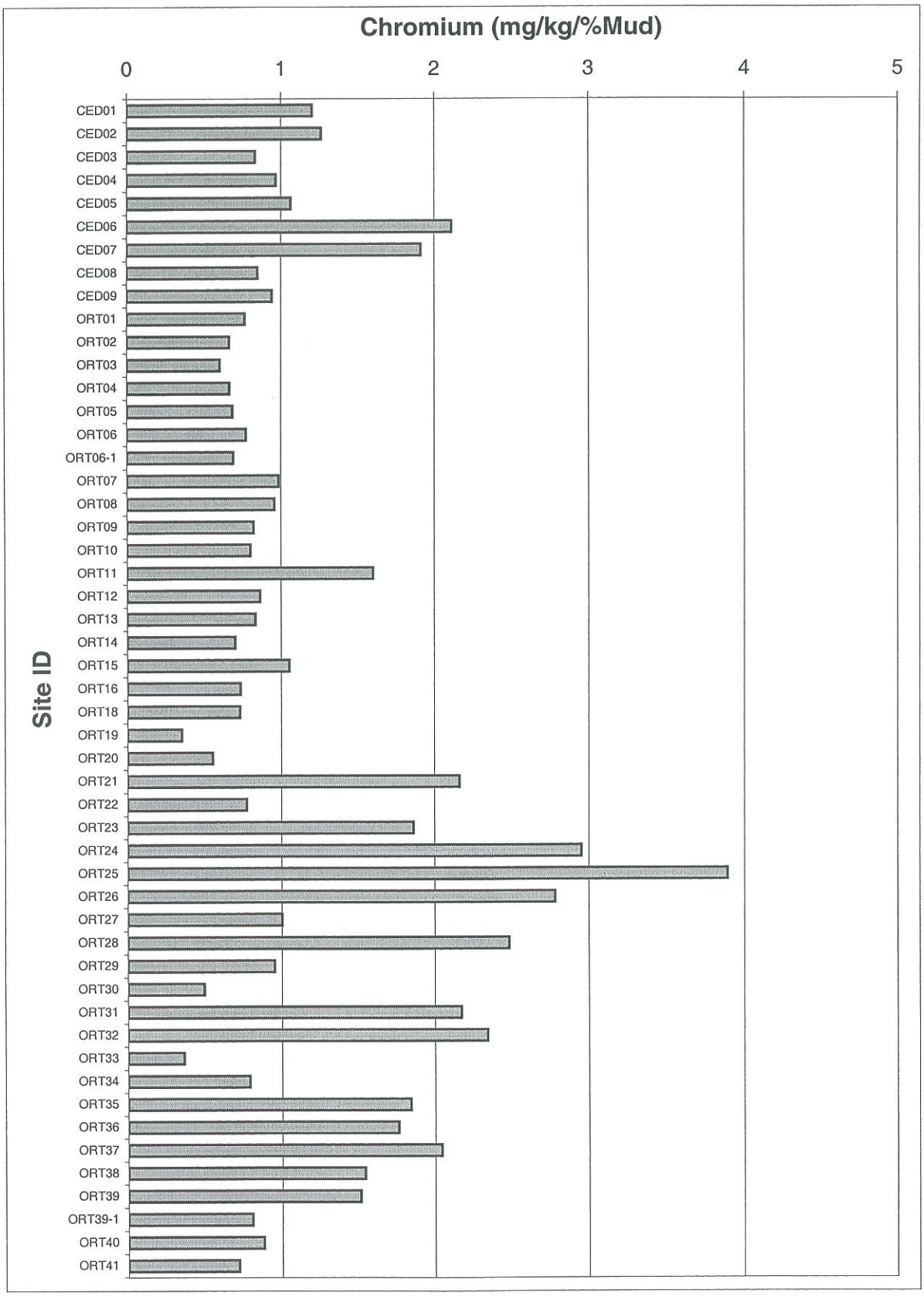
Chromium (mg/kg/%Mud)
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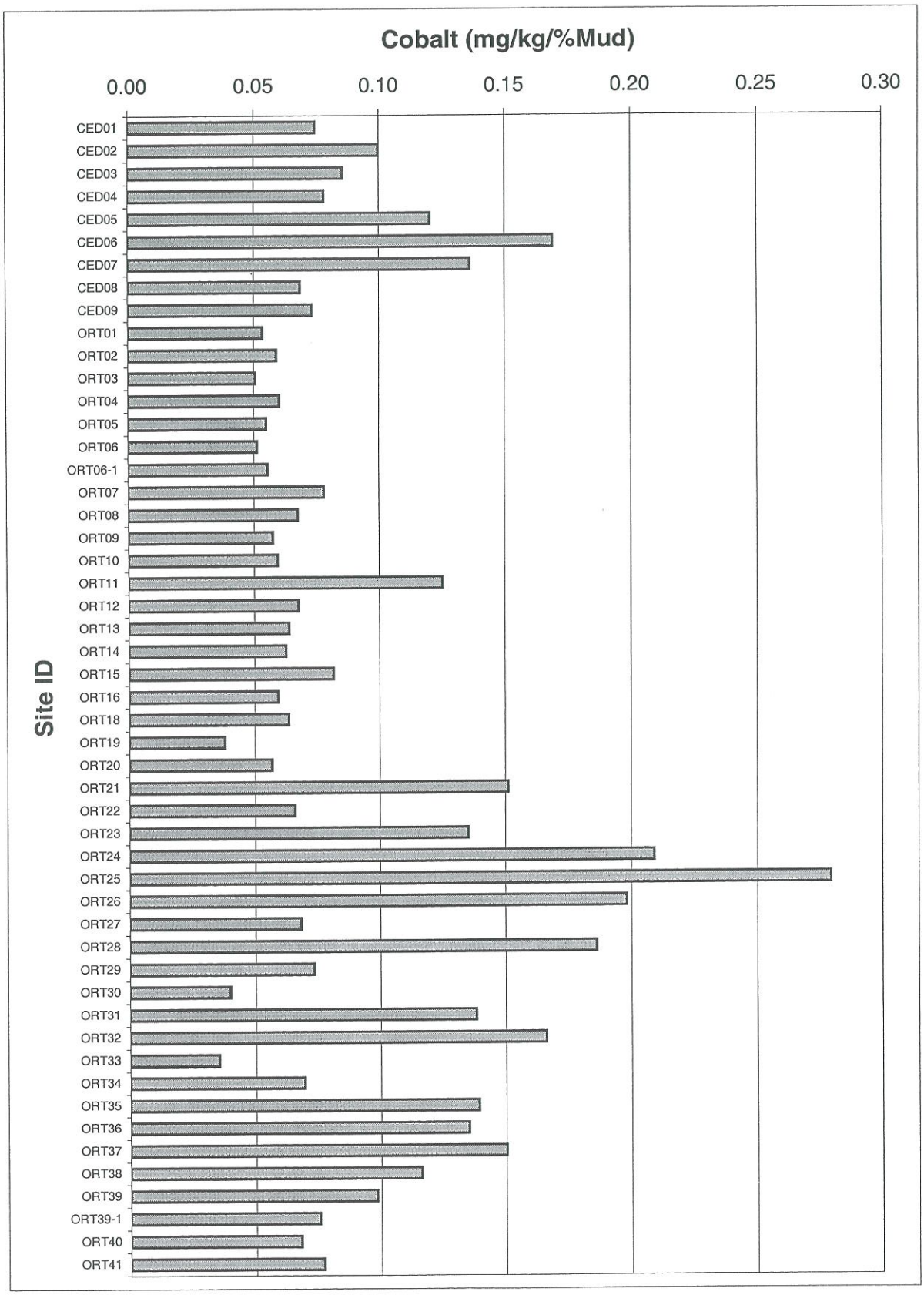
Cobalt (mg/kg/%Mud)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
Site ID
CED01
CED02
CED03
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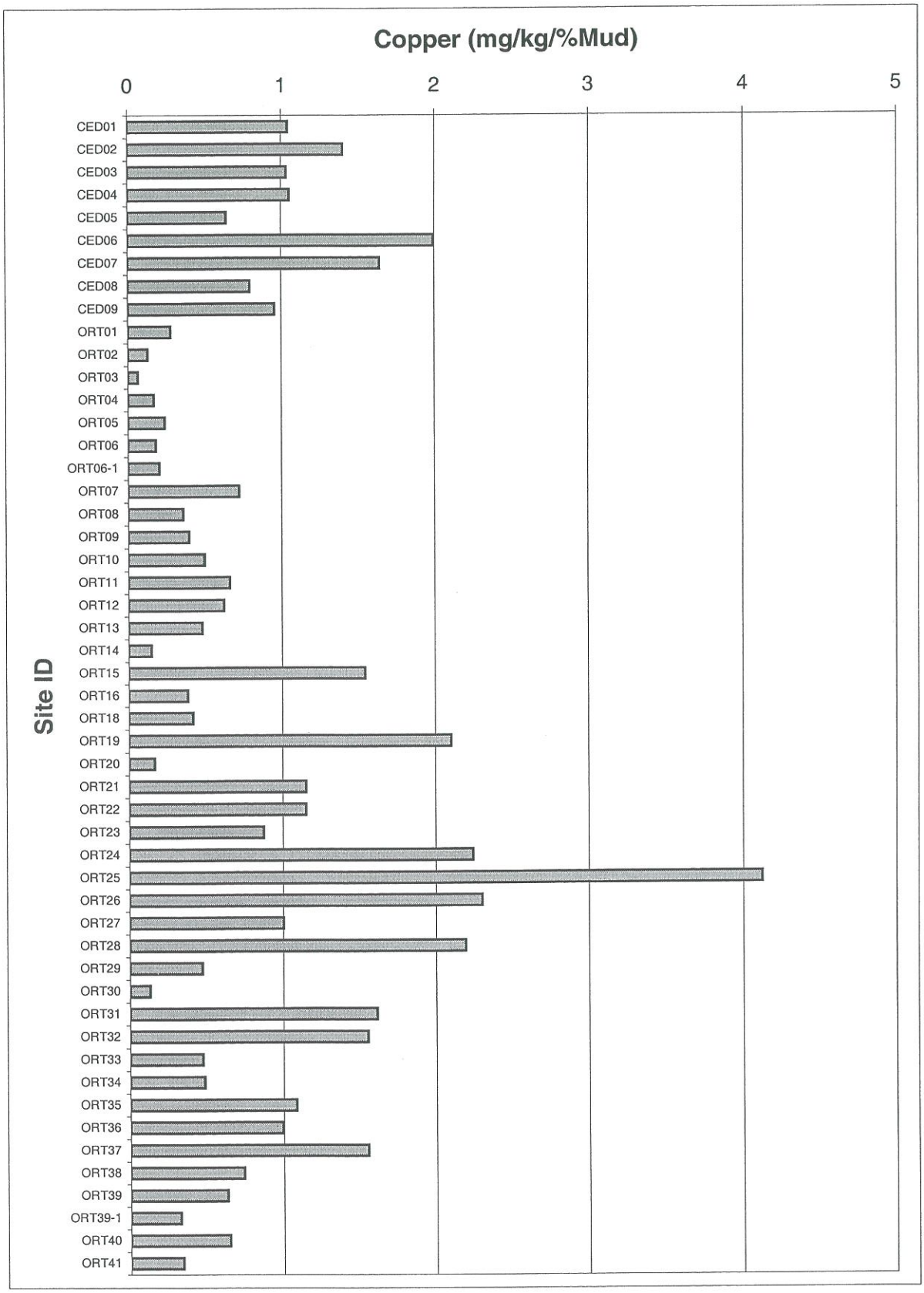
Copper (mg/kg/%Mud)
0
1
2
3
4
5
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
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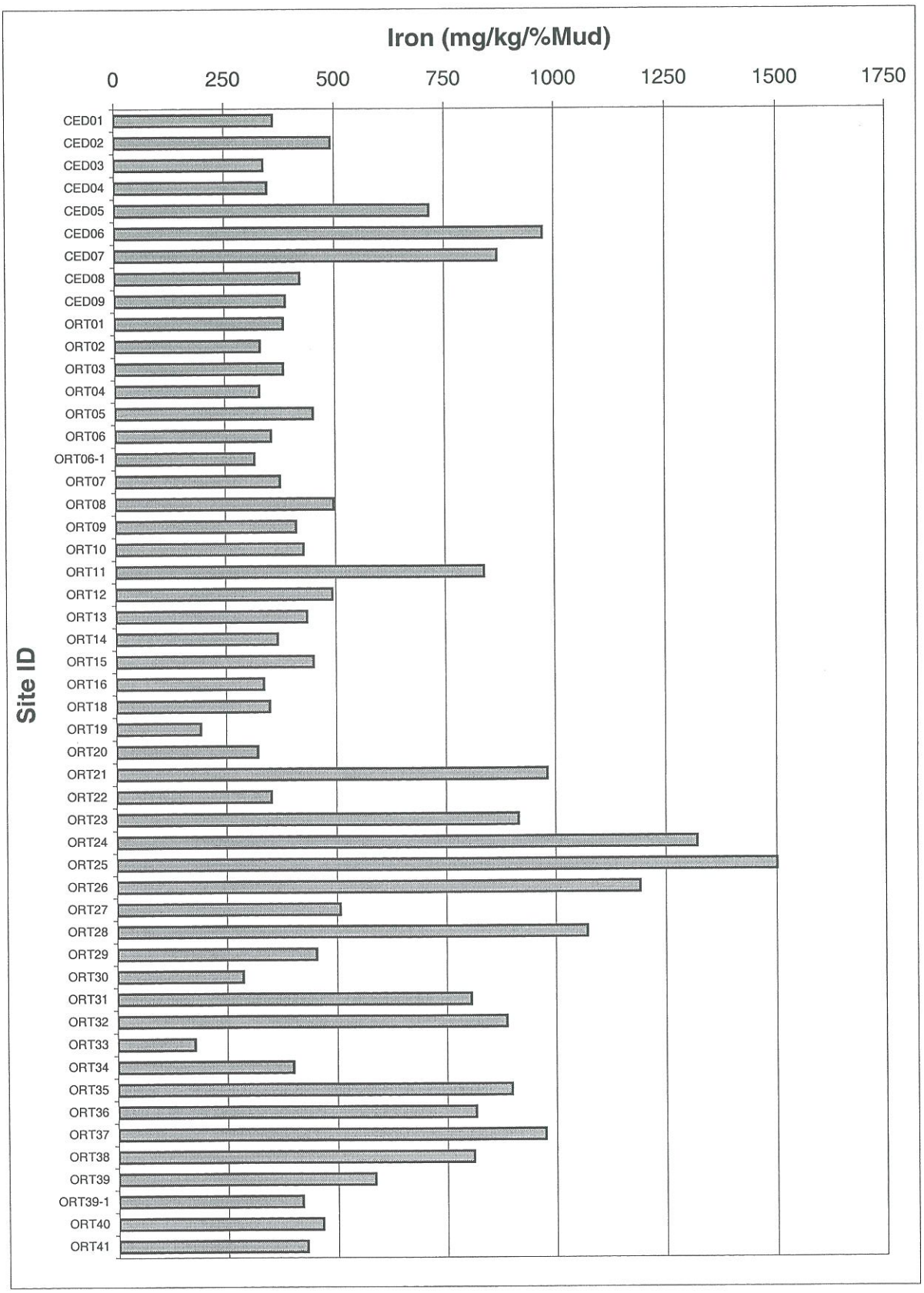
Iron (mg/kg/%Mud)
0
250
500
750
1000
1250
1500
1750
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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ORT06
ORT06-1
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ORT39-1
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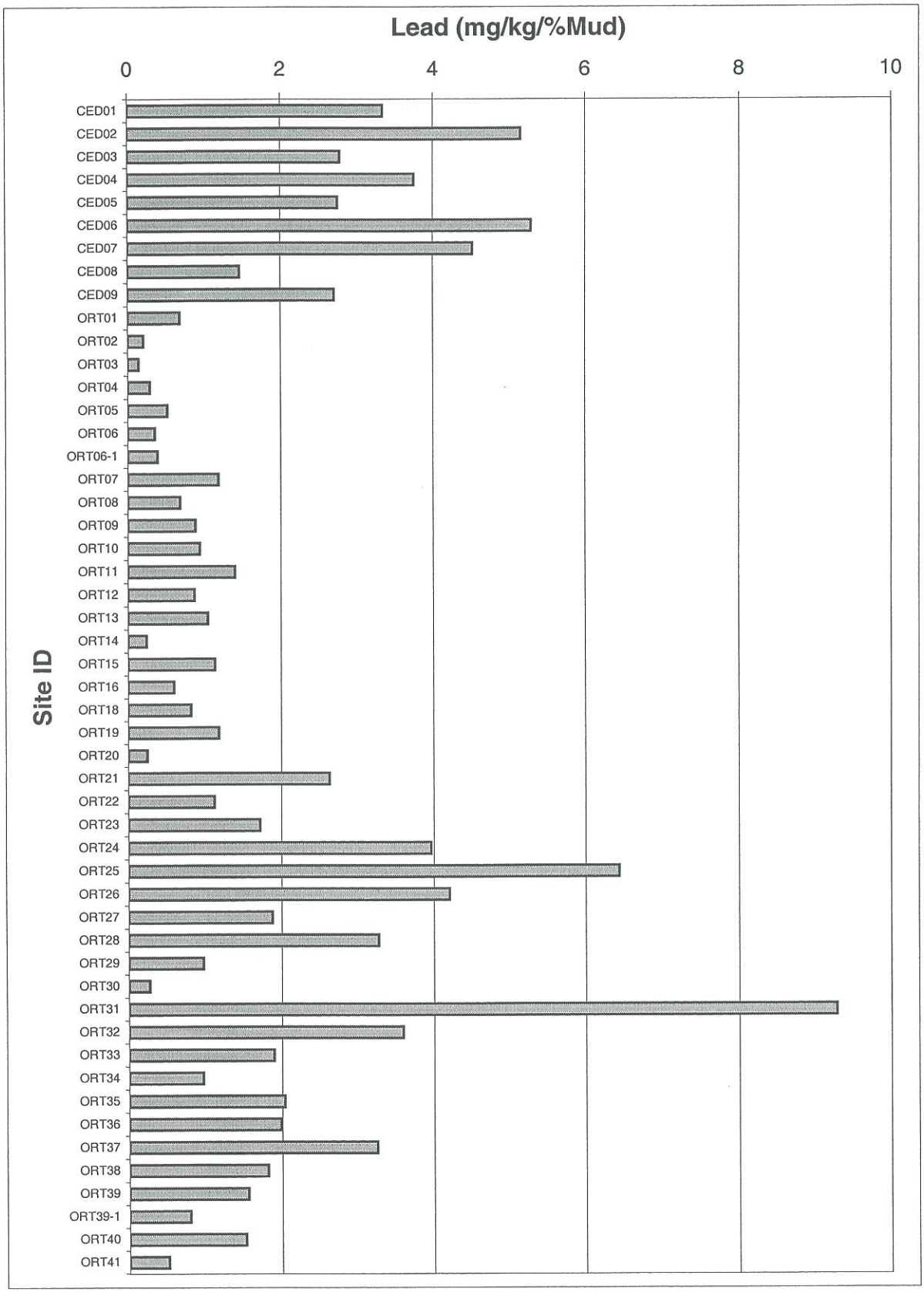
Lead (mg/kg/%Mud)
0
2
4
6
8
10
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
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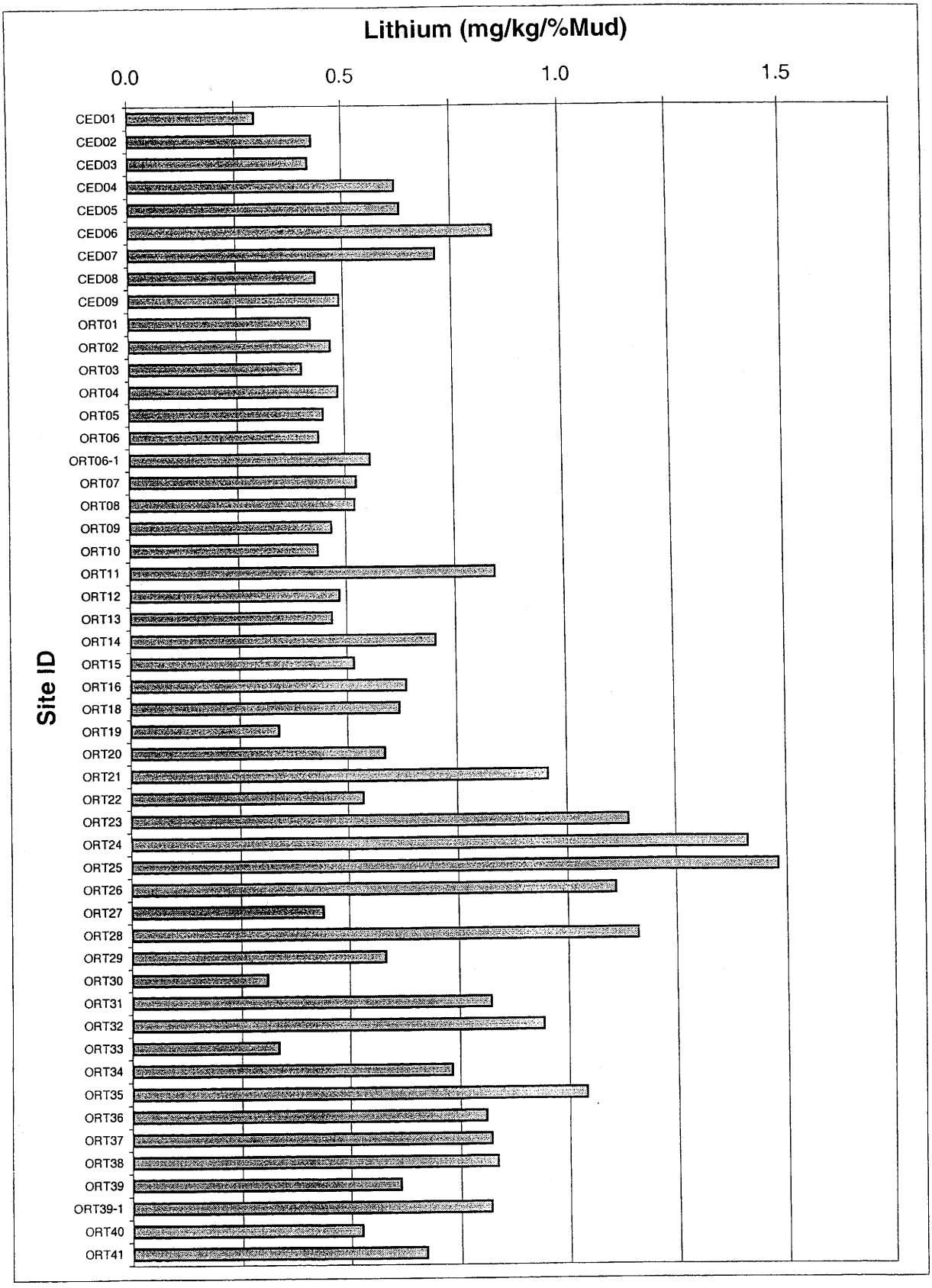
Lithium (mg/kg/%Mud)
0.0
0.5
1.0
1.5
Site ID
CED01
CED02
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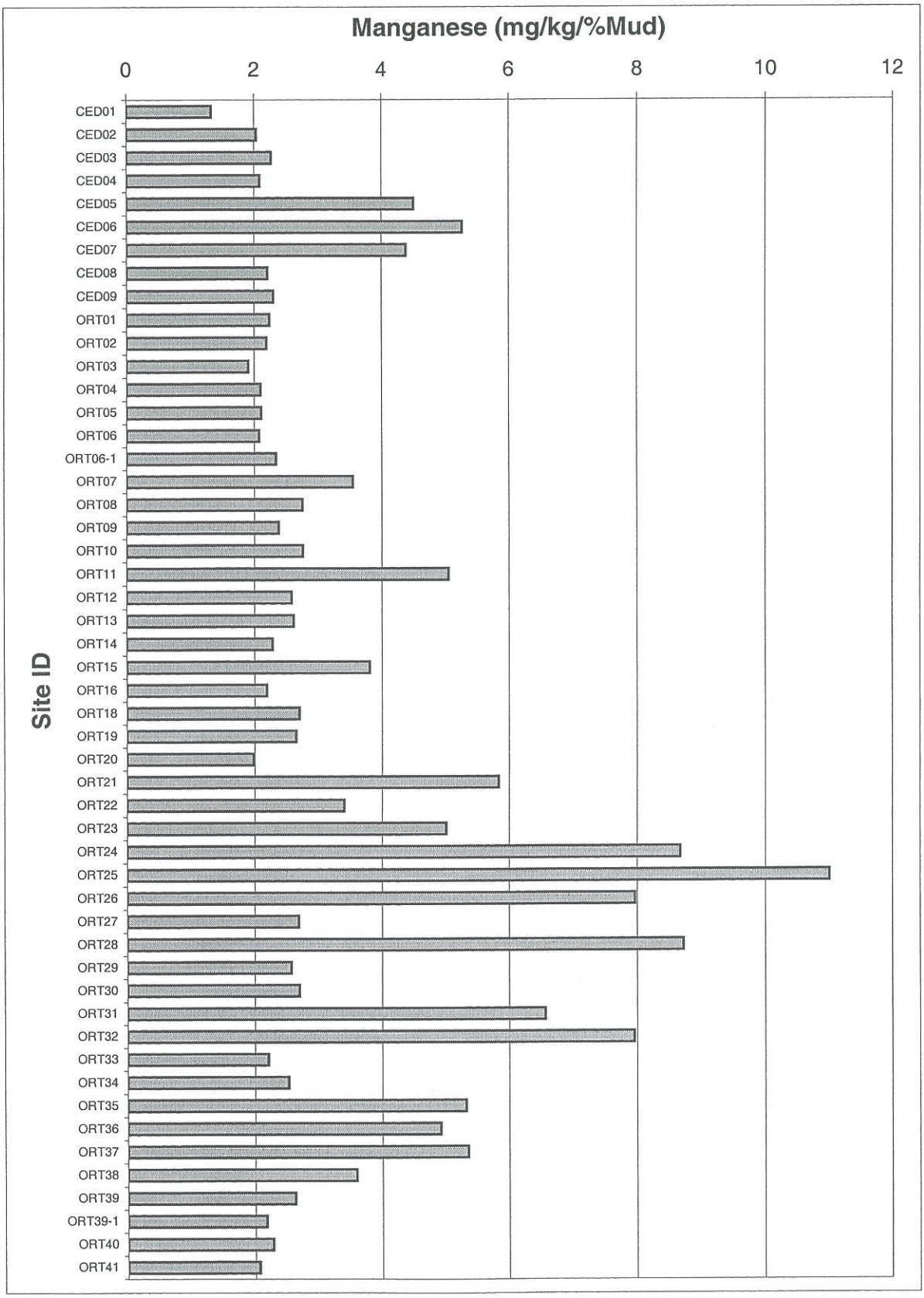
Manganese (mg/kg/%Mud)
0
2
4
6
8
10
12
Site ID
CED01
CED02
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CED05
CED06
CED07
CED08
CED09
ORT01
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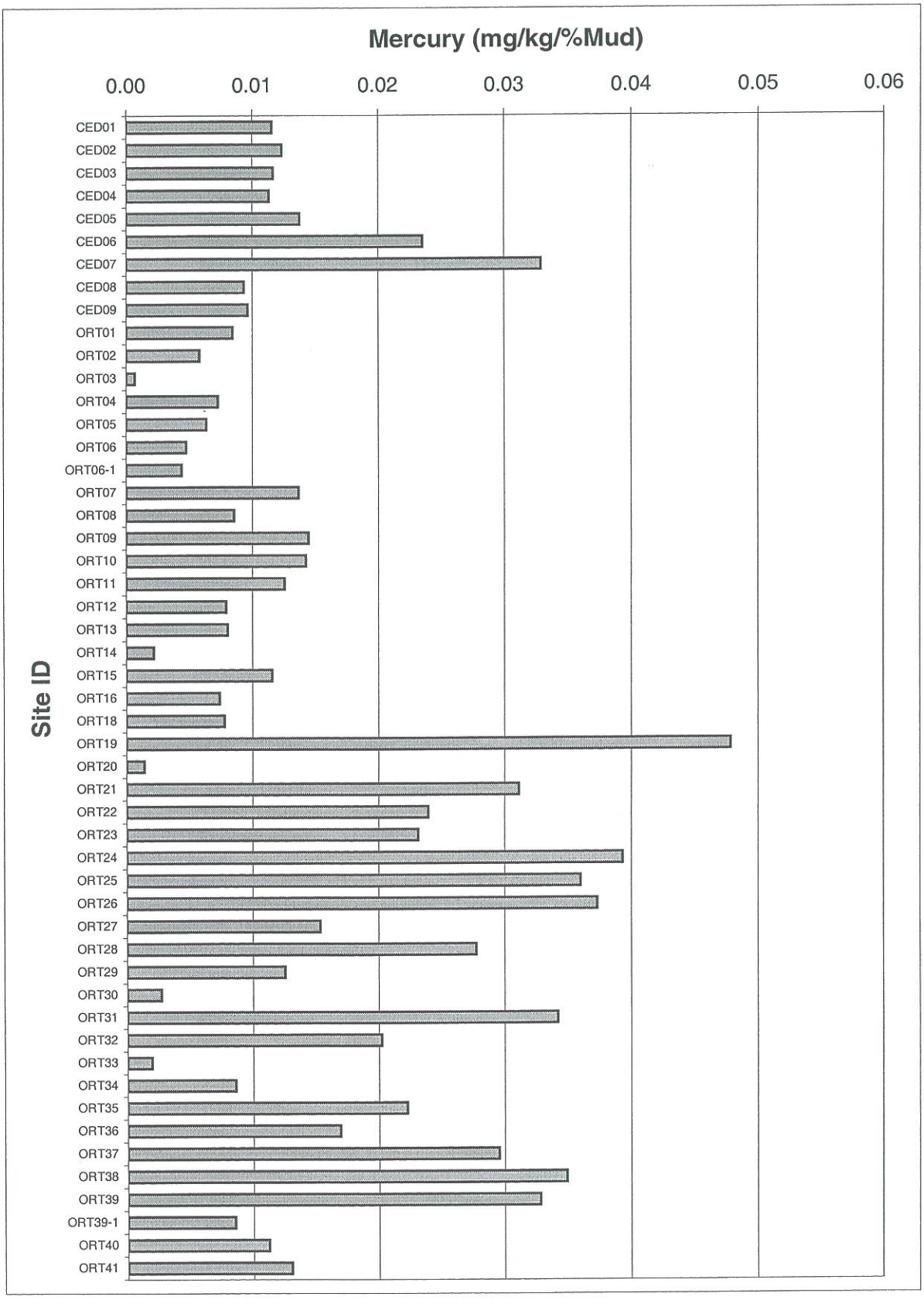
Mercury (mg/kg/%Mud)
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
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ORT39-1
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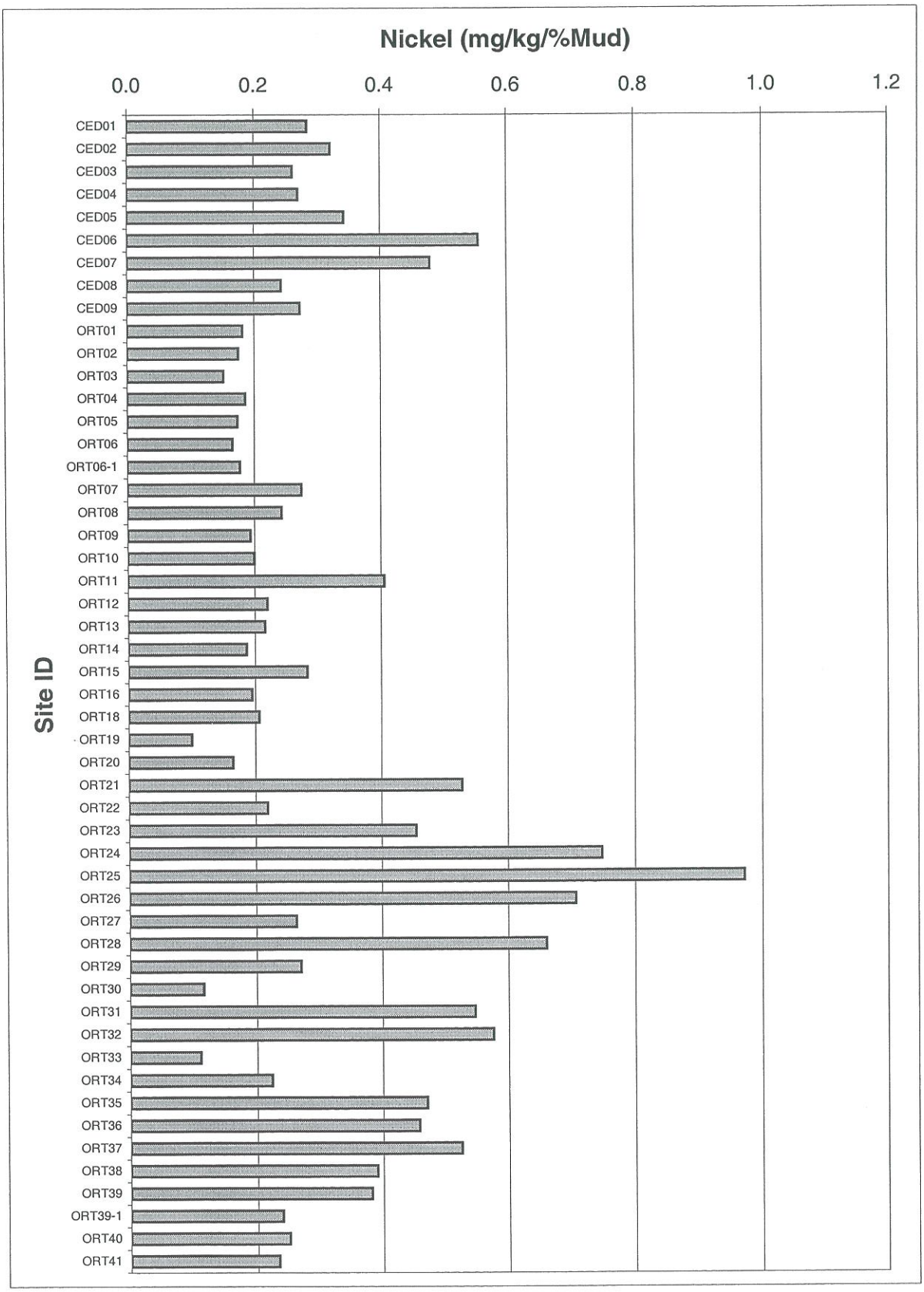
Nickel (mg/kg/%Mud)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Site ID
CED01
CED02
CED03
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ORT01
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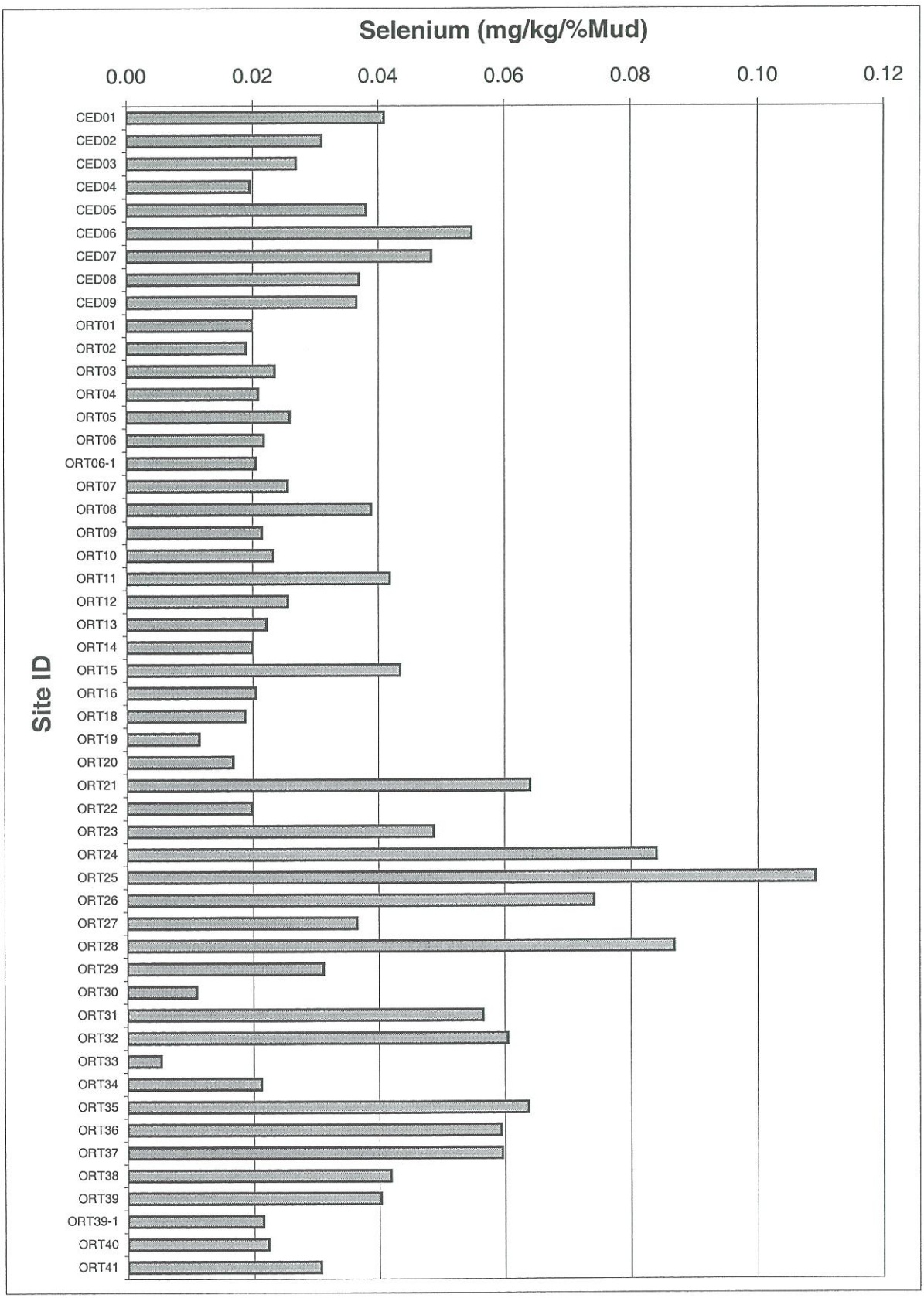
Selenium (mg/kg/%Mud)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
Site ID
CED01
CED02
CED03
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ORT01
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ORT39-1
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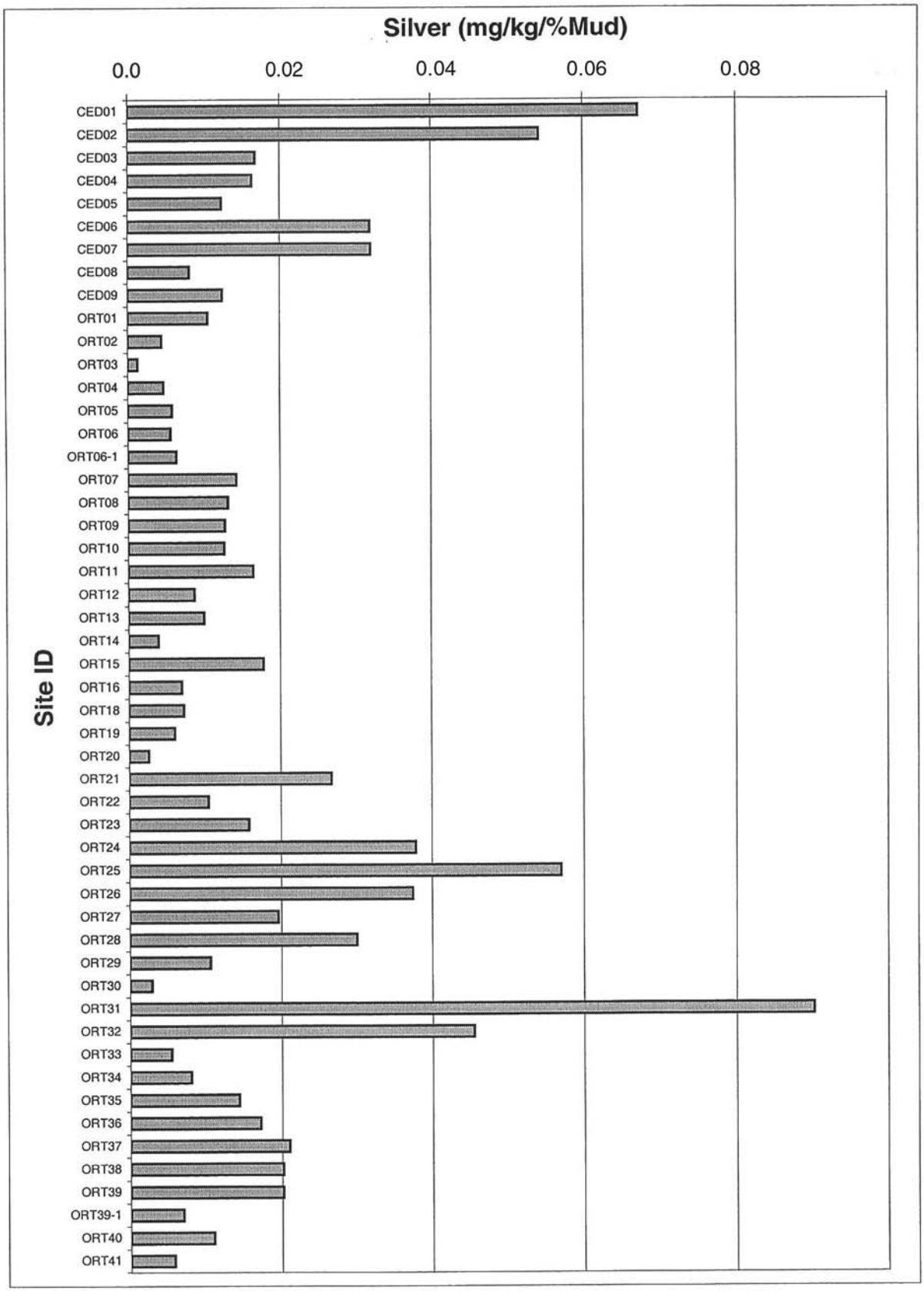
Silver (mg/kg/%Mud)
0.0
0.02
0.04
0.06
0.08
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
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ORT01
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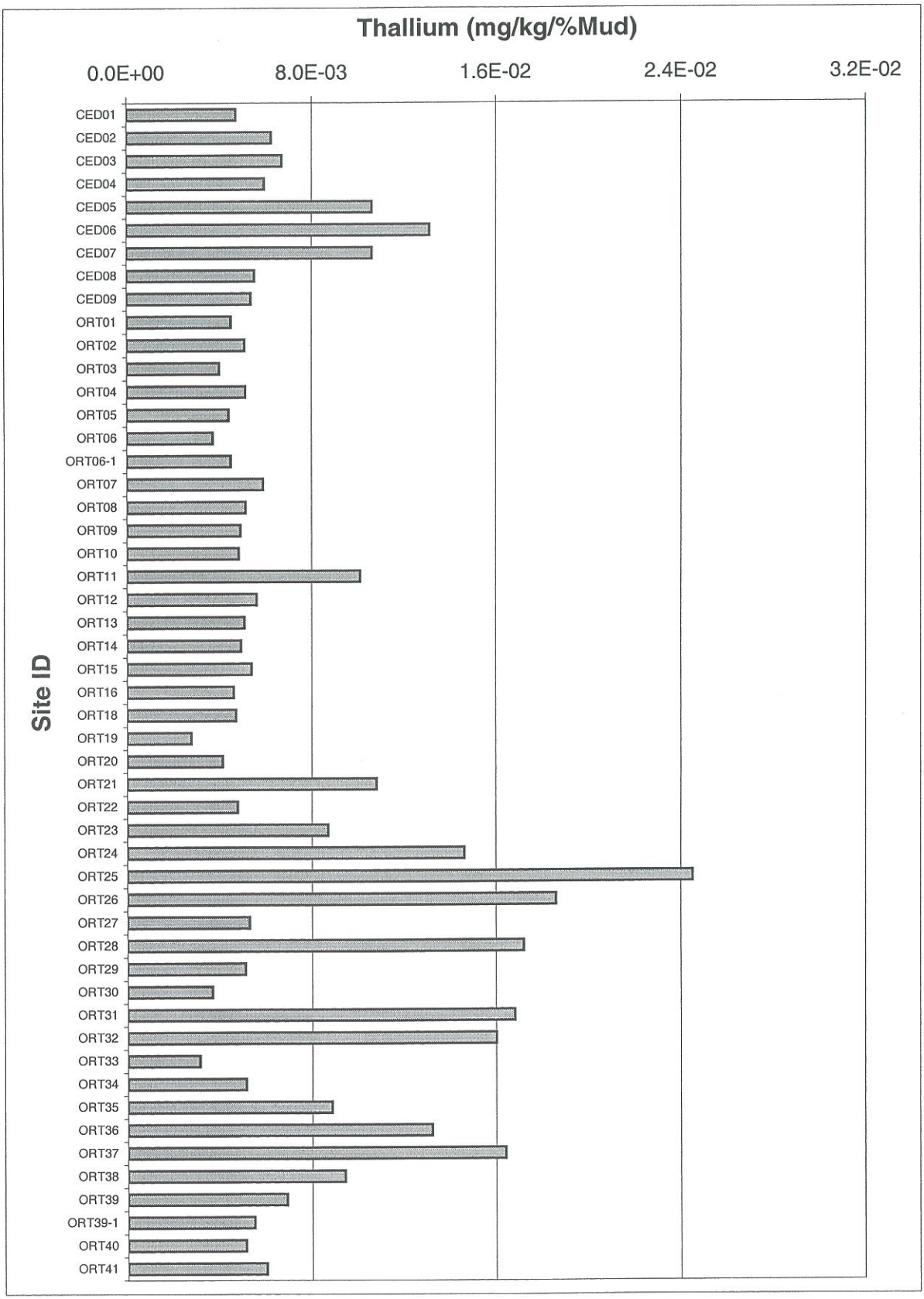
Thallium (mg/kg/%Mud)
0.0E+00
8.0E-03
1.6E-02
2.4E-02
3.2E-02
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
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ORT39-1
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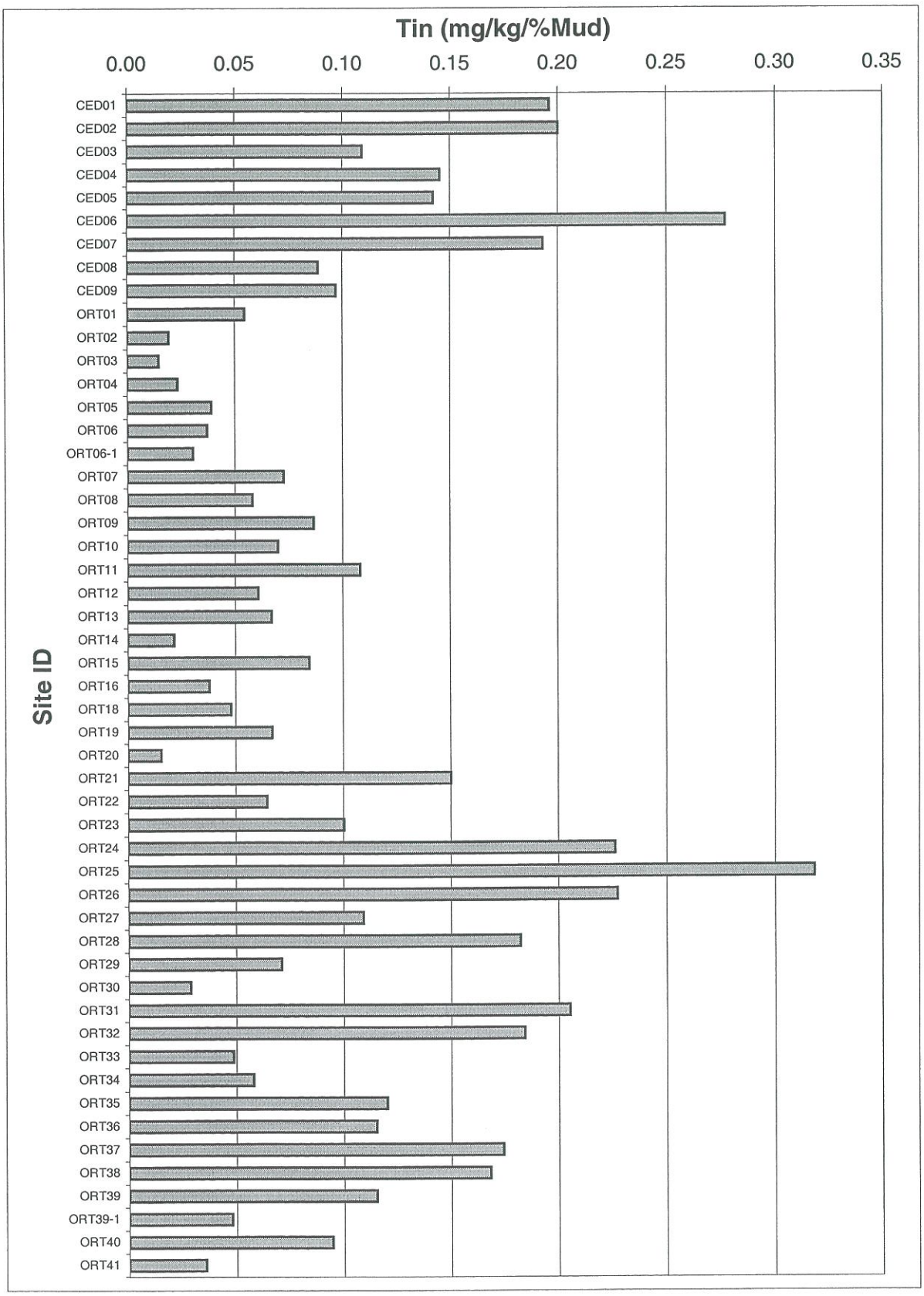
Tin (mg/kg/%Mud)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
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CED08
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ORT01
ORT02
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ORT39-1
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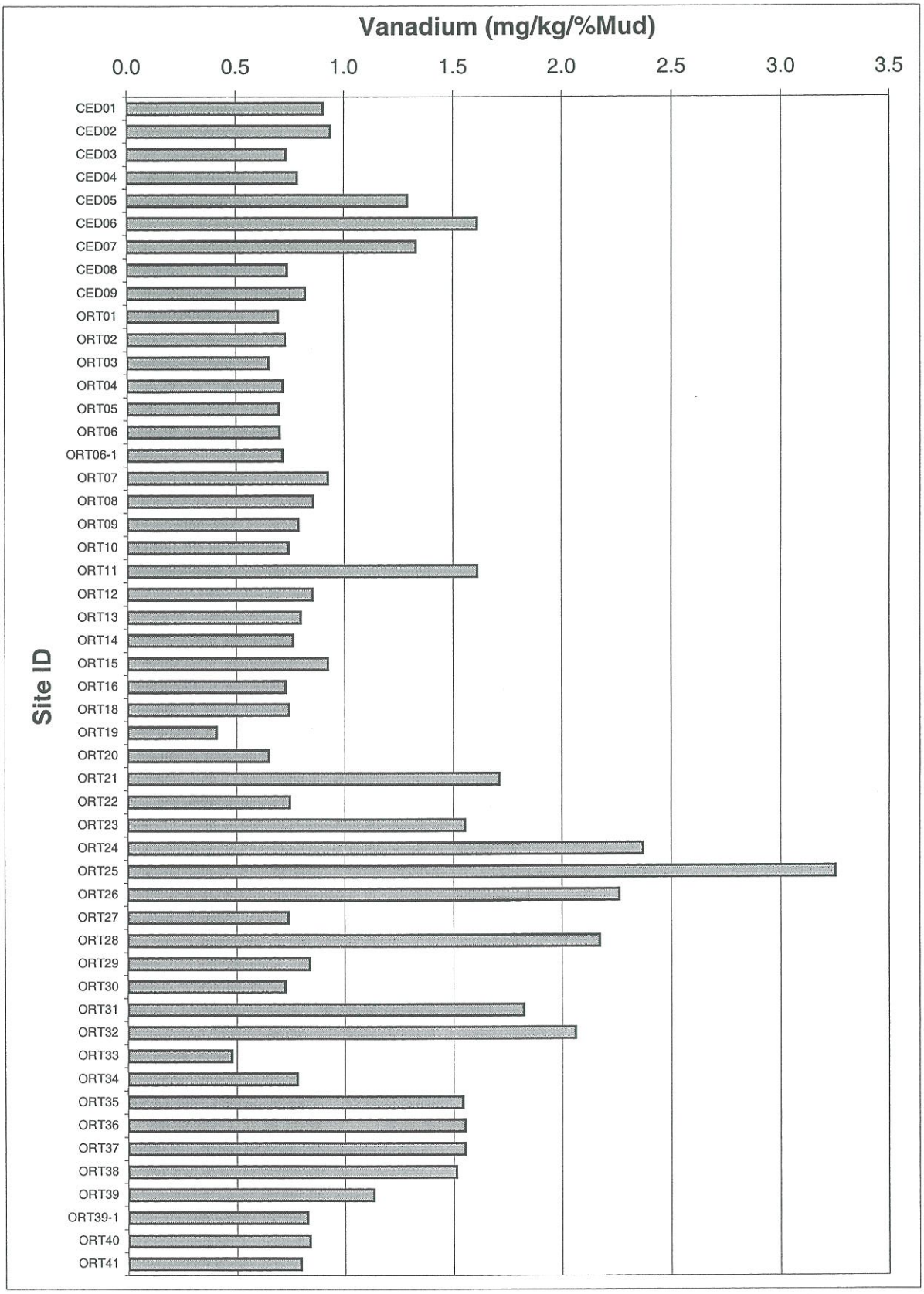
Vanadium (mg/kg/%Mud)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
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CED08
CED09
ORT01
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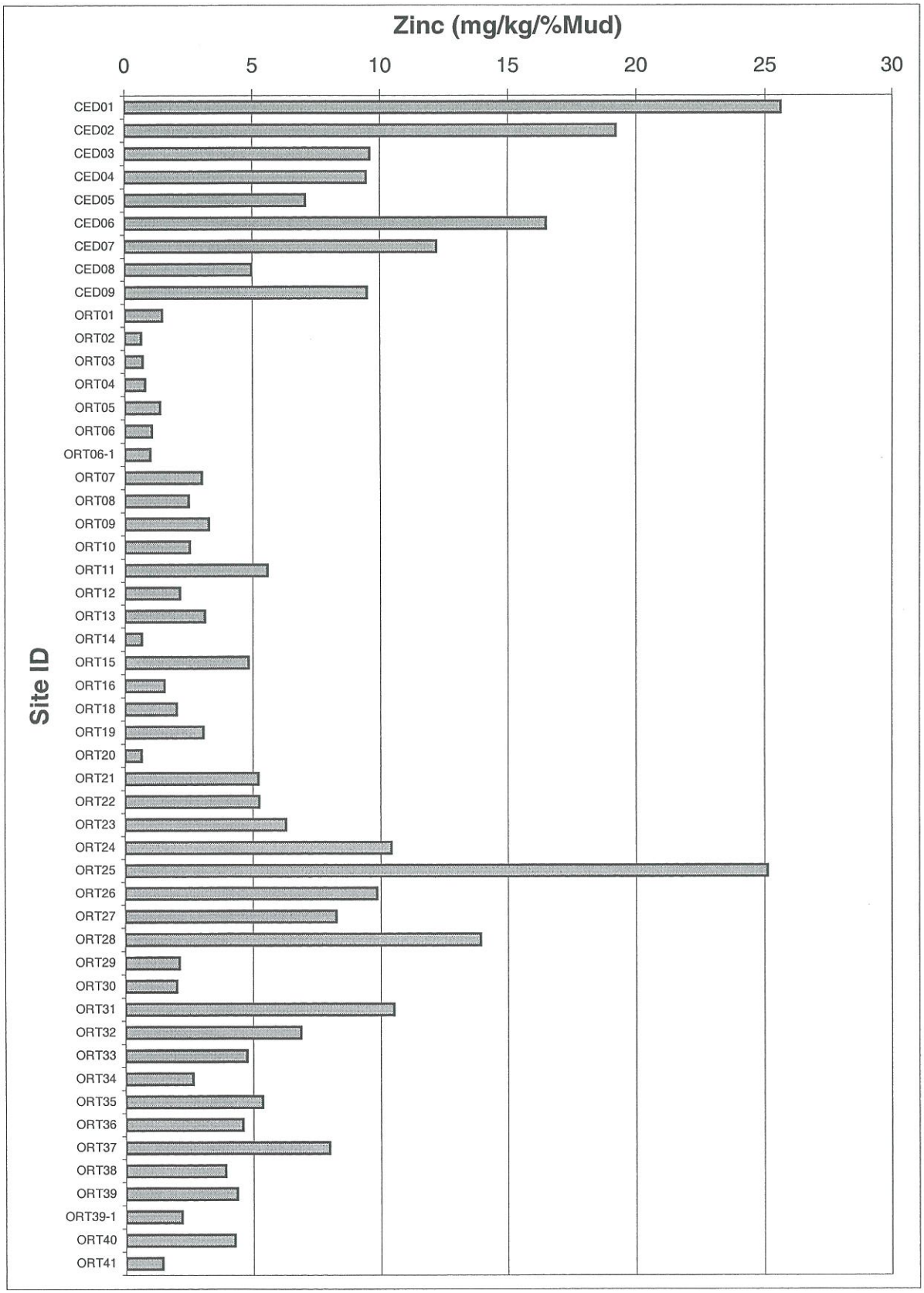
ORT39-1
ORT40
ORT41


Zinc (mg/kg/%Mud)
0
5
10
15
20
25
30
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
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ORT39-1
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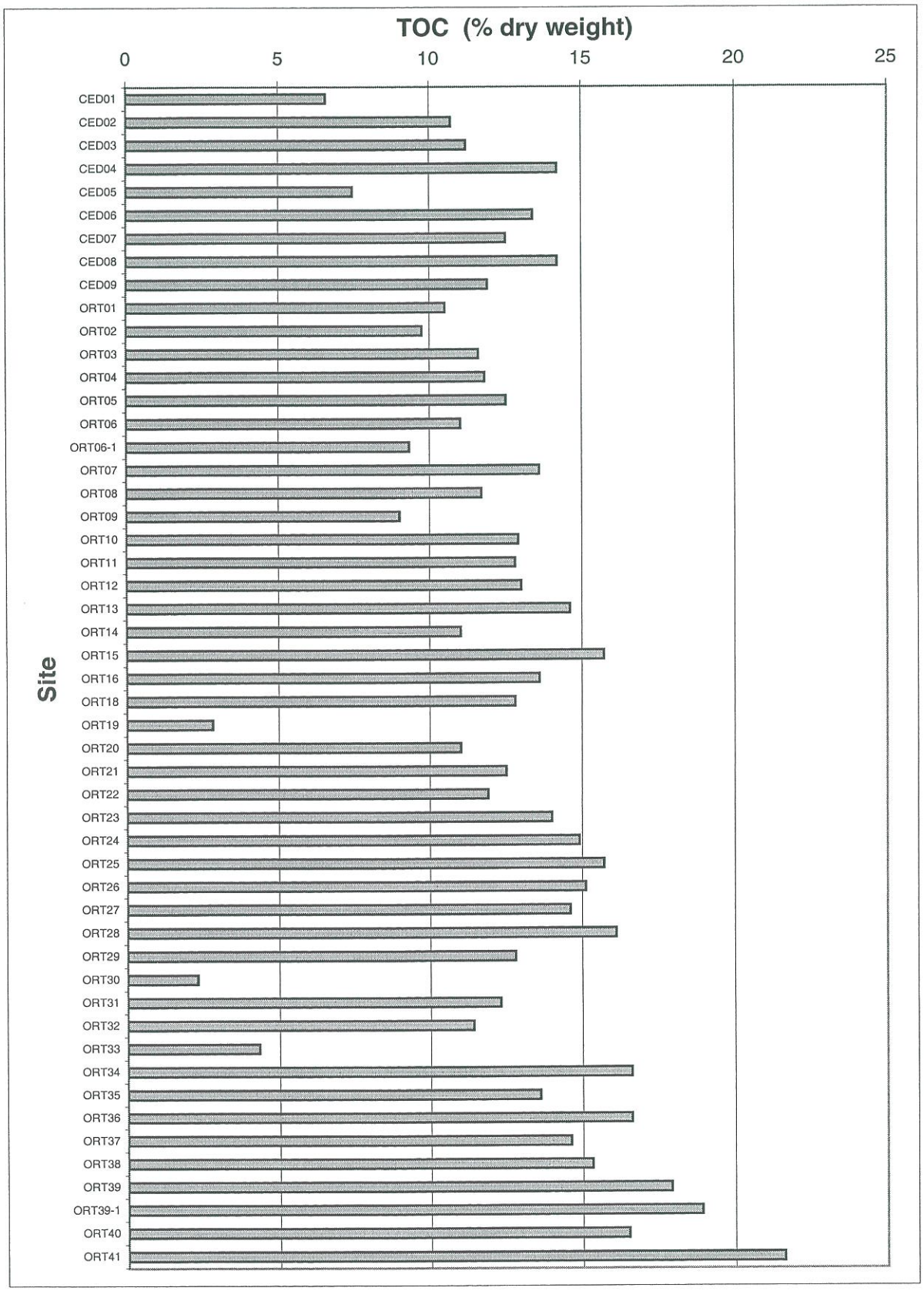
Appendix M. Charts with Surface Sediment Ancillary Measurement Data


TOC (% dry weight)
0
5
10
15
20
25
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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ORT06
ORT06-1
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ORT39-1
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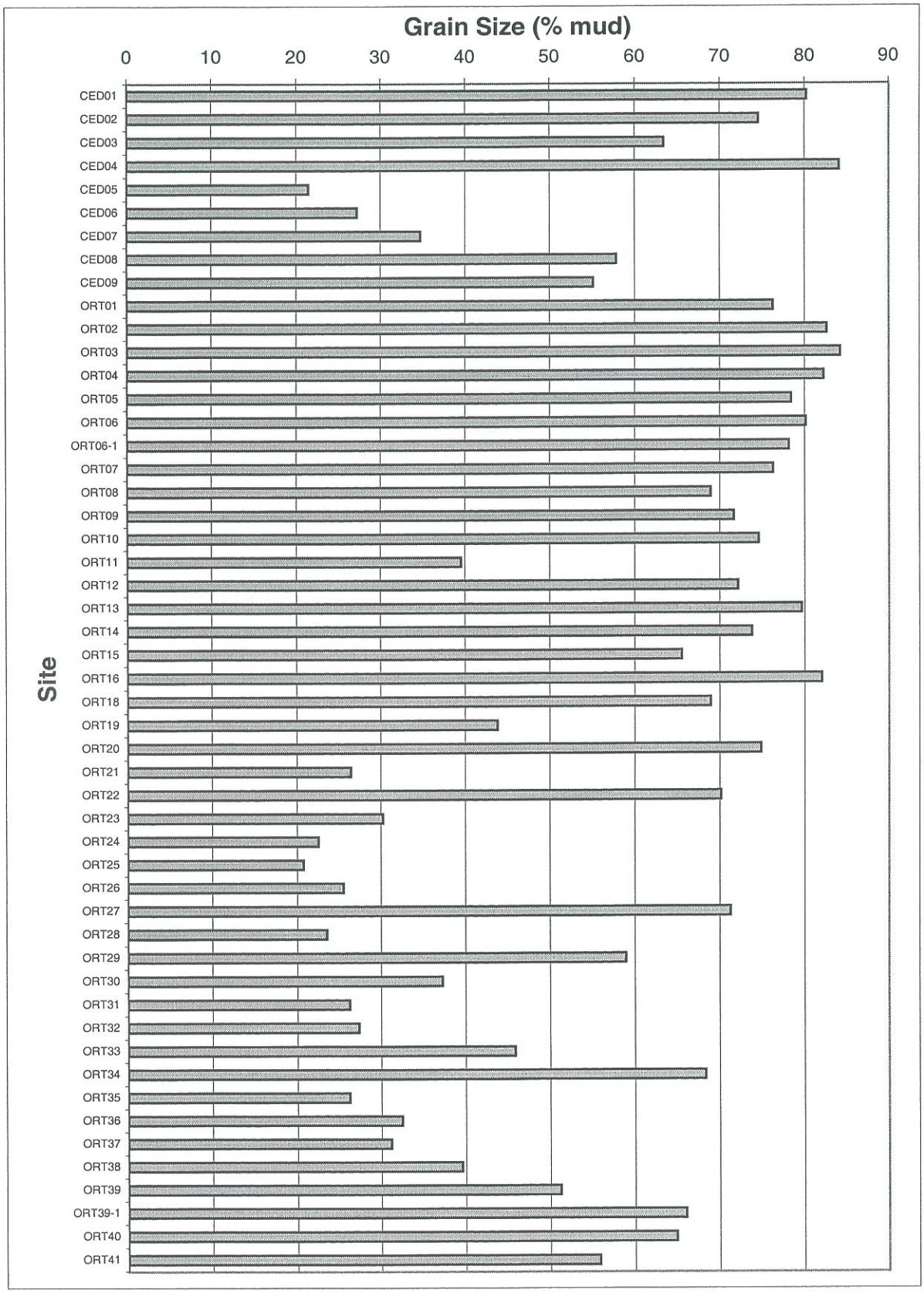
Grain Size (% mud)
0
10
20
30
40
50
60
70
80
90
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
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ORT39-1
ORT40
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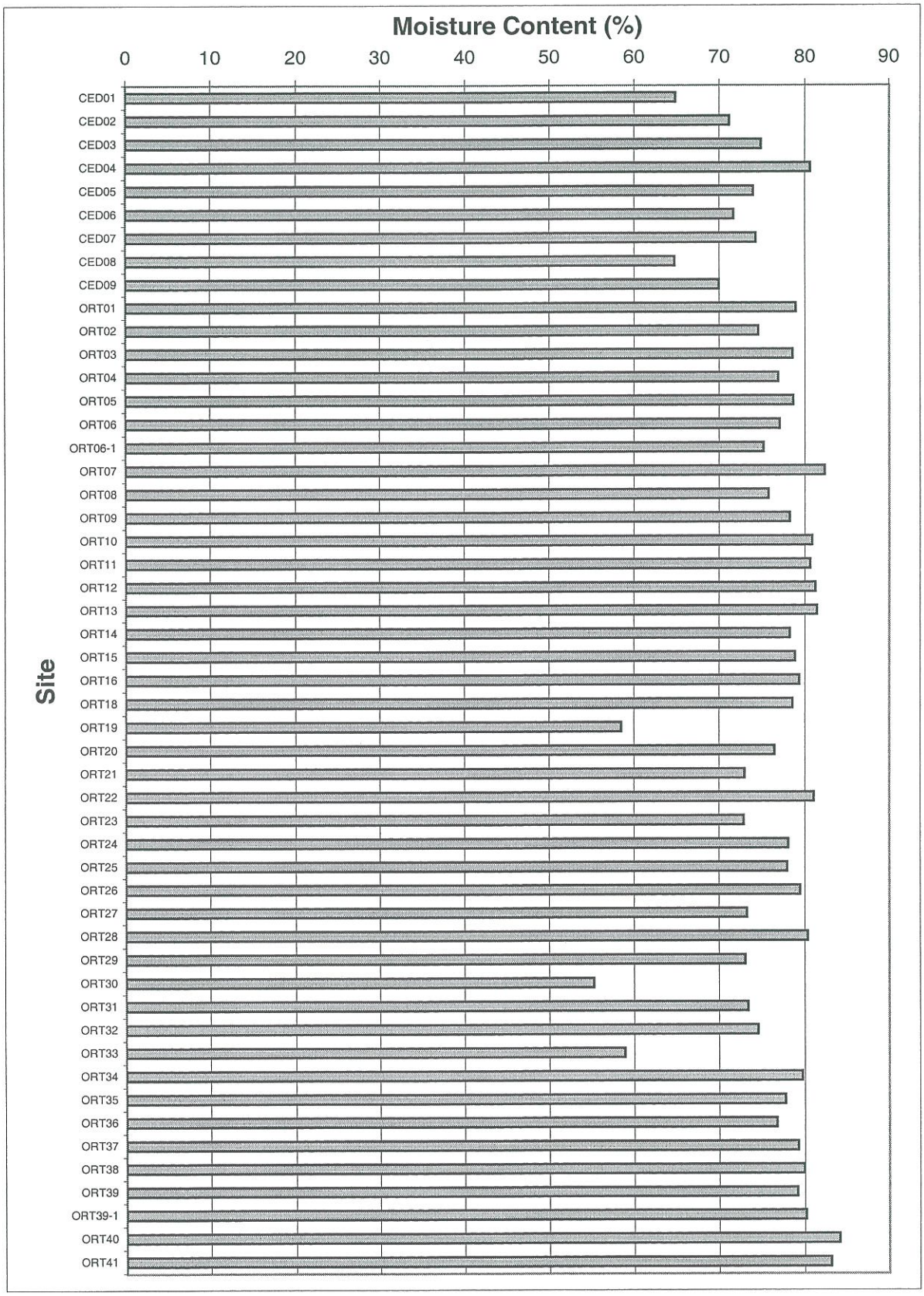
Moisture Content (%)
0
10
20
30
40
50
60
70
80
90
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
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ORT39-1
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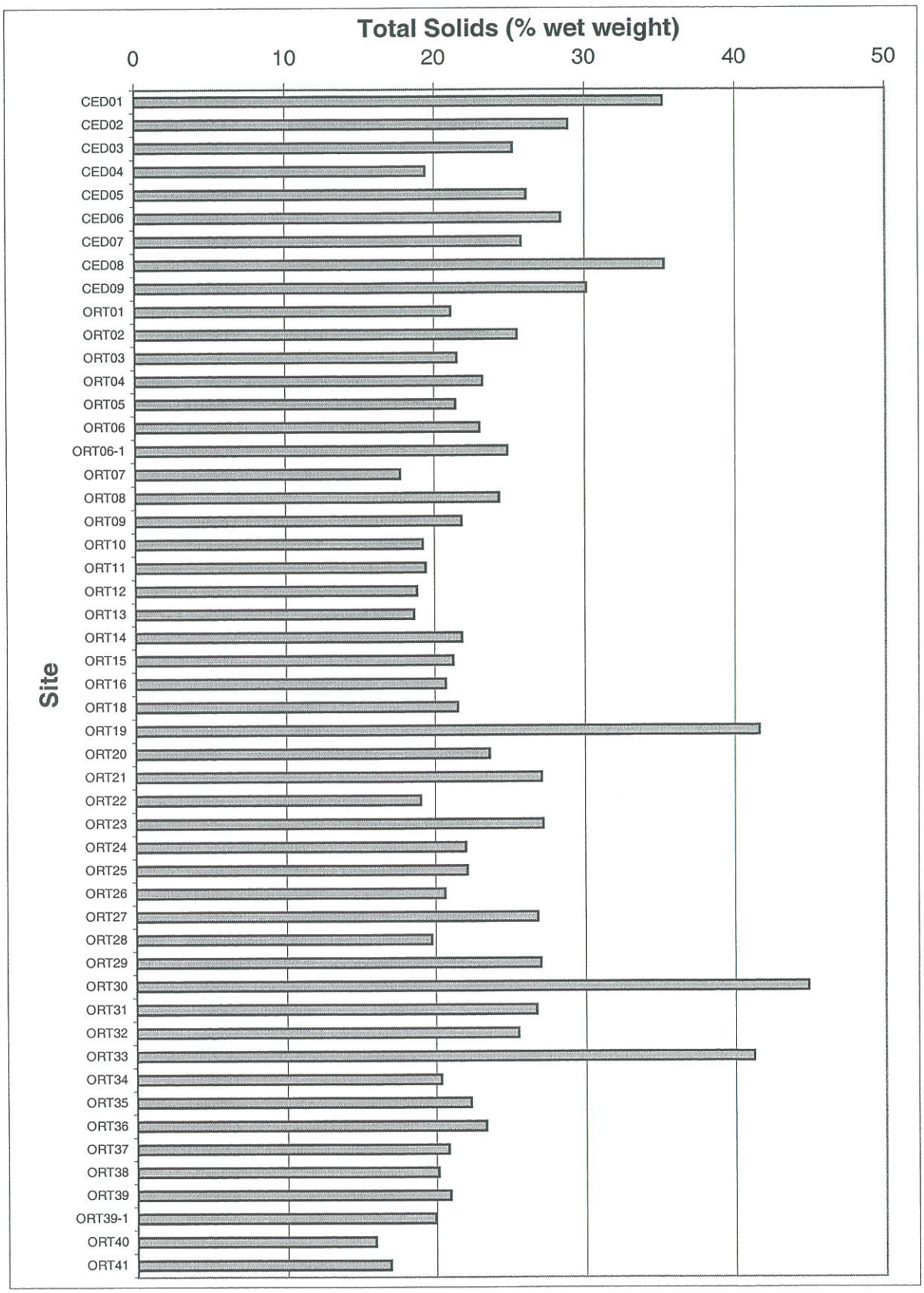
Total Solids (% wet weight)
0
10
20
30
40
50
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT06-1
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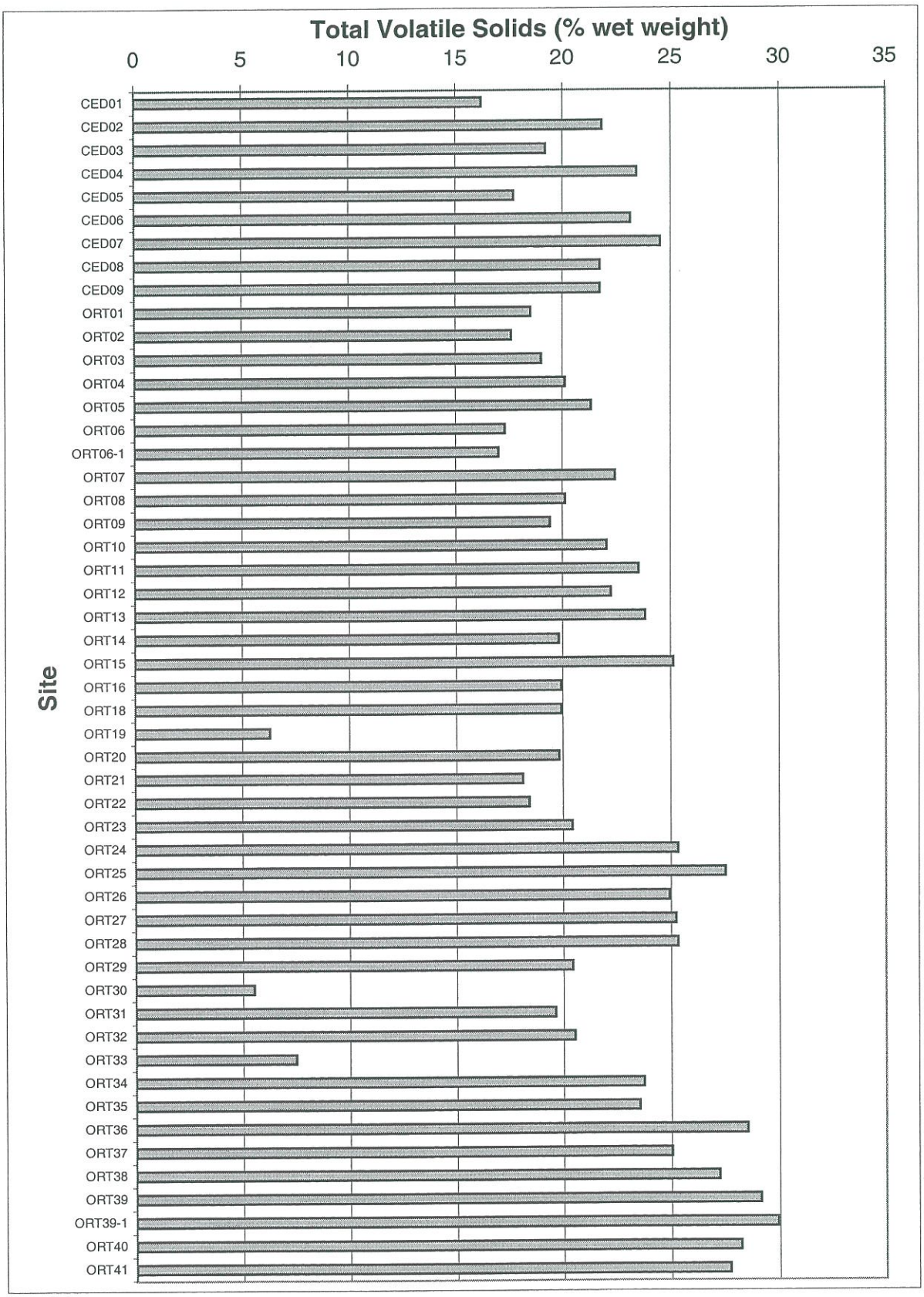
Total Volatile Solids (% wet weight)
0
5
10
15
20
25
30
35
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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ORT39-1
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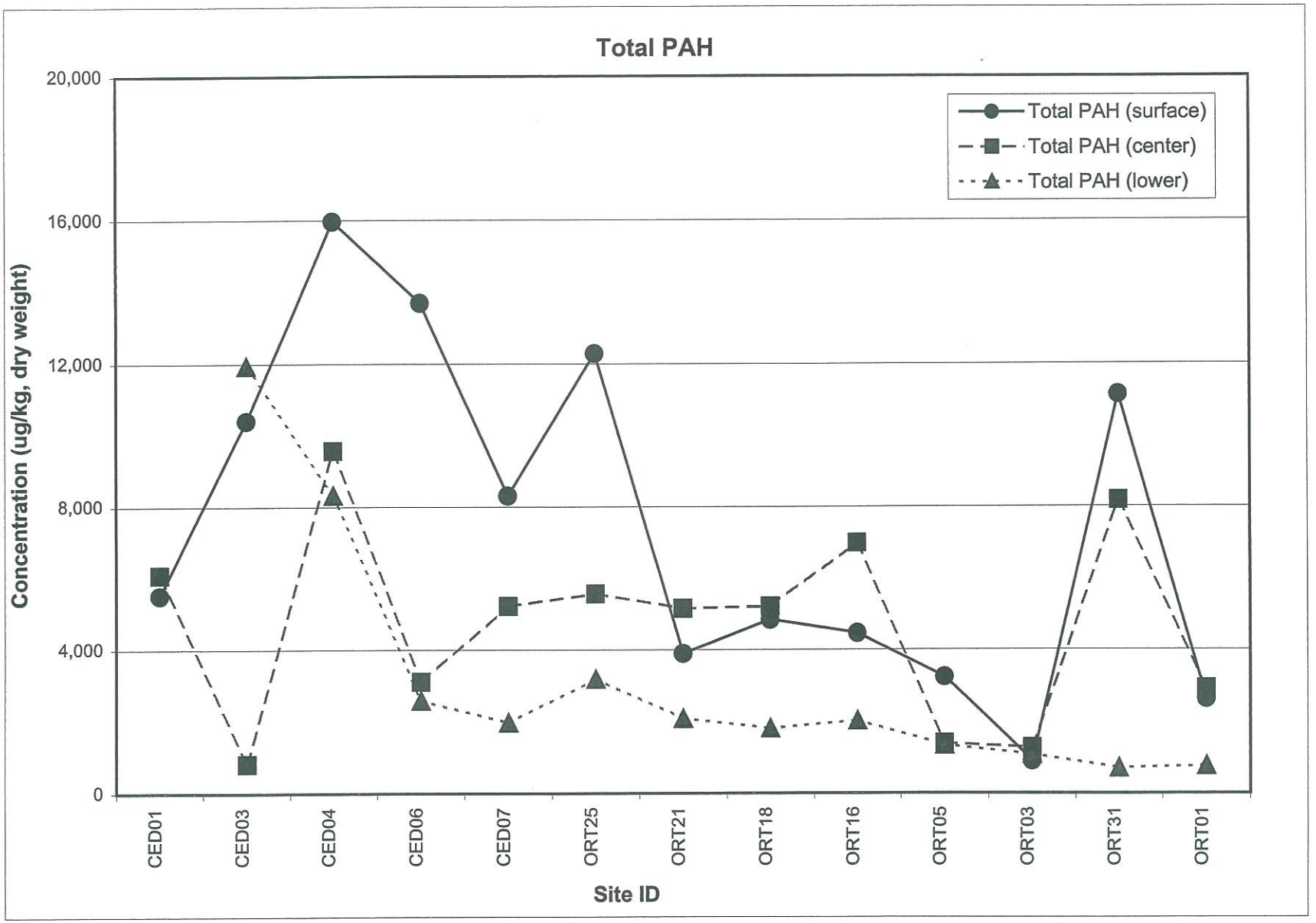
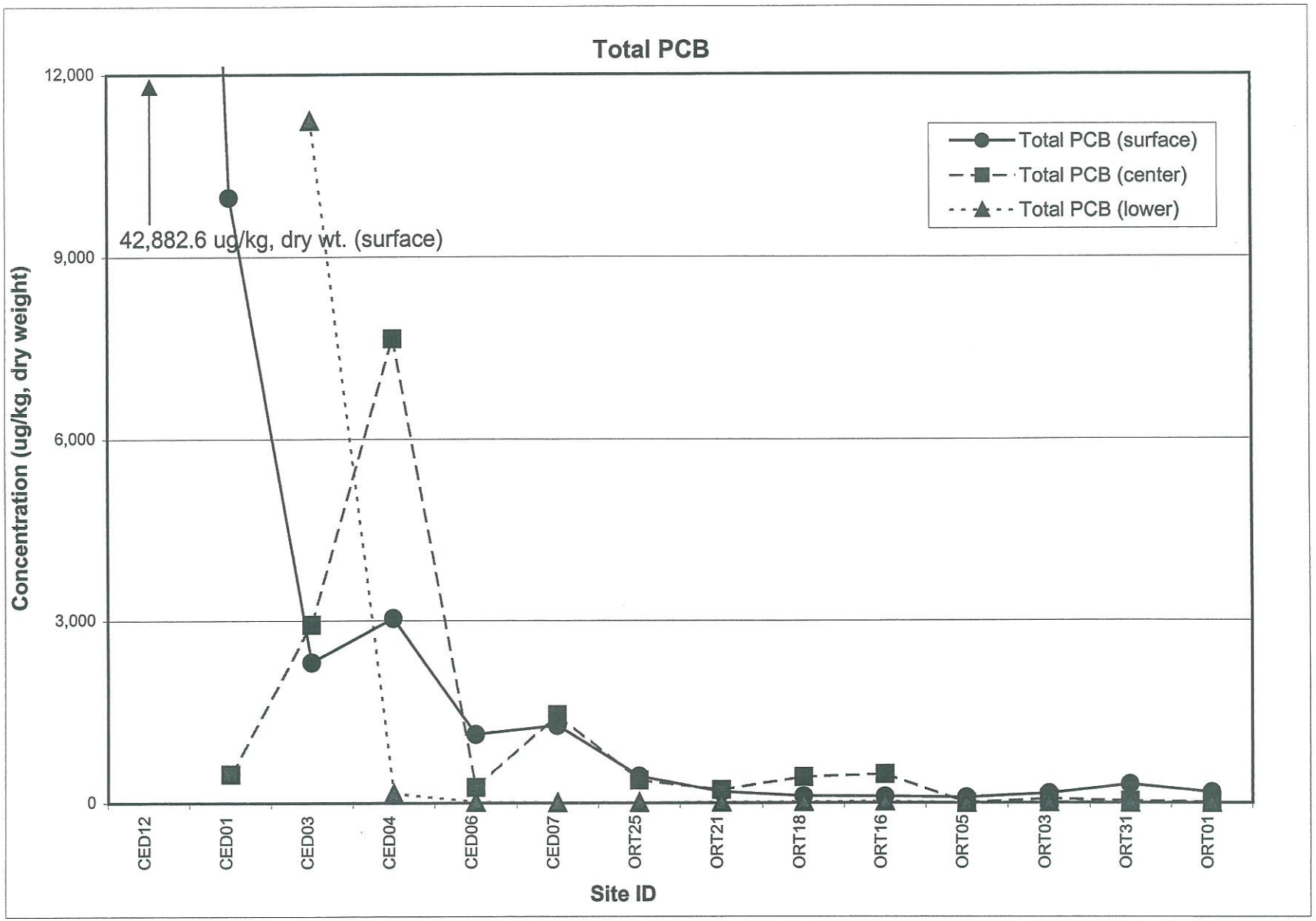
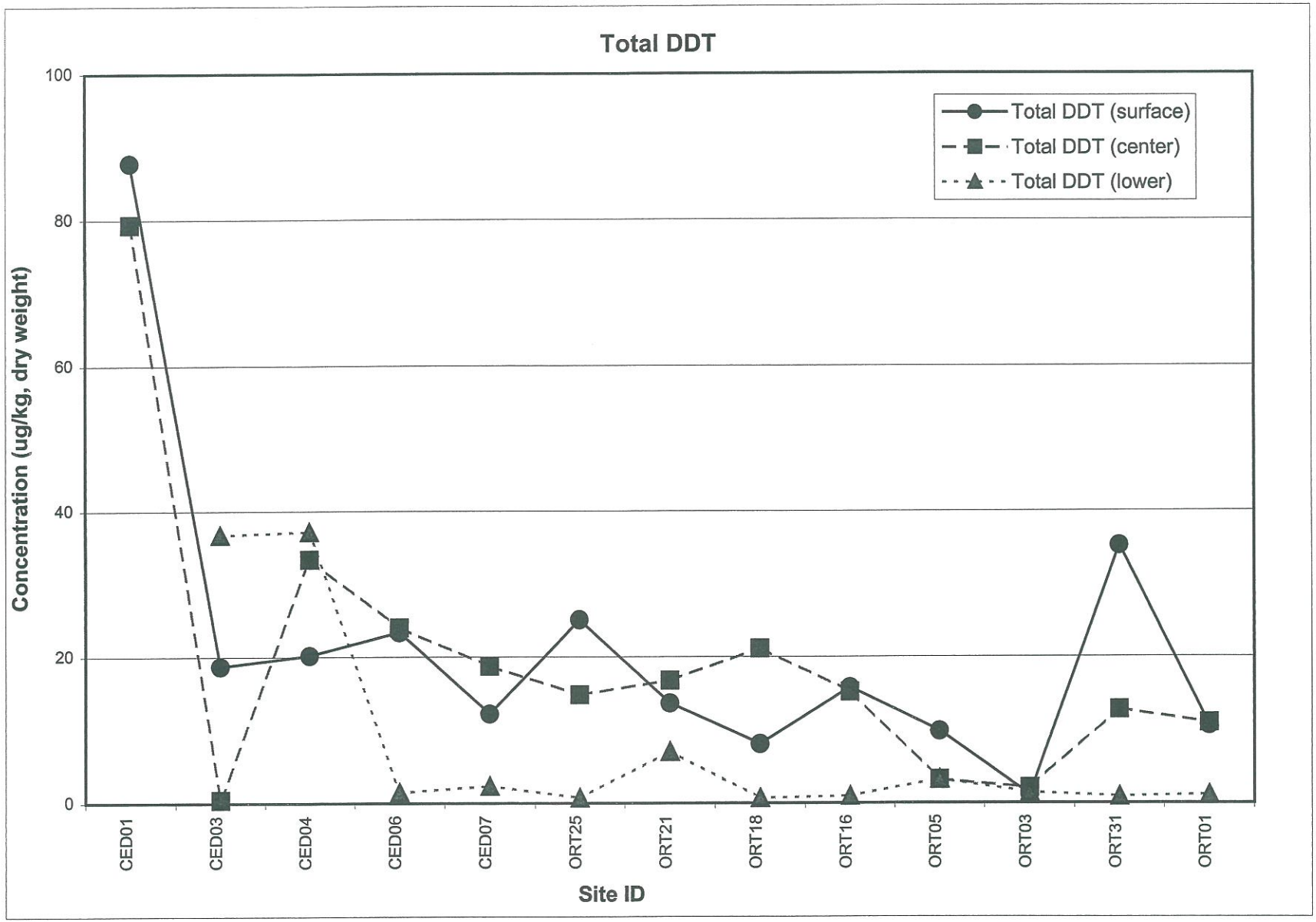
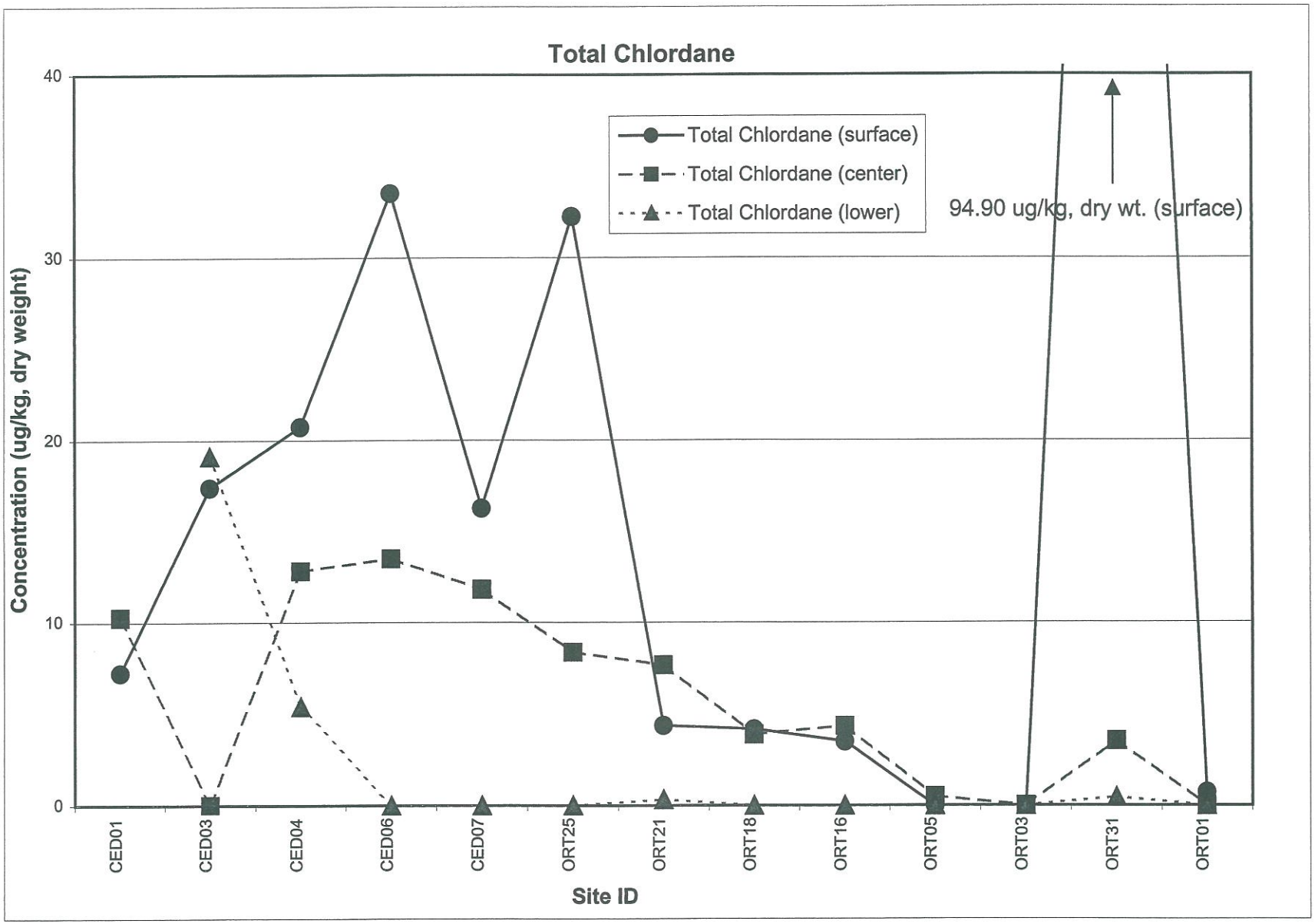
ORT41

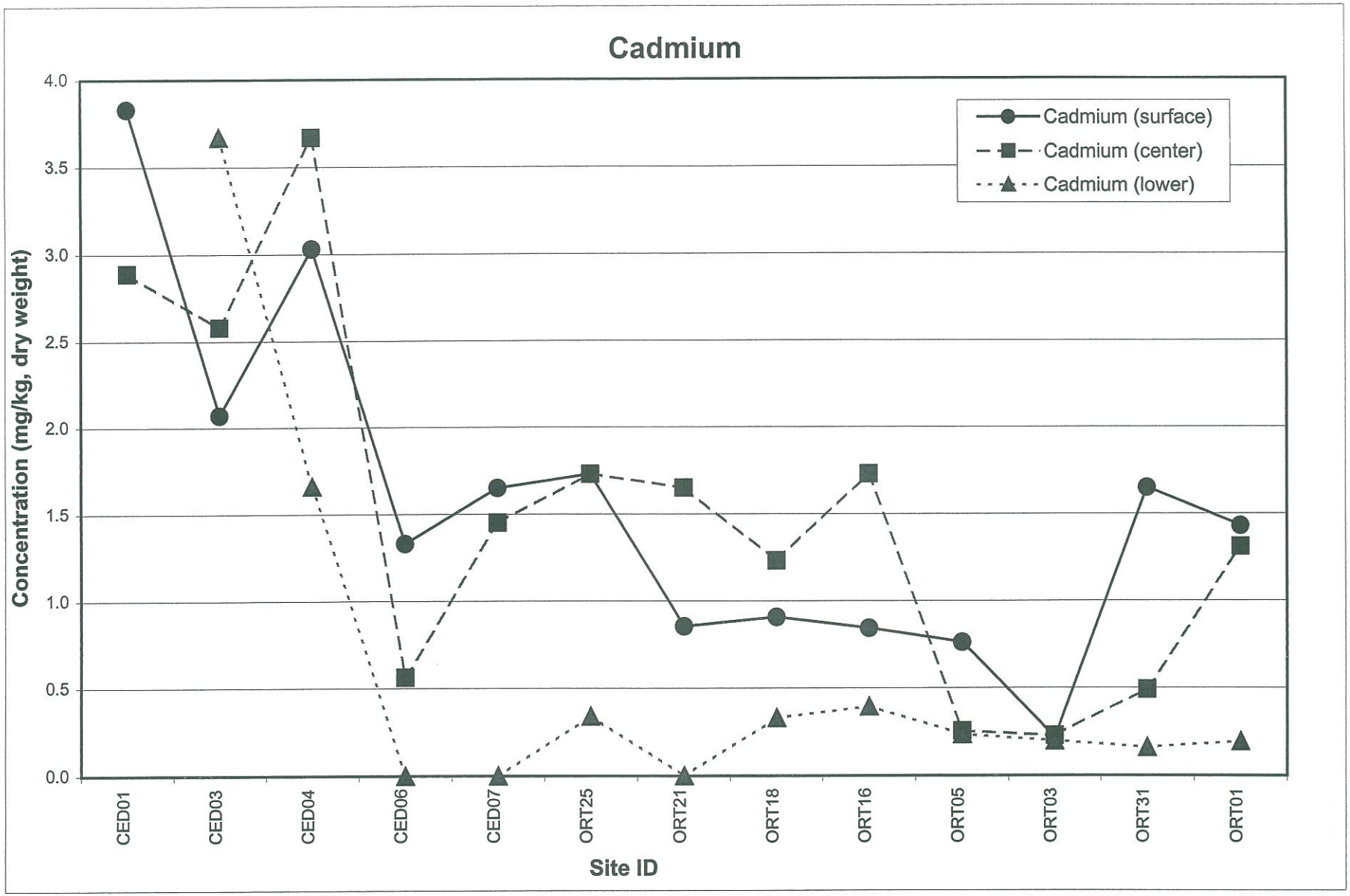
Appendix N. Charts with Concentration of Key Contaminants at Different Sediment Depths and Sites

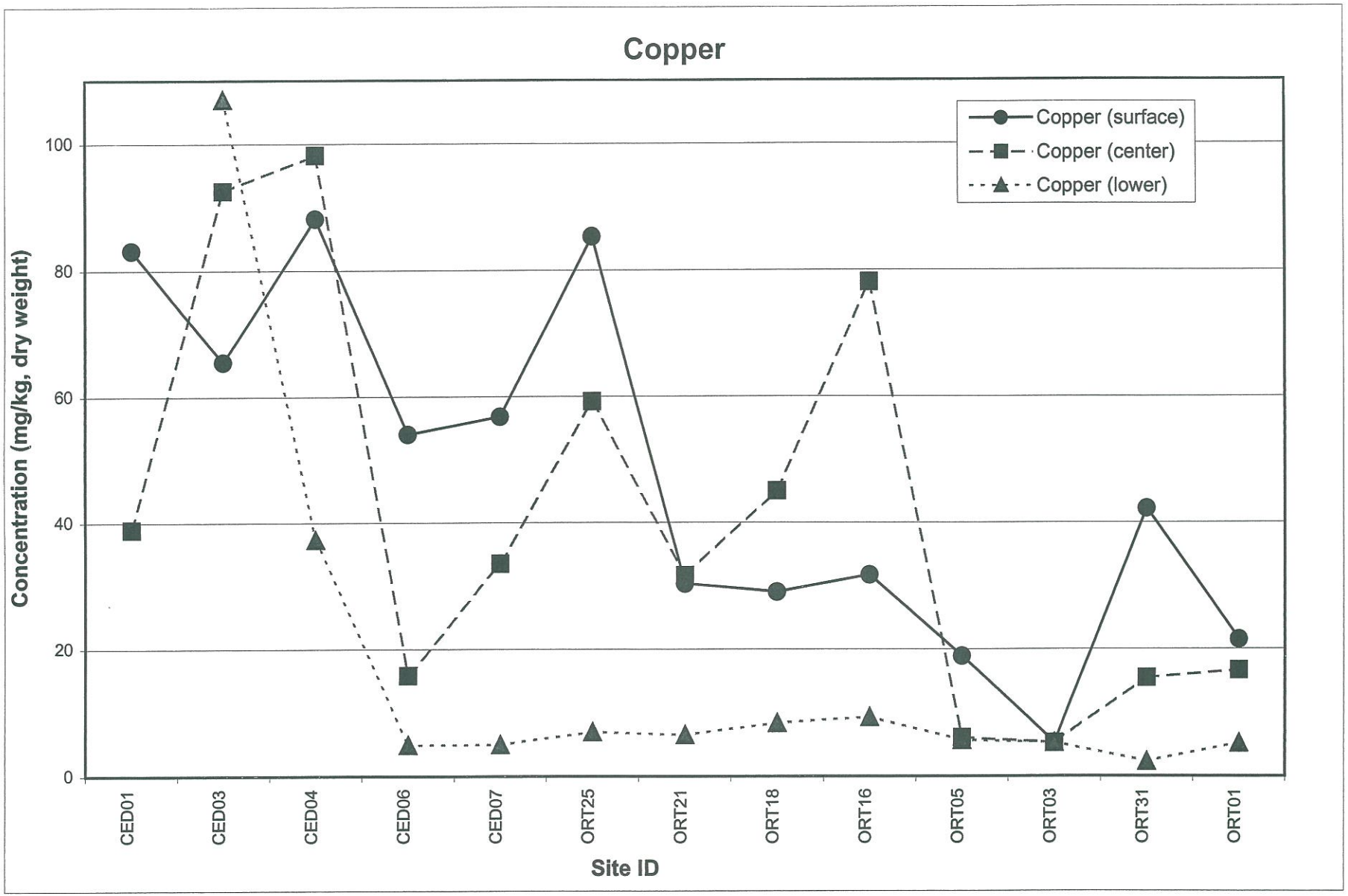

Total PAH
Total PAH (surface)
Total PAH (center)
Total PAH (lower)
Concentration (ug/kg, dry weight)
20,000
16,000
12,000
8,000
4,000
0
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

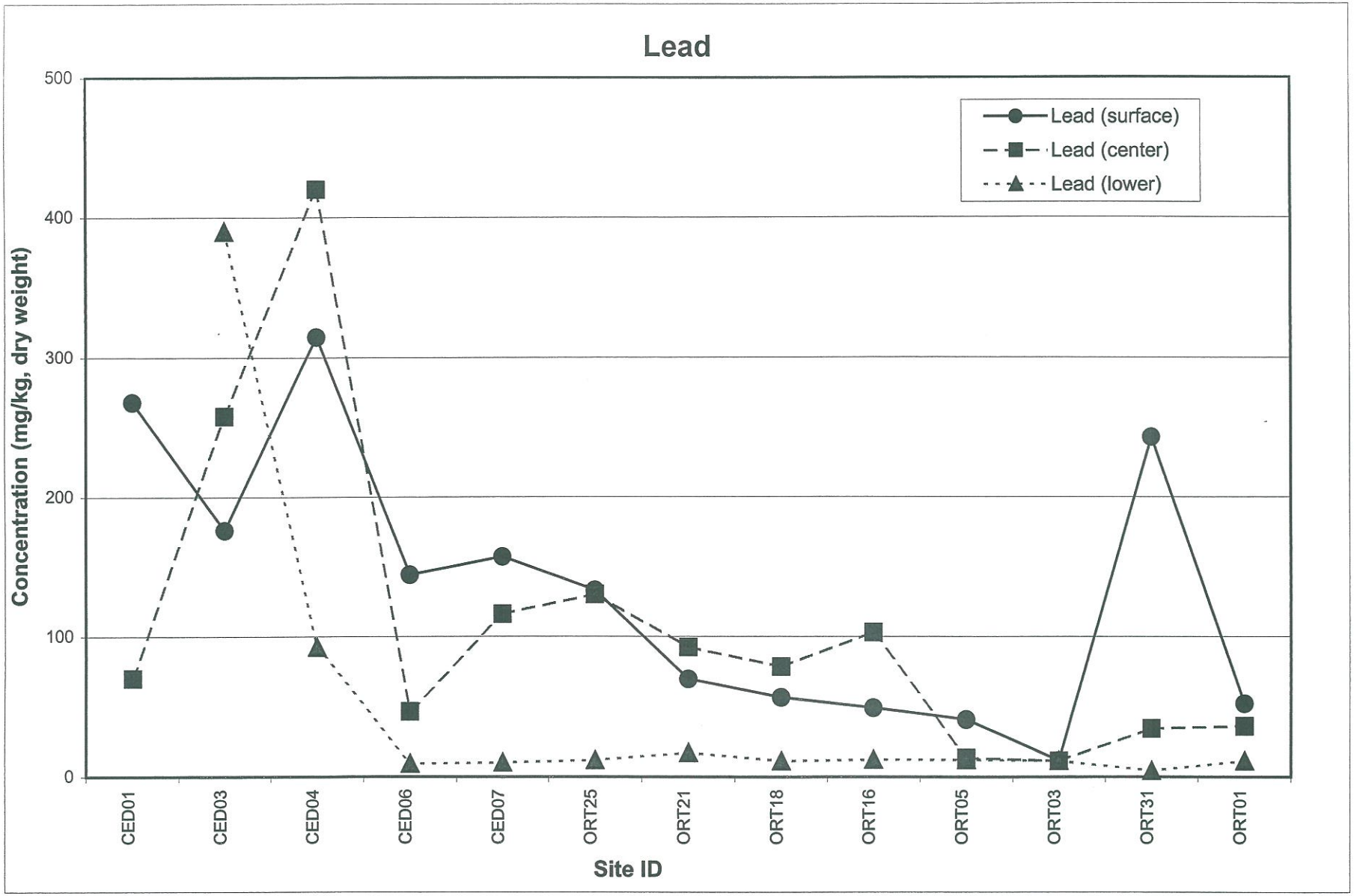

Total PCB
12,000
9,000
6,000
3,000
0
Concentration (ug/kg, dry weight)
42,882.6 ug/kg, dry wt. (surface)
Total PCB (surface)
Total PCB (center)
Total PCB (lower)
CED12
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

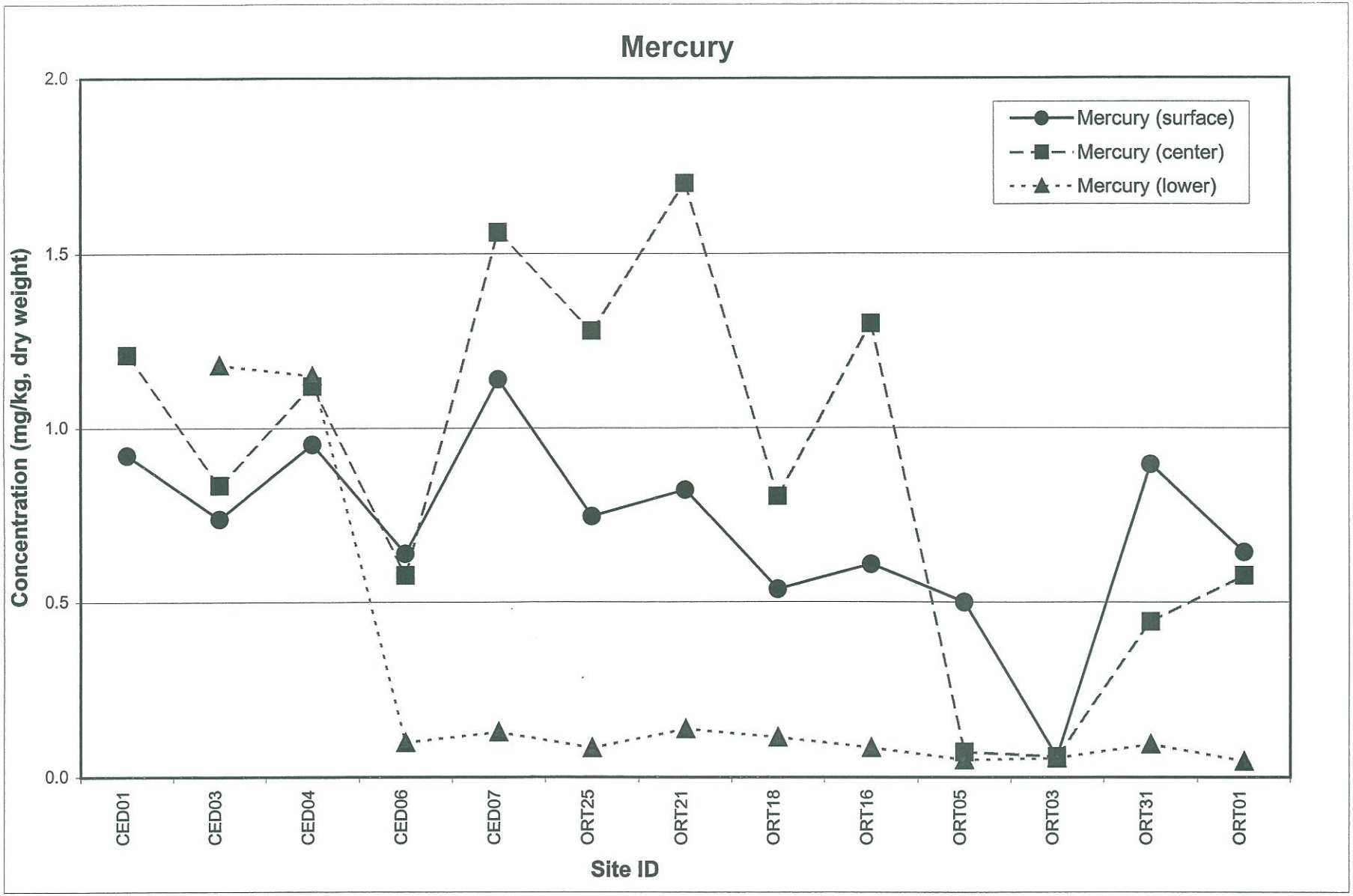

Total DDT
Total DDT (surface)
Total DDT (center)
Total DDT (lower)
Concentration (ug/kg, dry weight)
100
80
60
40
20
0
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

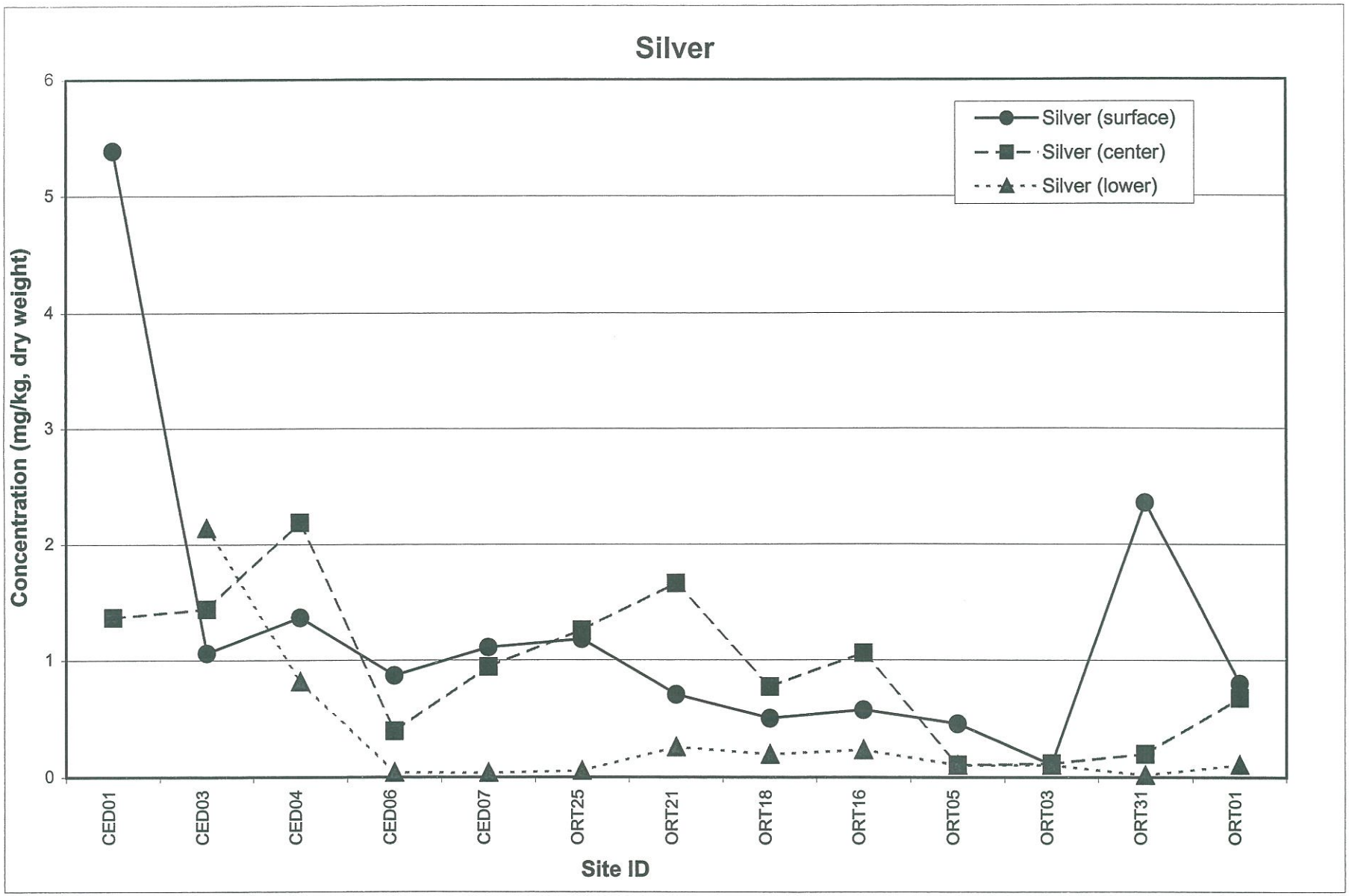

Total Chlordane
Total Chlordane (surface)
Total Chlordane (center)
Total Chlordane (lower)
94.90 ug/kg, dry wt. (surface)
Concentration (ug/kg, dry weight)
40
30
20
10
0
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

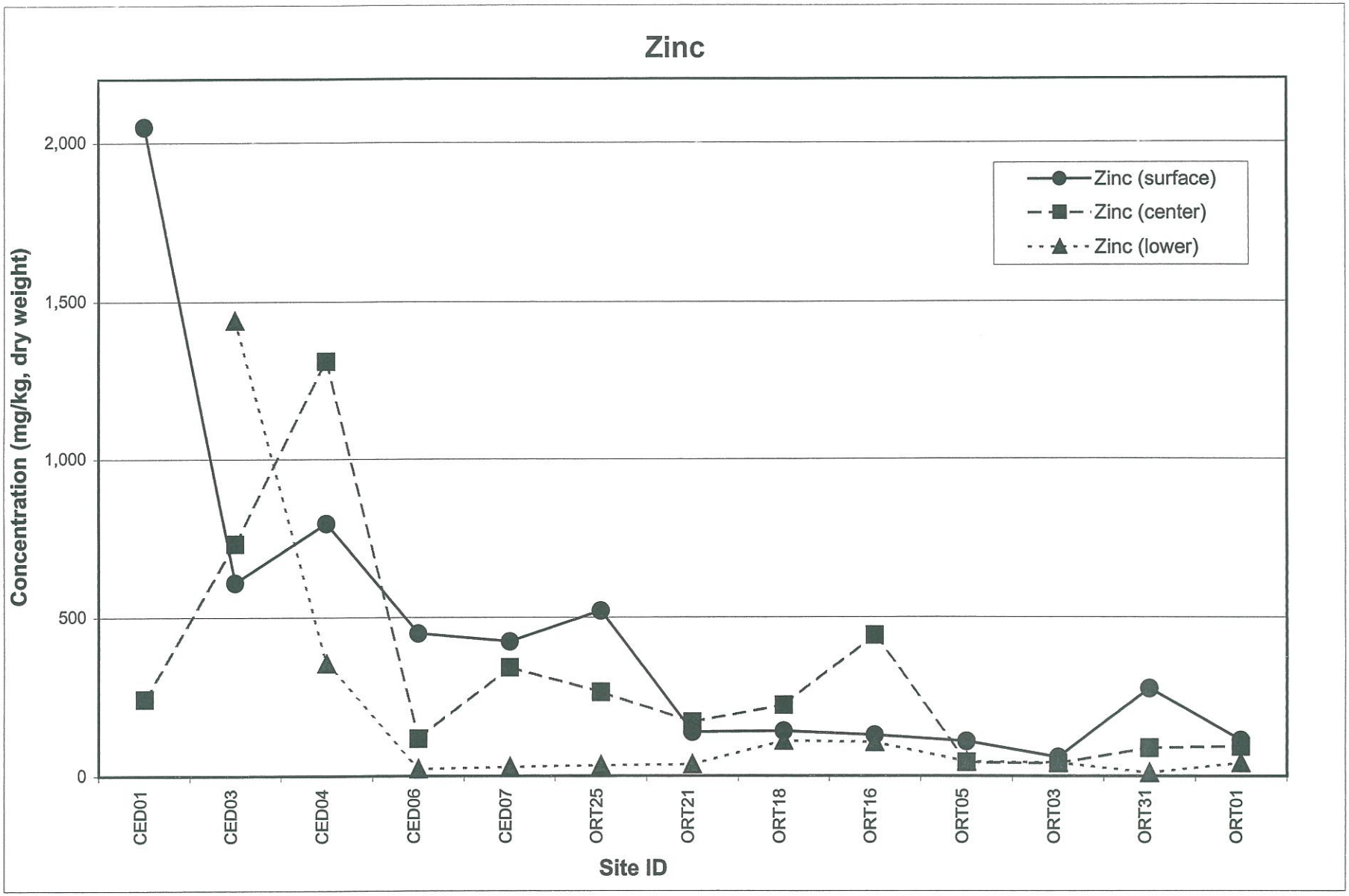

Cadmium
Cadmium (surface)
Cadmium (center)
Cadmium (lower)
Concentration (mg/kg, dry weight)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID


Copper
Copper (surface)
Copper (center)
Copper (lower)
Concentration (mg/kg, dry weight)
0
20
40
60
80
100
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

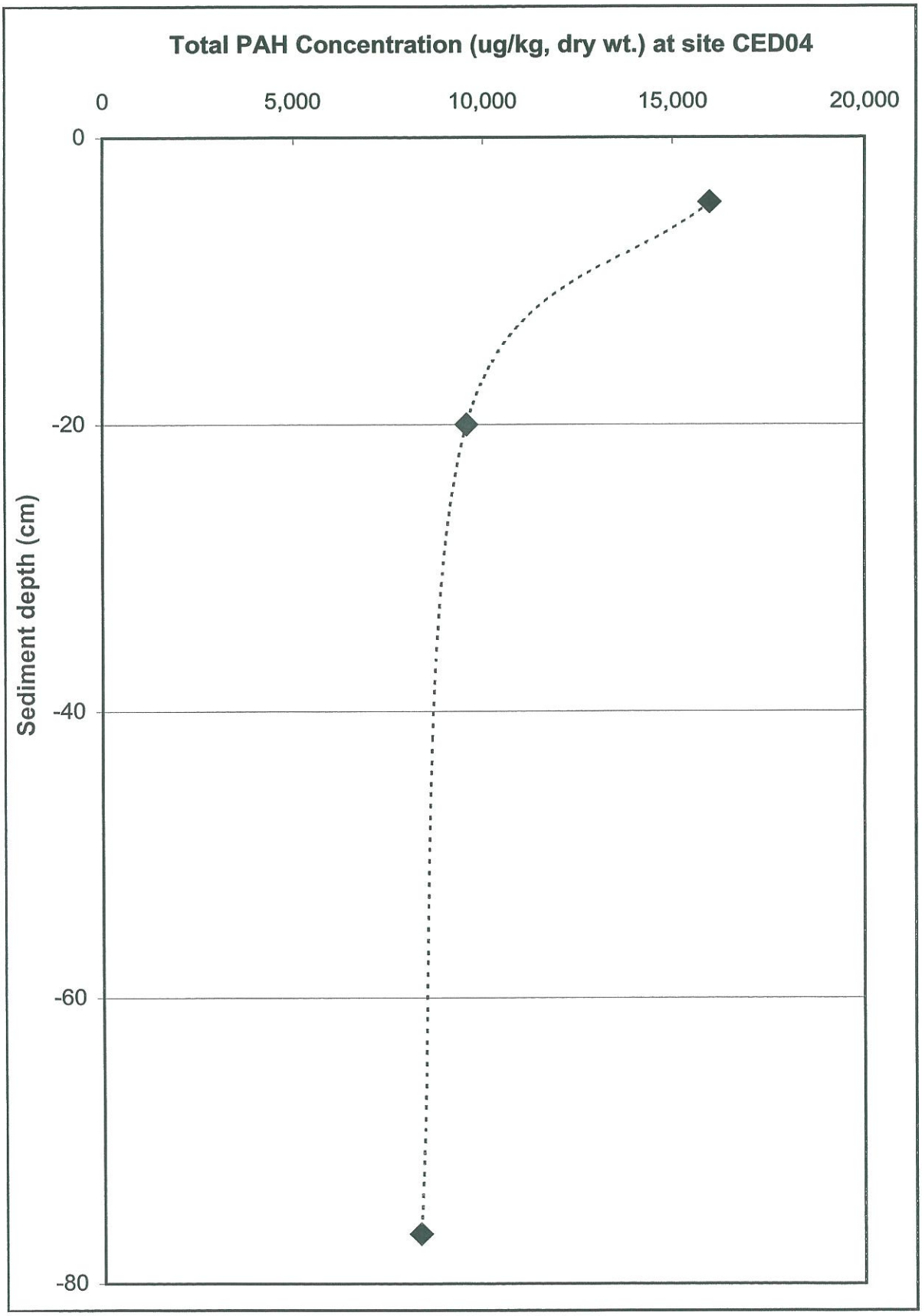

Lead
Lead (surface)
Lead (center)
Lead (lower)
Concentration (mg/kg, dry weight)
500
400
300
200
100
0
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

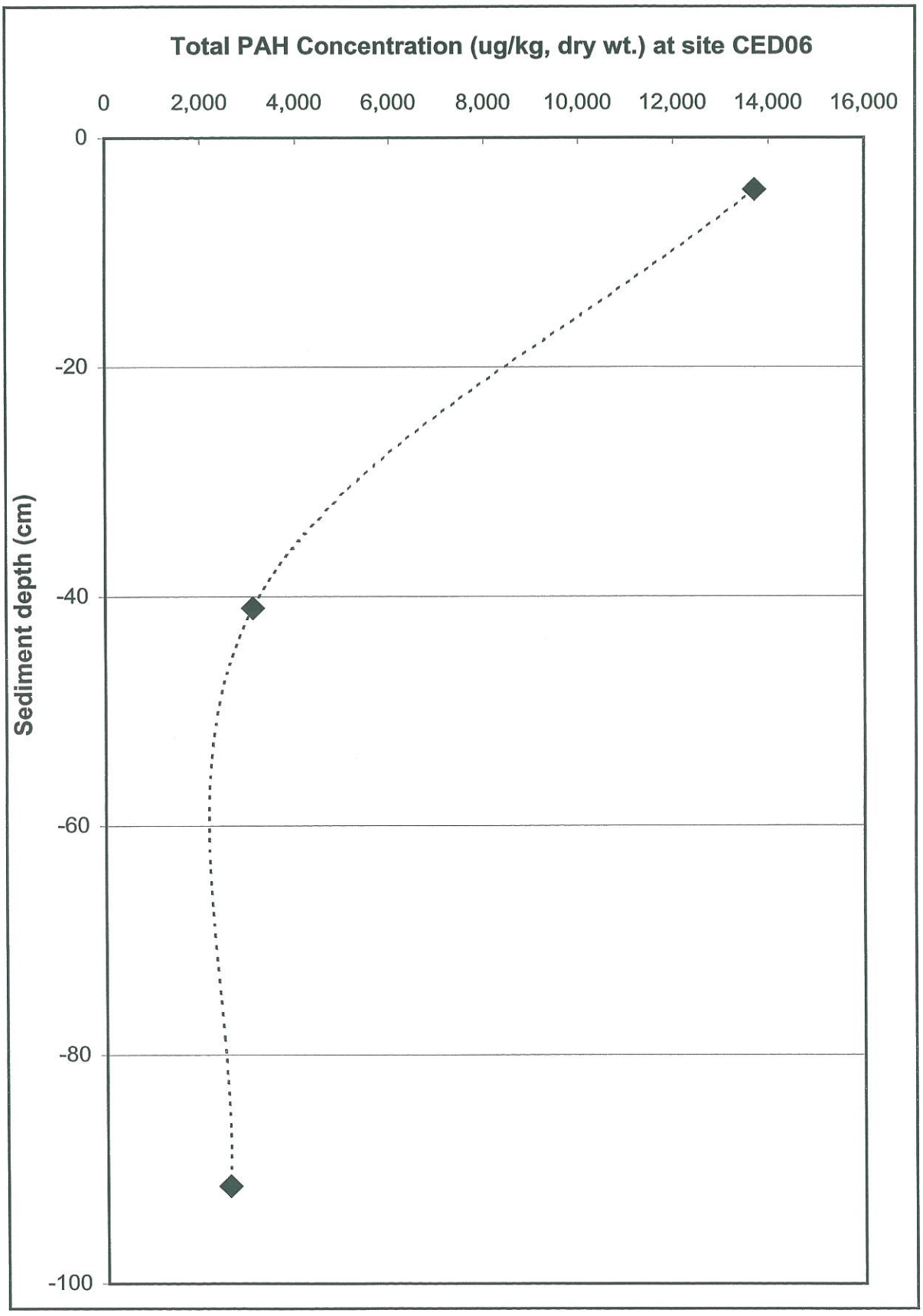

Mercury
Concentration (mg/kg, dry weight)
2.0
1.5
1.0
0.5
0.0
Mercury (surface)
Mercury (center)
Mercury (lower)
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

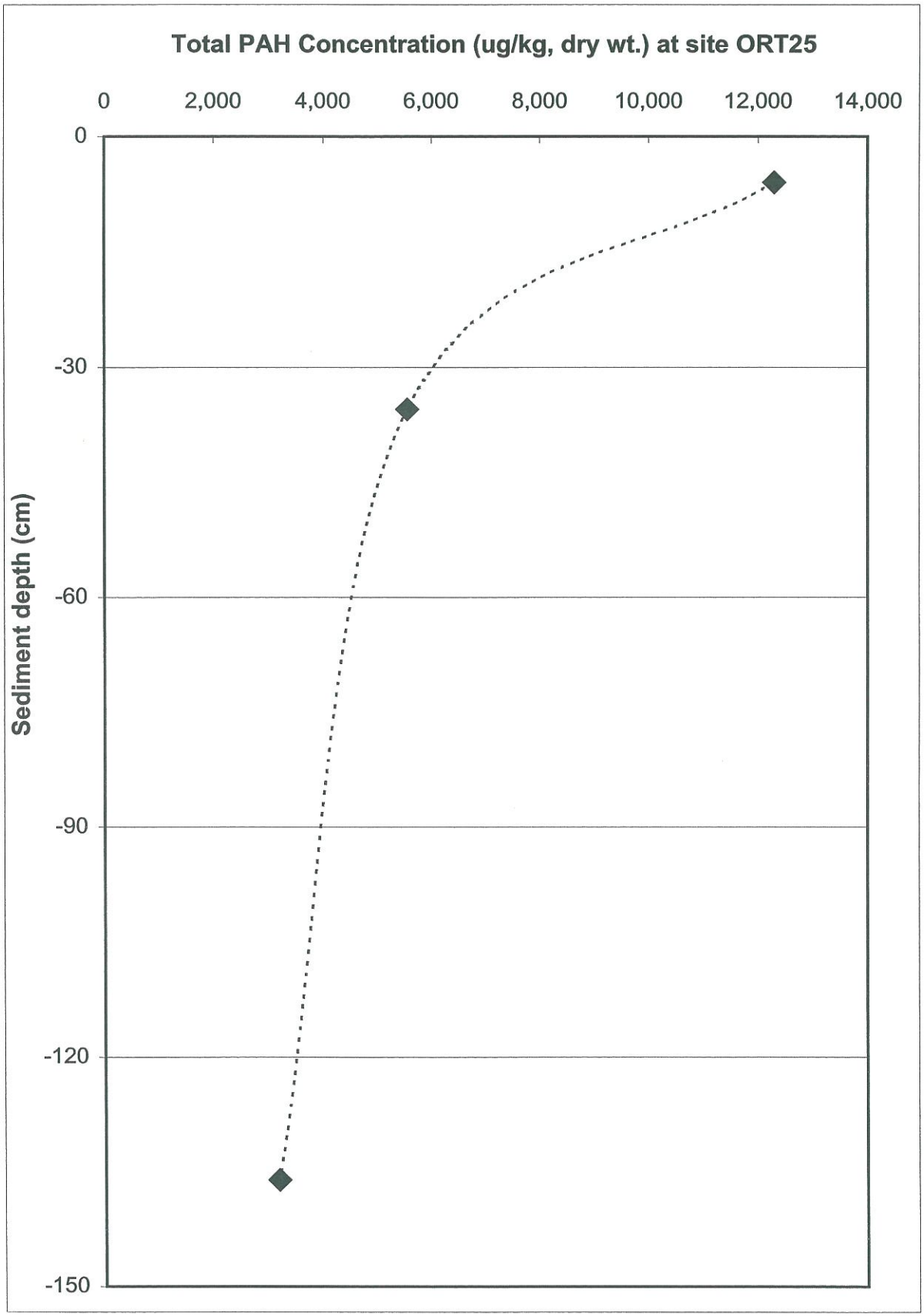

Silver
Silver (surface)
Silver (center)
Silver (lower)
Concentration (mg/kg, dry weight)
0
1
2
3
4
5
6
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

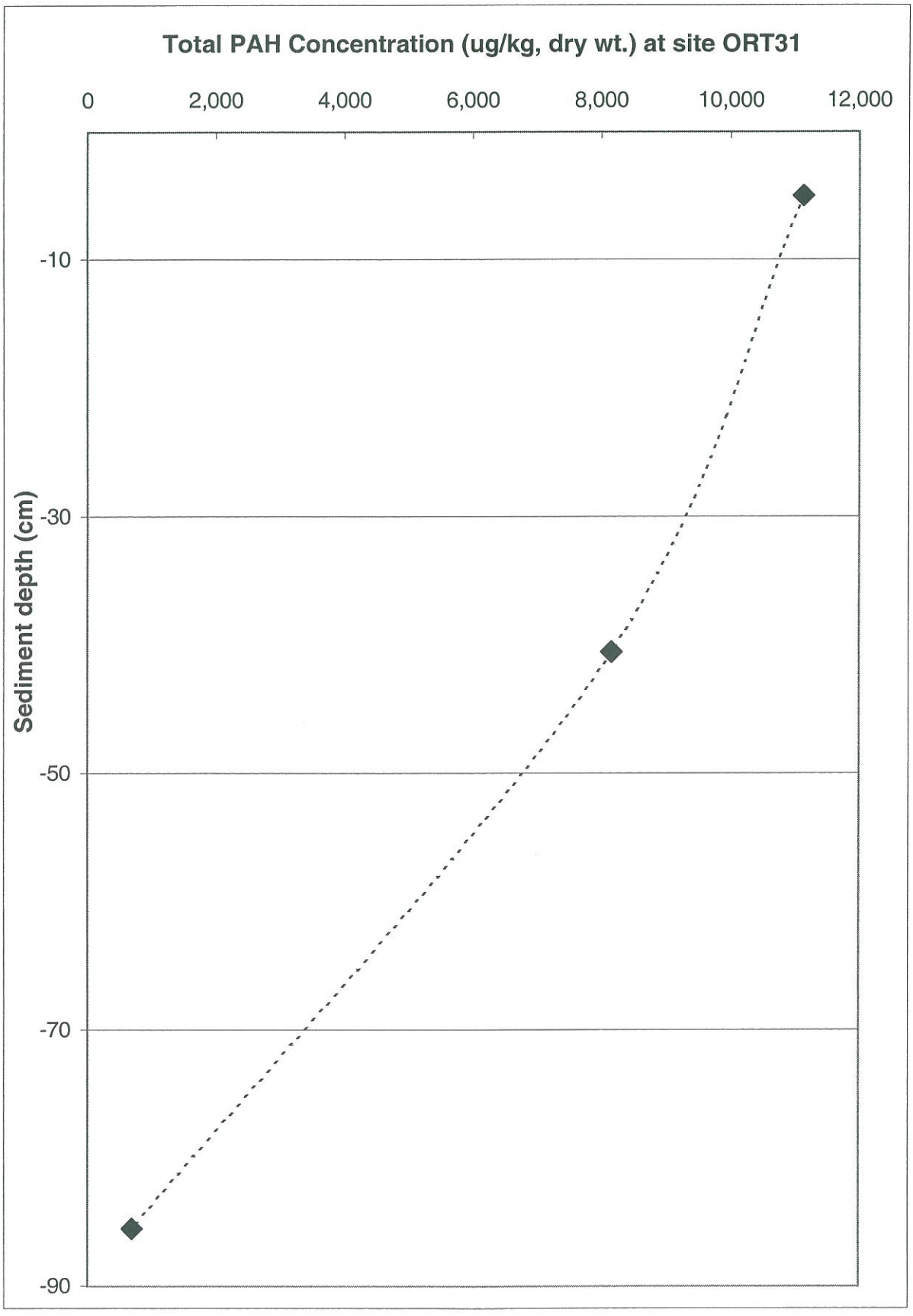

Zinc
Concentration (mg/kg, dry weight)
2,000
1,500
1,000
500
0
Zinc (surface)
Zinc (center)
Zinc (lower)
CED01
CED03
CED04
CED06
CED07
ORT25
ORT21
ORT18
ORT16
ORT05
ORT03
ORT31
ORT01
Site ID

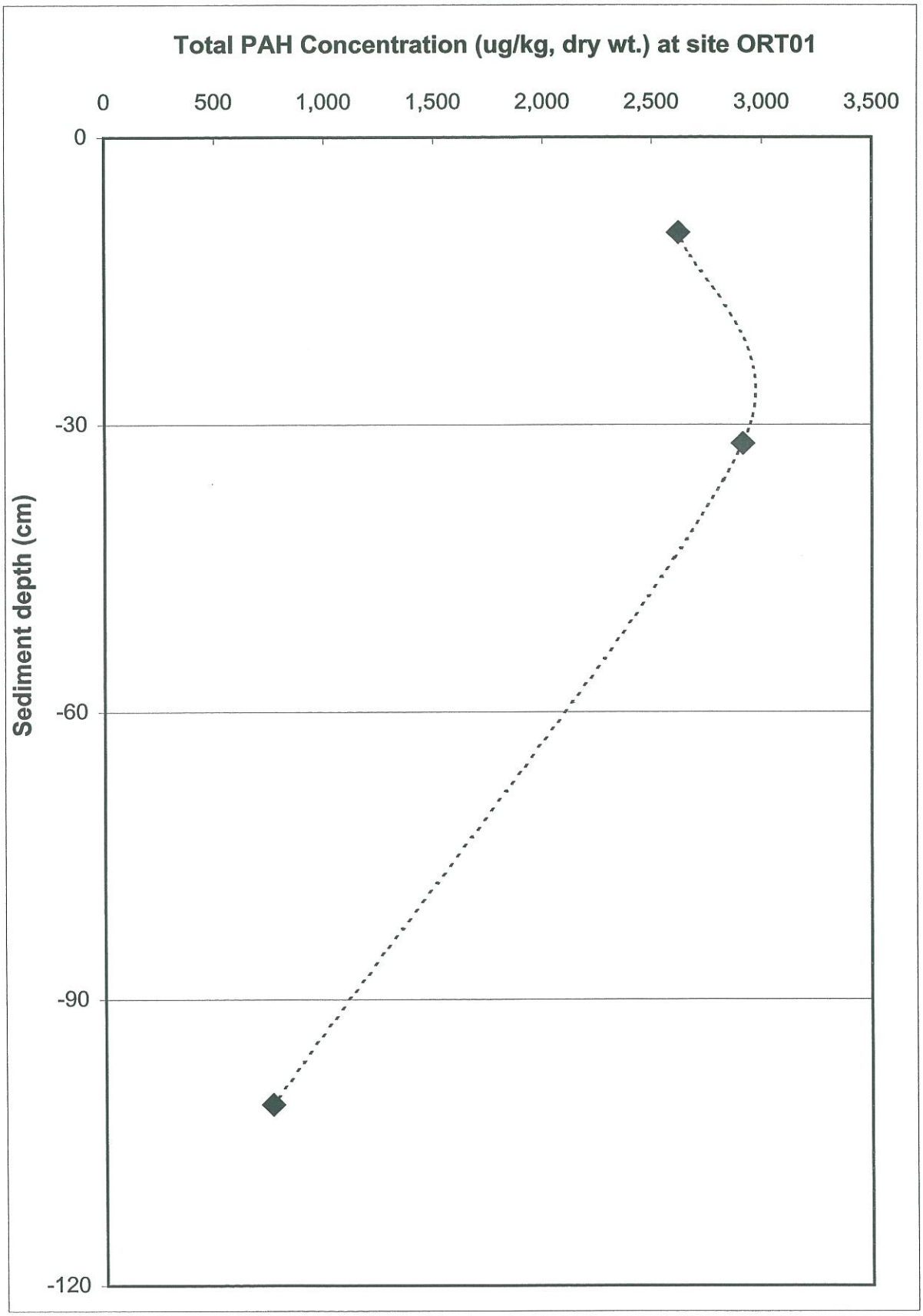
Appendix O. Charts with Concentration Profiles of Key Contaminants in Selected Sediment Cores

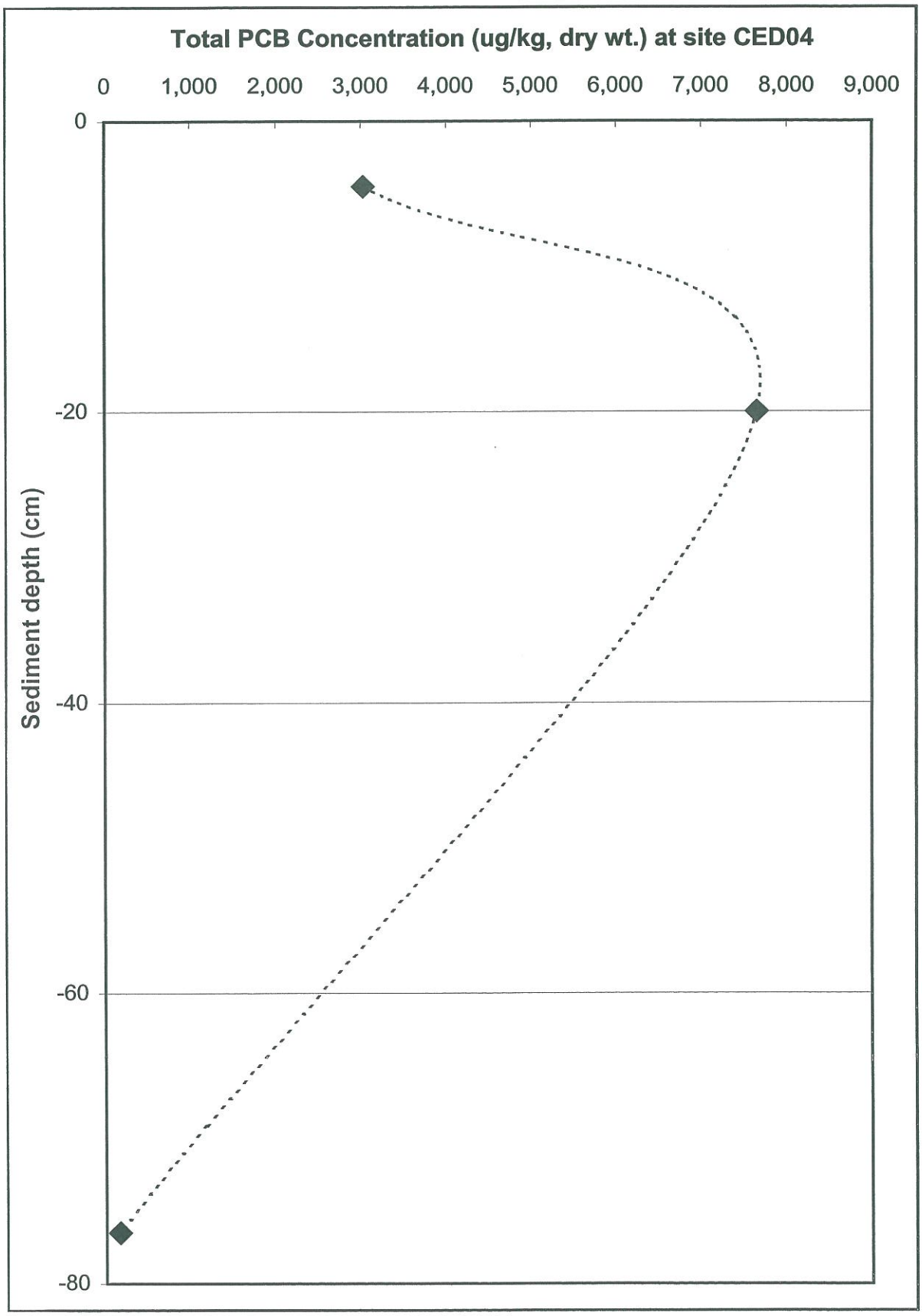

Total PAH Concentration (ug/kg, dry wt.) at site CED04
0
5,000
10,000
15,000
20,000
0
-20
-40
-60
-80
Sediment depth (cm)

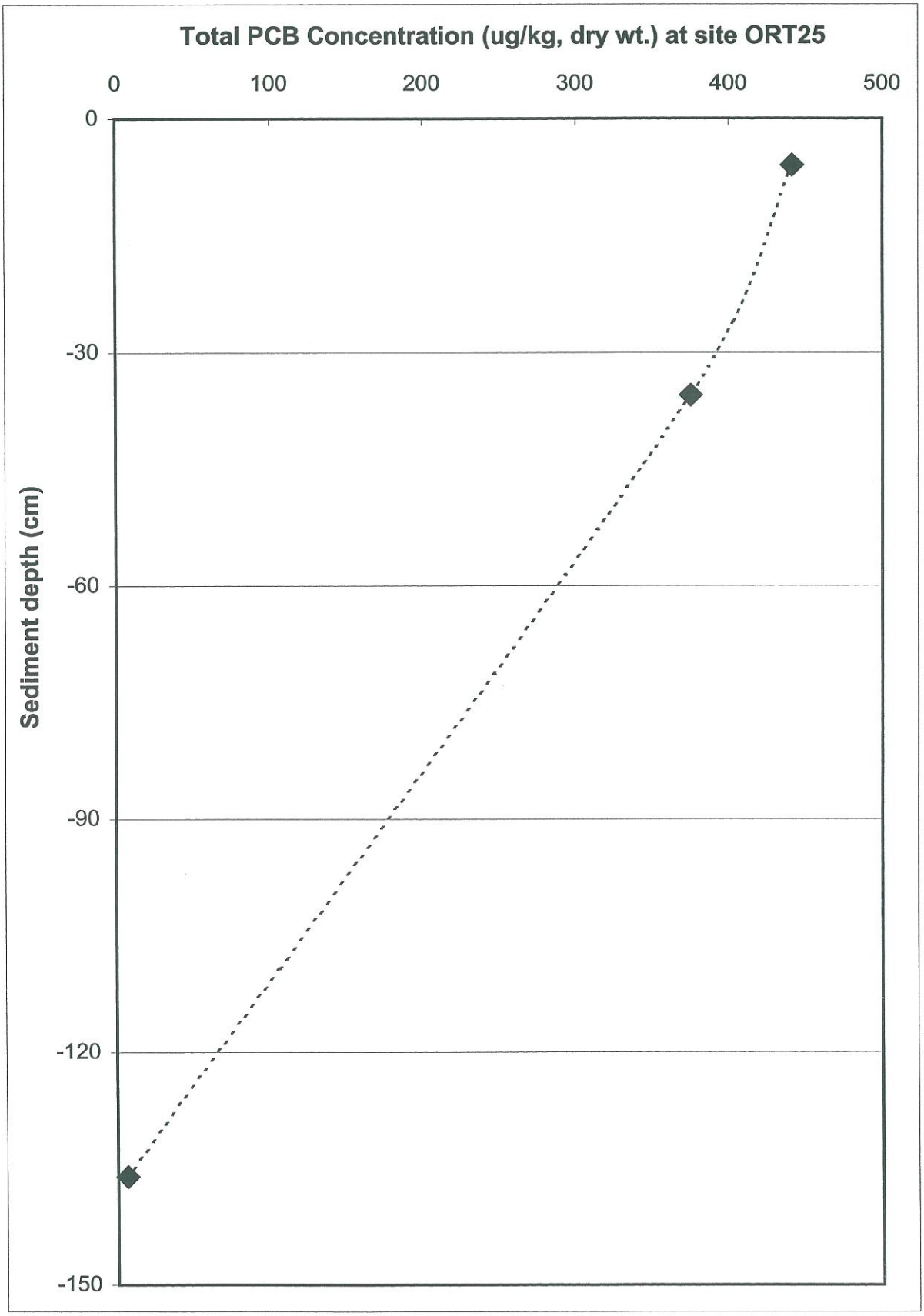

Total PAH Concentration (ug/kg, dry wt.) at site CED06
0
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
0
-20
-40
-60
-80
-100
Sediment depth (cm)

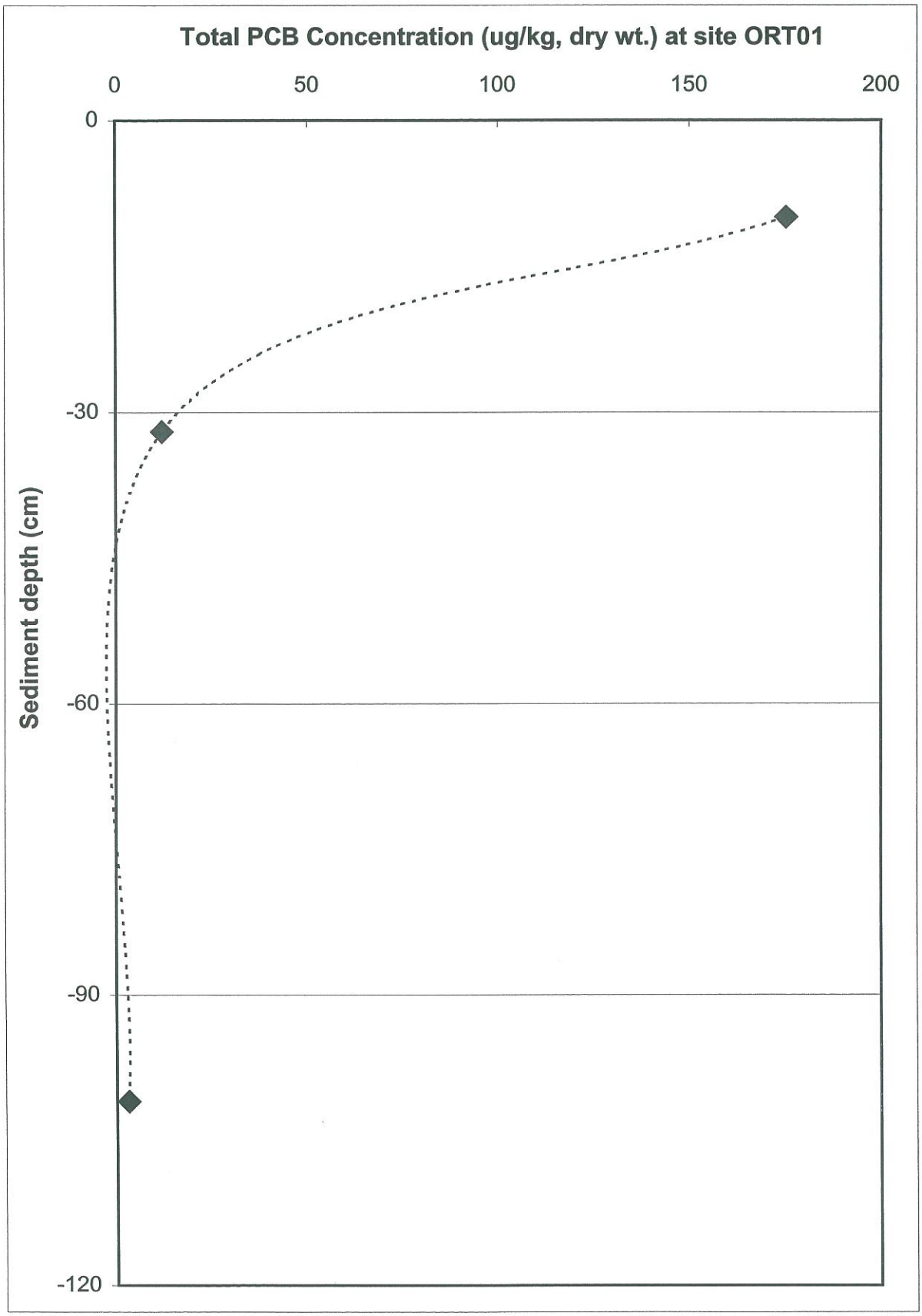

Total PAH Concentration (ug/kg, dry wt.) at site ORT25
0
2,000
4,000
6,000
8,000
10,000
12,000
14,000
0
-30
-60
-90
-120
-150
Sediment depth (cm)

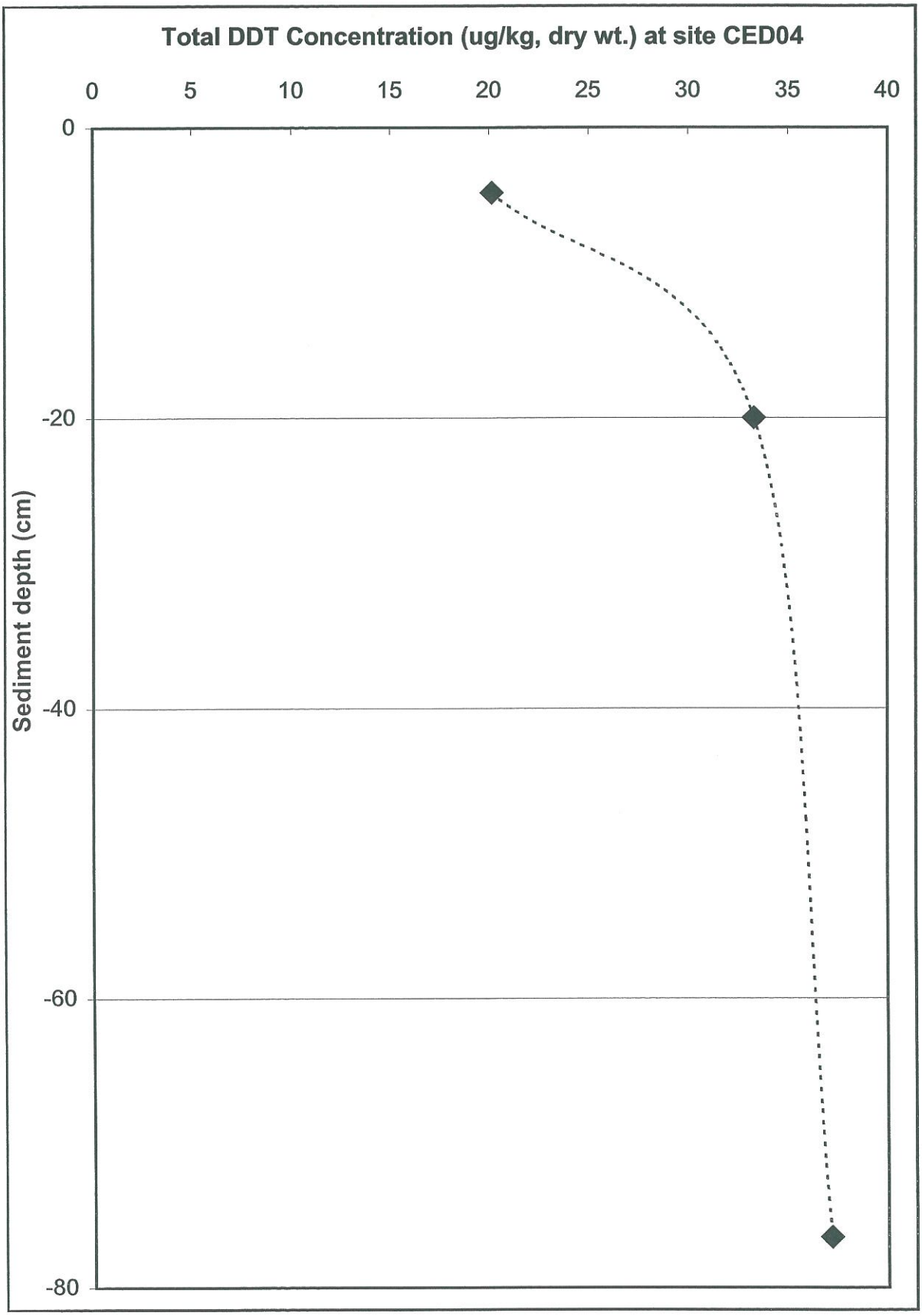

Total PAH Concentration (ug/kg, dry wt.) at site ORT31
0
2,000
4,000
6,000
8,000
10,000
12,000
Sediment depth (cm)
-10
-30
-50
-70
-90

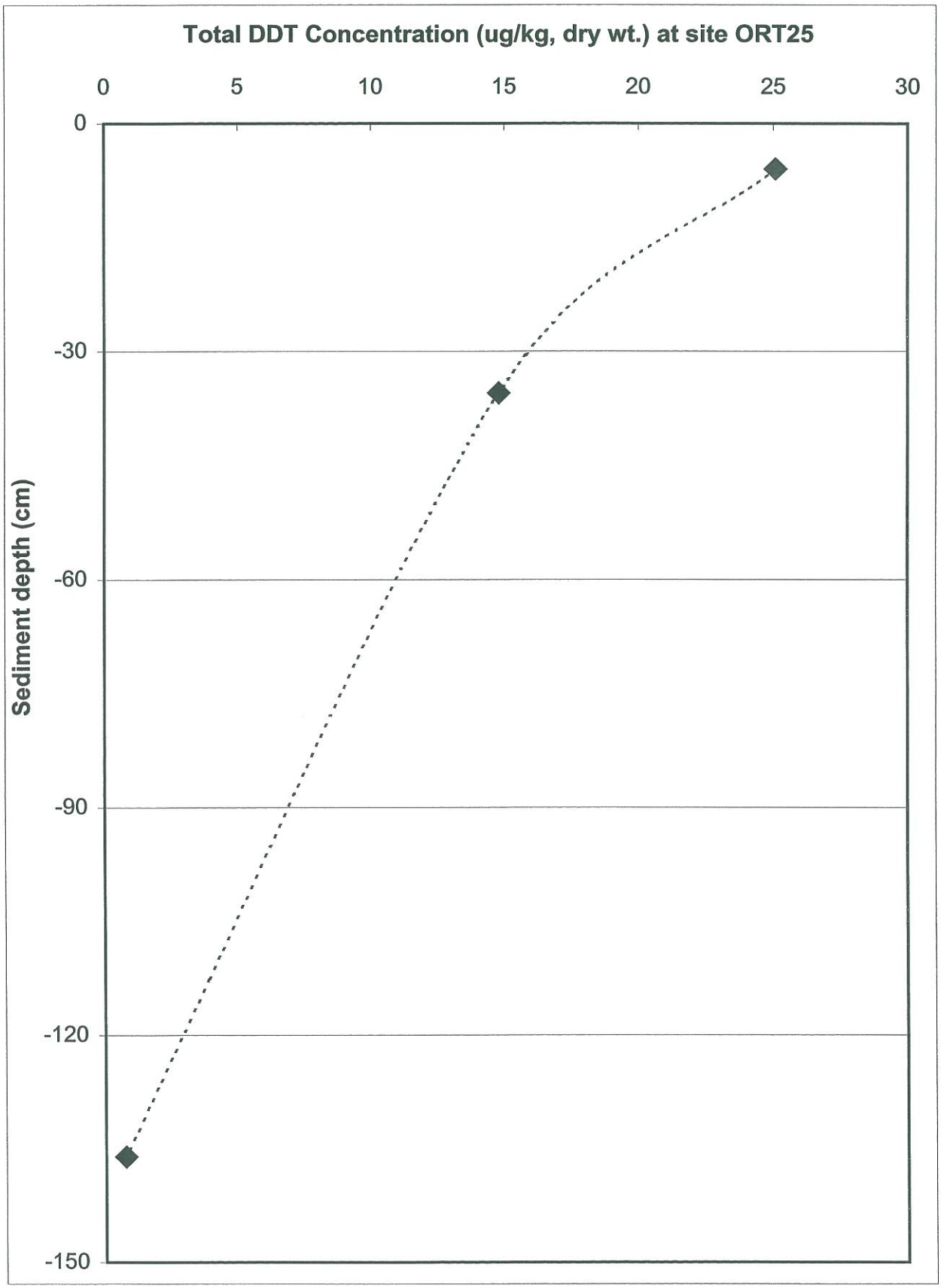

Total PAH Concentration (ug/kg, dry wt.) at site ORT01
0
500
1,000
1,500
2,000
2,500
3,000
3,500
0
-30
-60
-90
-120
Sediment depth (cm)

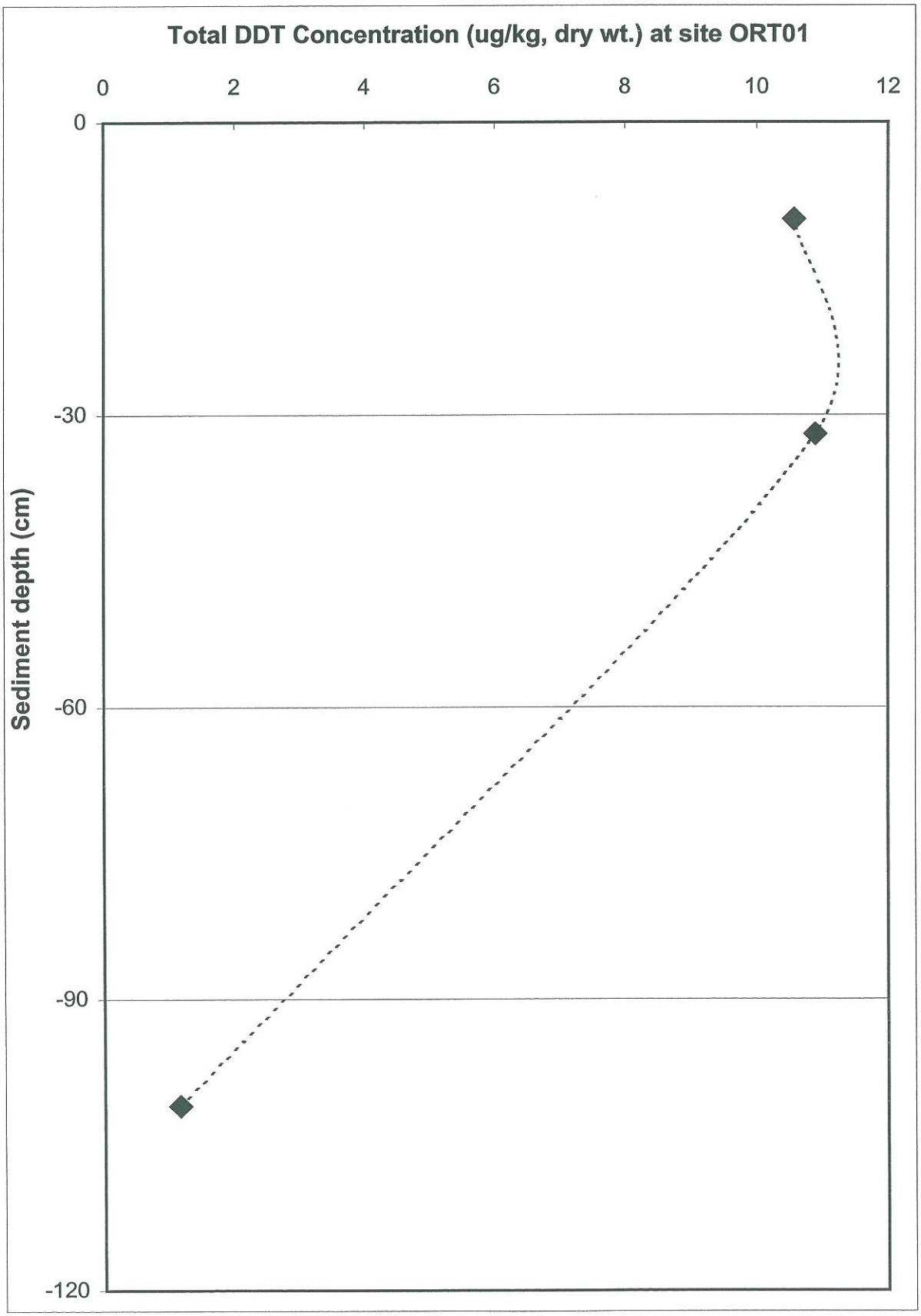

Total PCB Concentration (ug/kg, dry wt.) at site CED04
0
1,000
2,000
3,000
4,000
5,000
6,000
7,000
8,000
9,000
0
-20
-40
-60
-80
Sediment depth (cm)

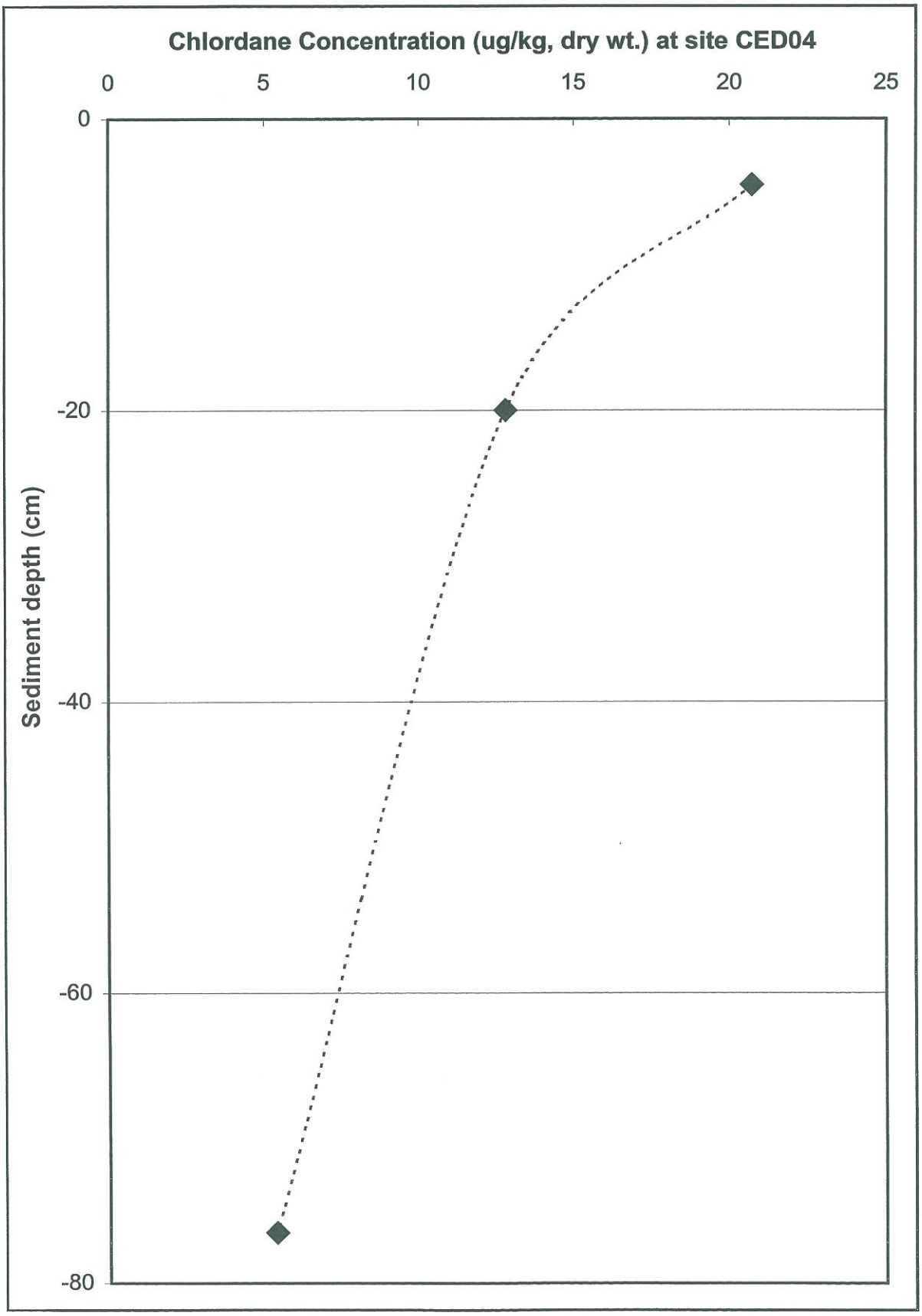

Total PCB Concentration (ug/kg, dry wt.) at site ORT25
0
100
200
300
400
500
0
-30
-60
-90
-120
-150
Sediment depth (cm)

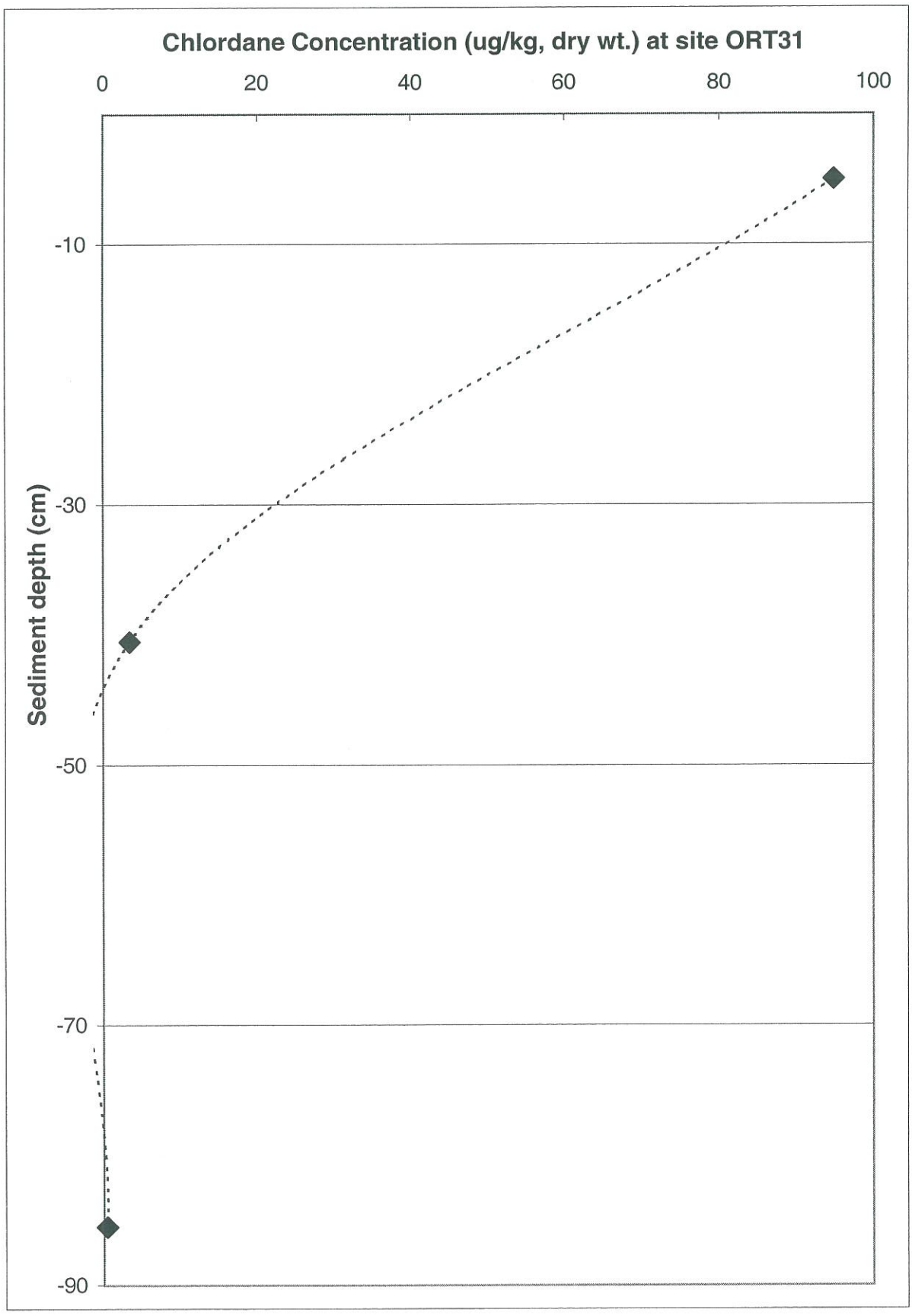

Total PCB Concentration (ug/kg, dry wt.) at site ORT01
0
50
100
150
200
0
-30
-60
-90
-120
Sediment depth (cm)

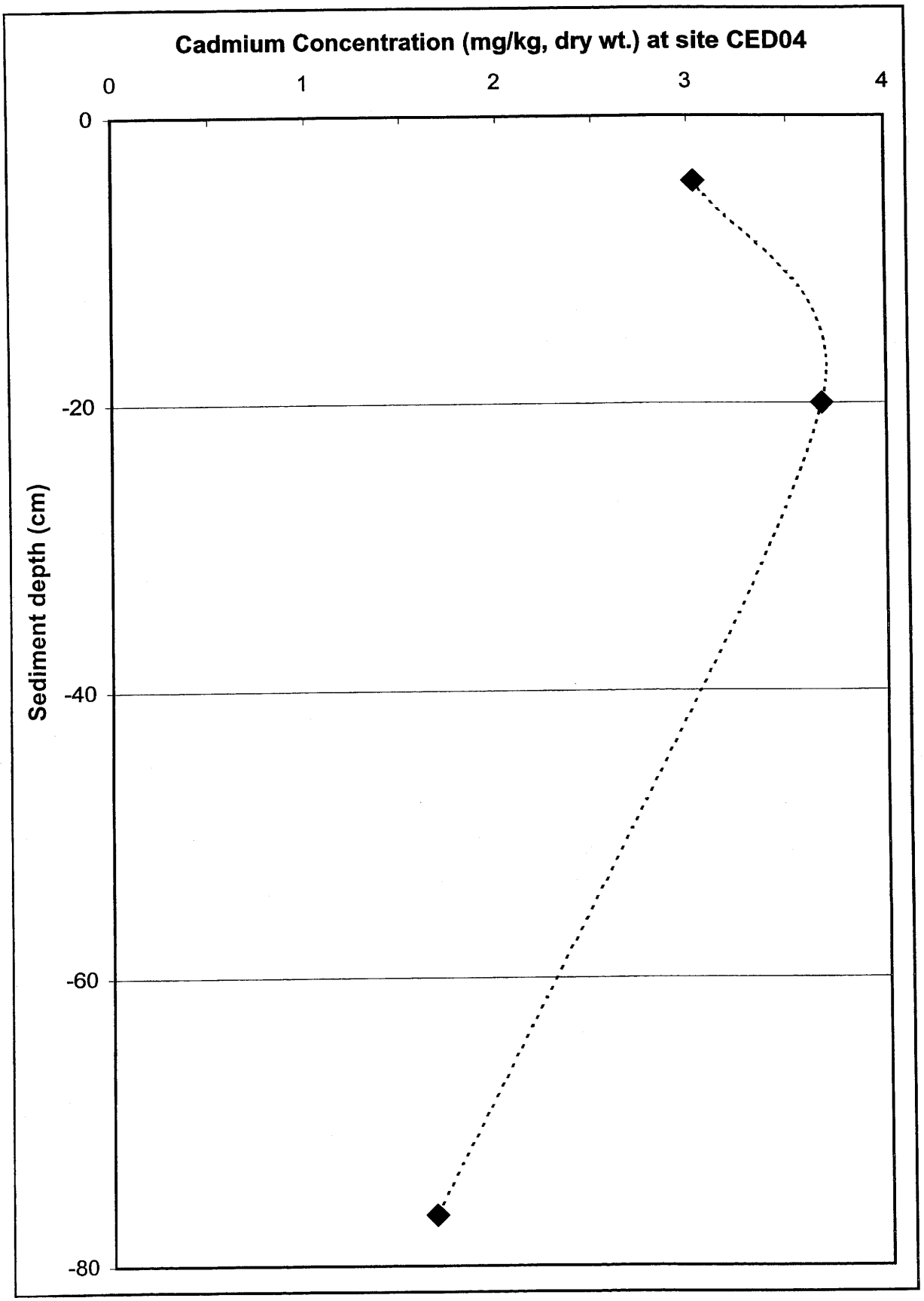

Total DDT Concentration (ug/kg, dry wt.) at site CED04
0
5
10
15
20
25
30
35
40
0
-20
-40
-60
-80
Sediment depth (cm)

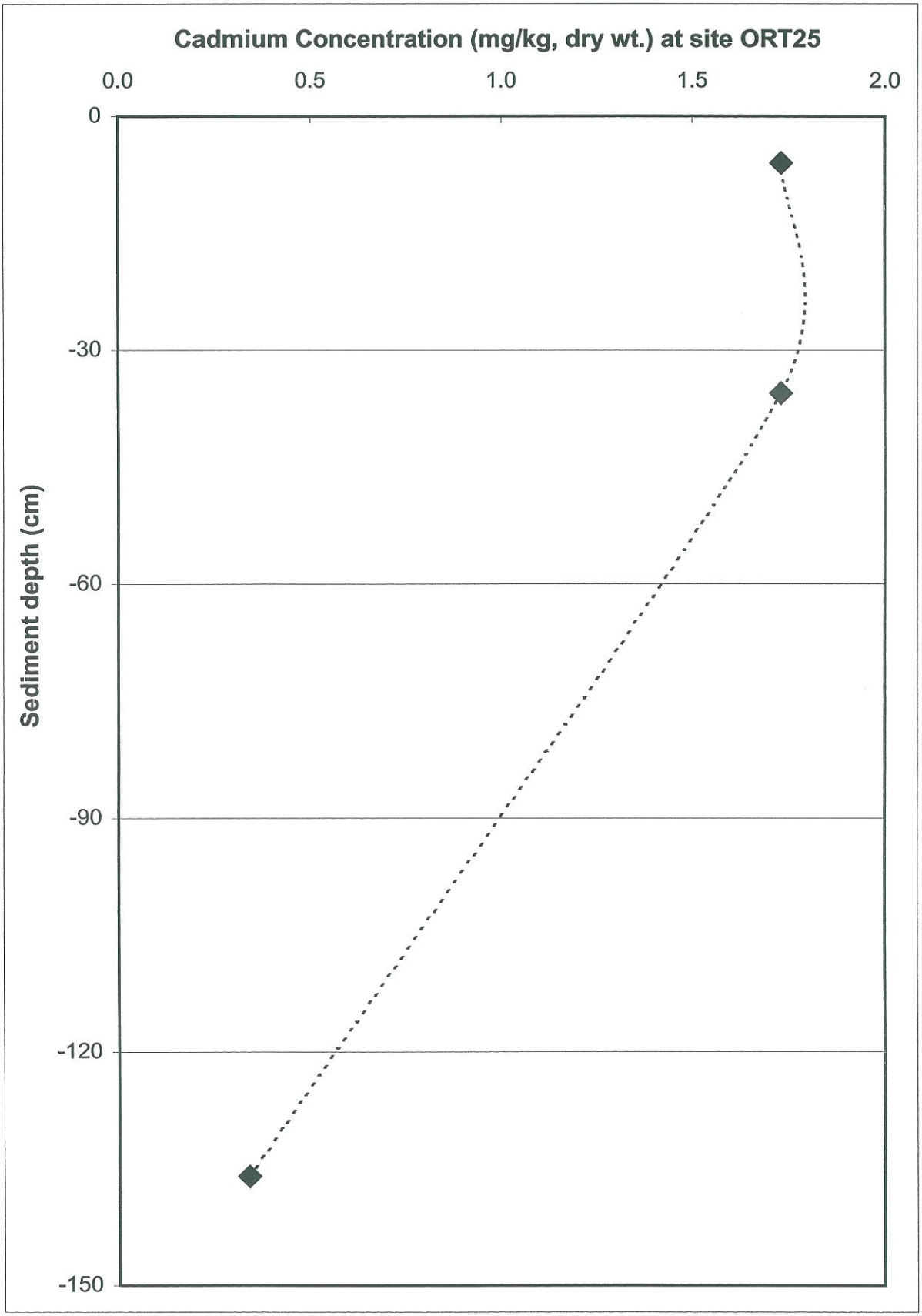

Total DDT Concentration (ug/kg, dry wt.) at site ORT25
0
5
10
15
20
25
30
0
-30
-60
-90
-120
-150
Sediment depth (cm)

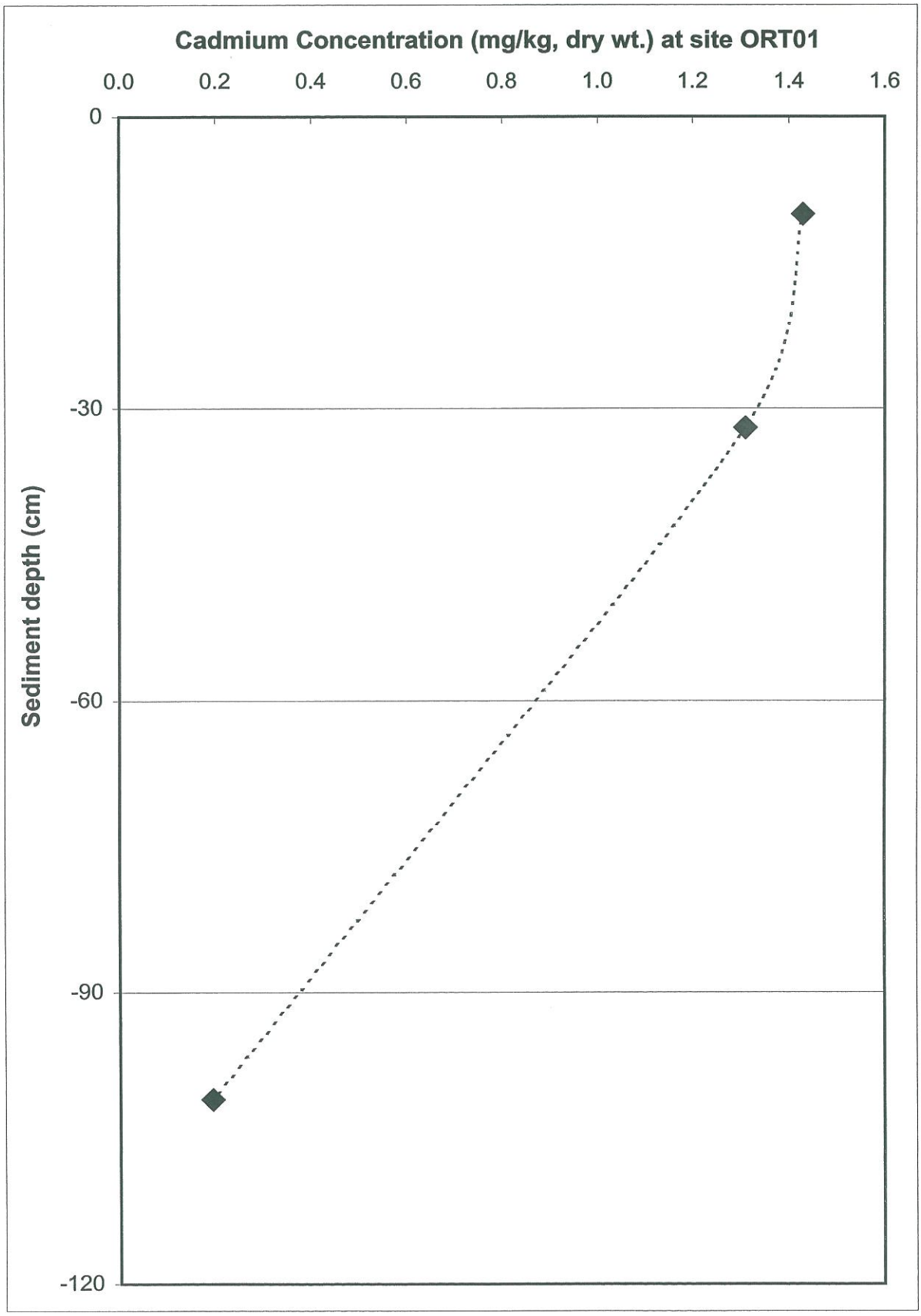

Total DDT Concentration (ug/kg, dry wt.) at site ORT01
0
2
4
6
8
10
12
0
-30
-60
-90
-120
Sediment depth (cm)

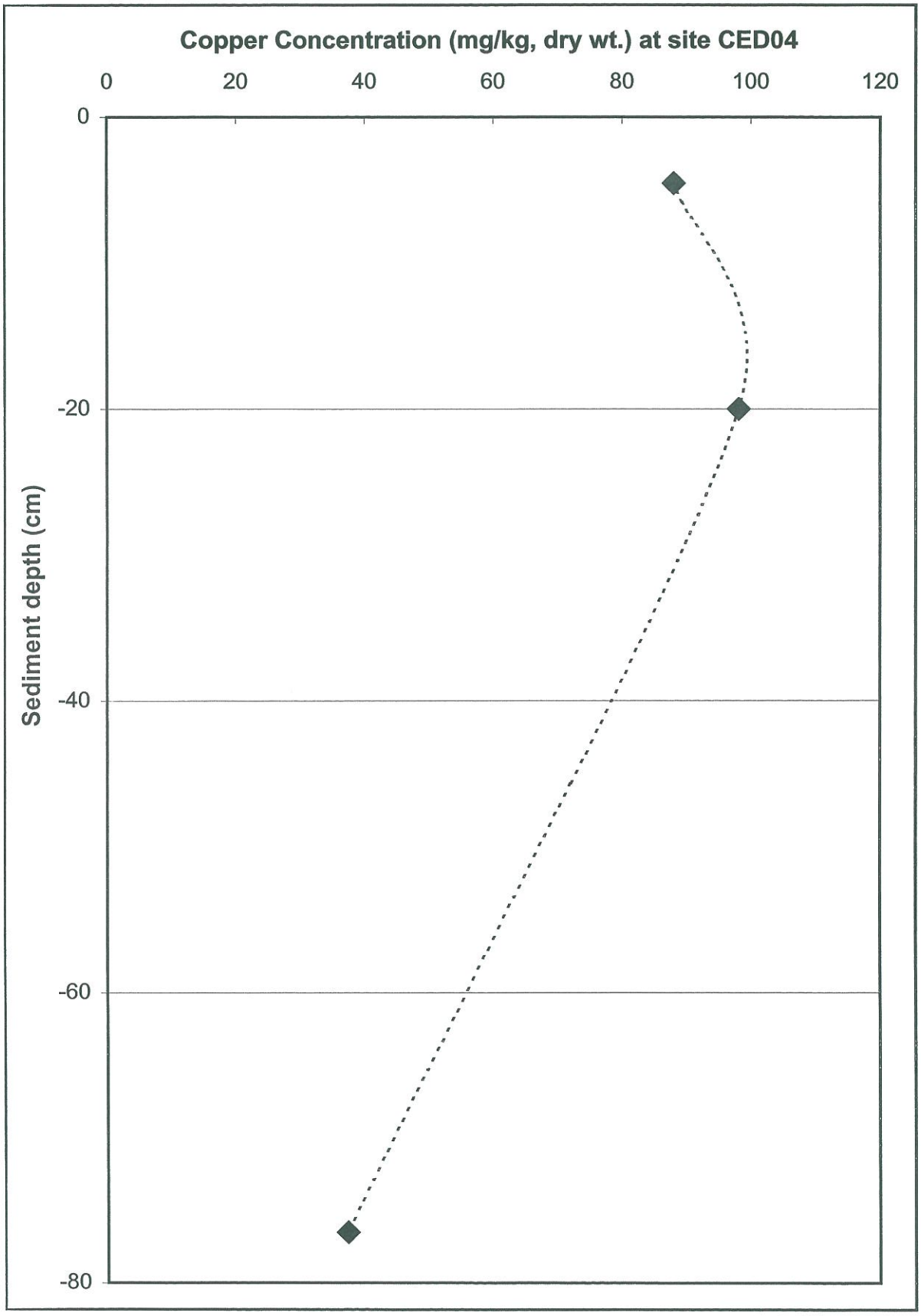

Chlordane Concentration (ug/kg, dry wt.) at site CED04
0
5
10
15
20
25
0
-20
-40
-60
-80
Sediment depth (cm)

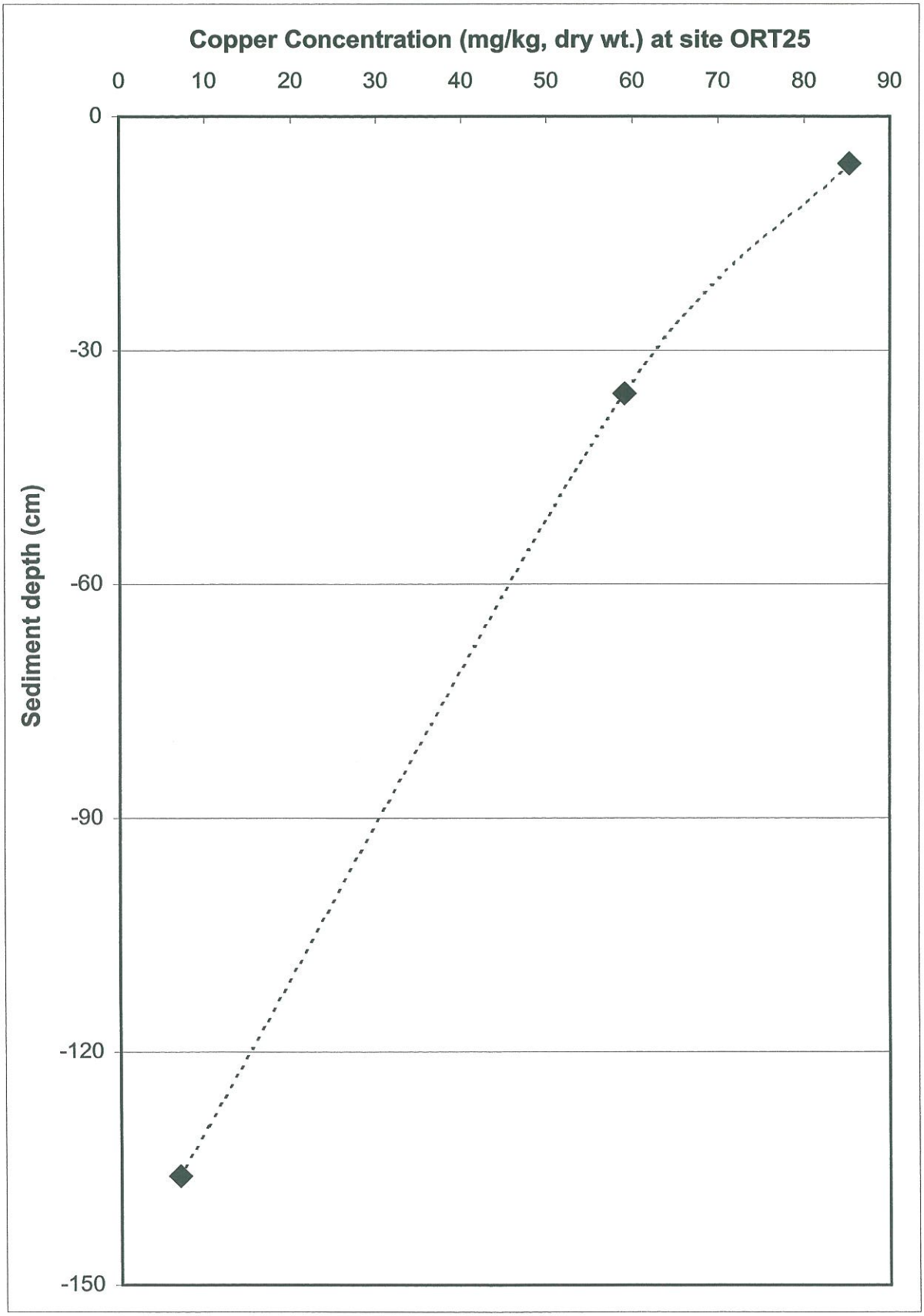

Chlordane Concentration (ug/kg, dry wt.) at site ORT31
0
20
40
60
80
100
-10
-30
-50
-70
-90
Sediment depth (cm)

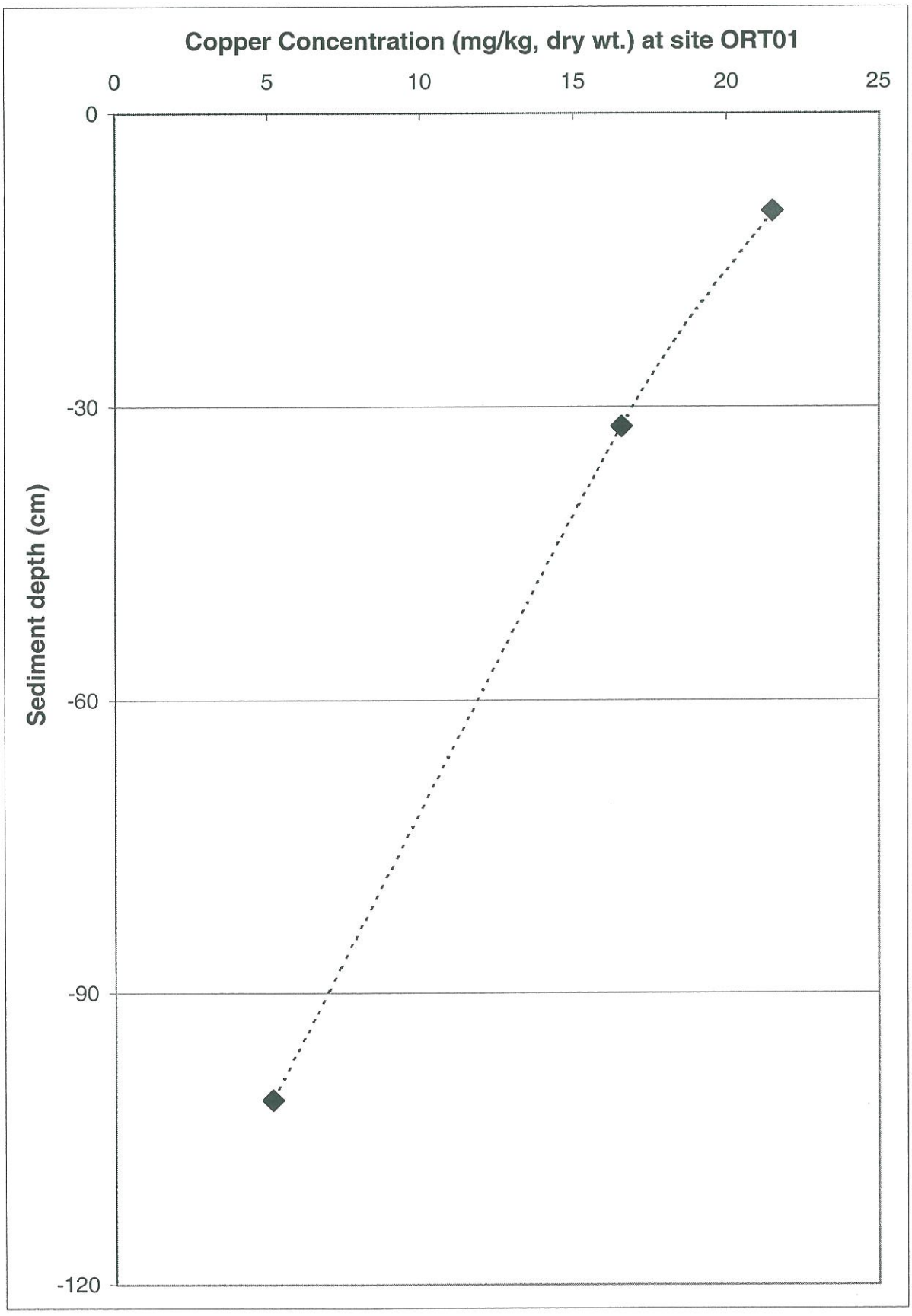

Cadmium Concentration (mg/kg, dry wt.) at site CED04
0
1
2
3
4
0
-20
-40
-60
-80
Sediment depth (cm)

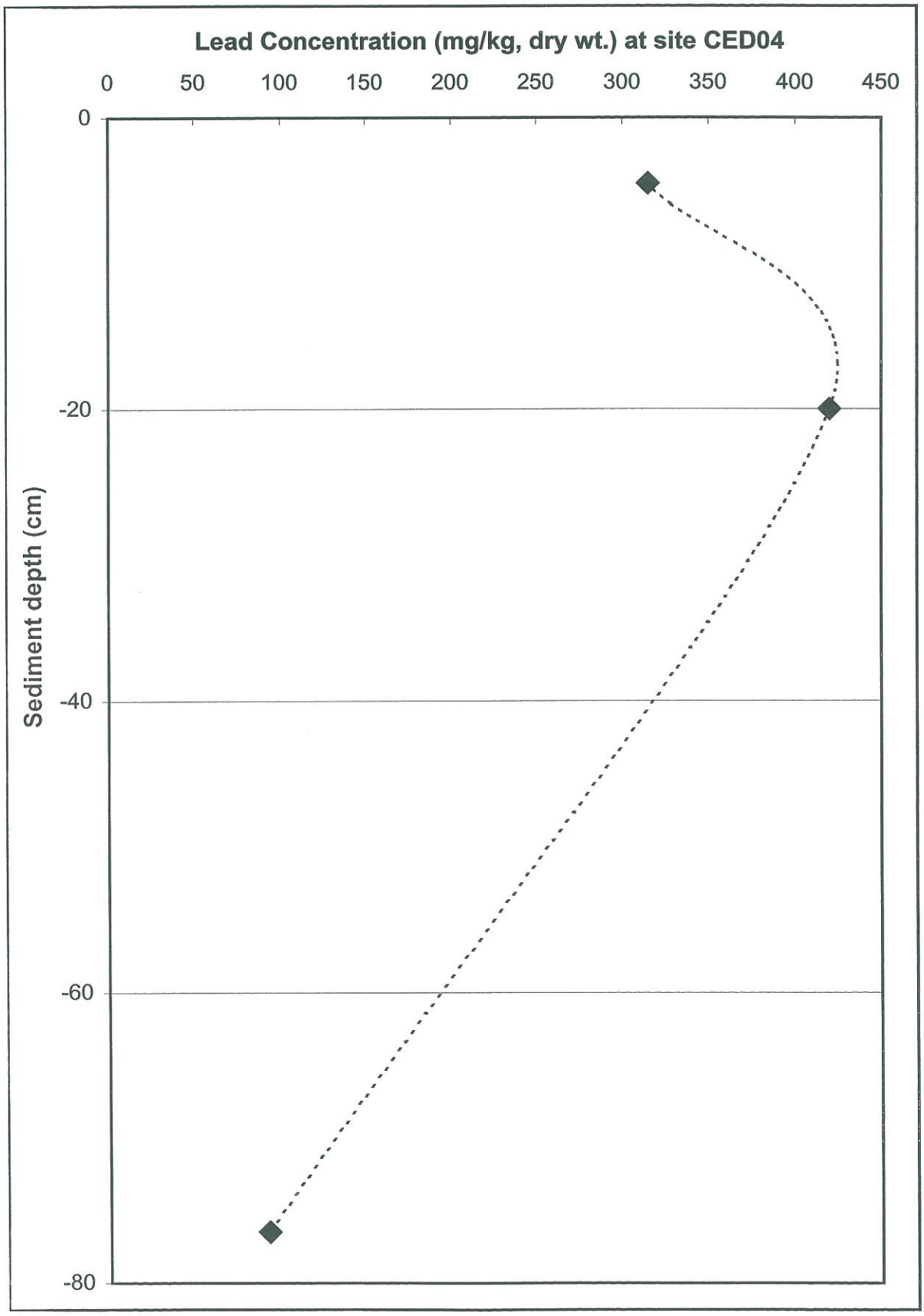

Cadmium Concentration (mg/kg, dry wt.) at site ORT25
0.0
0.5
1.0
1.5
2.0
0
-30
-60
-90
-120
-150
Sediment depth (cm)

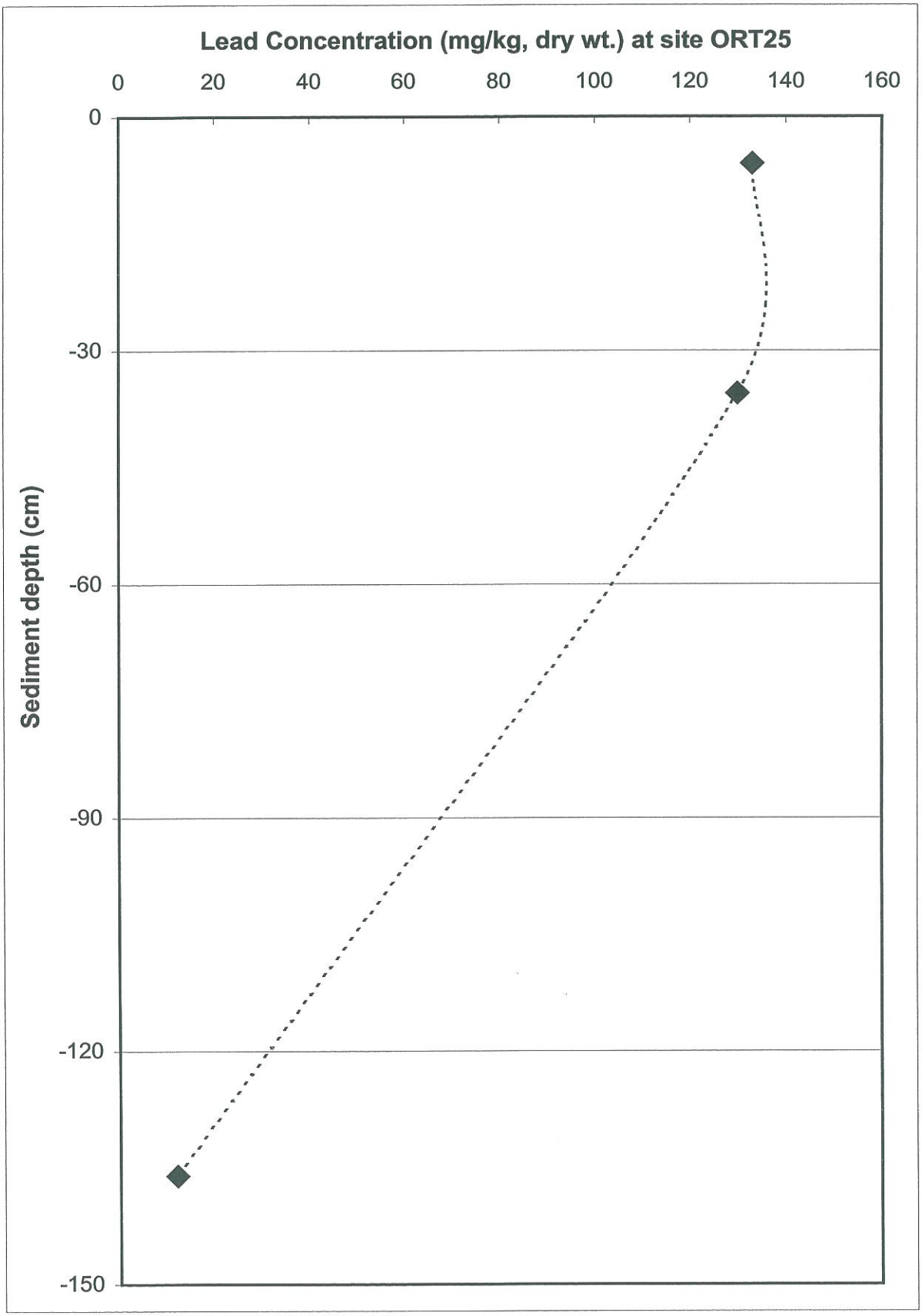

Cadmium Concentration (mg/kg, dry wt.) at site ORT01
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
-30
-60
-90
-120
Sediment depth (cm)

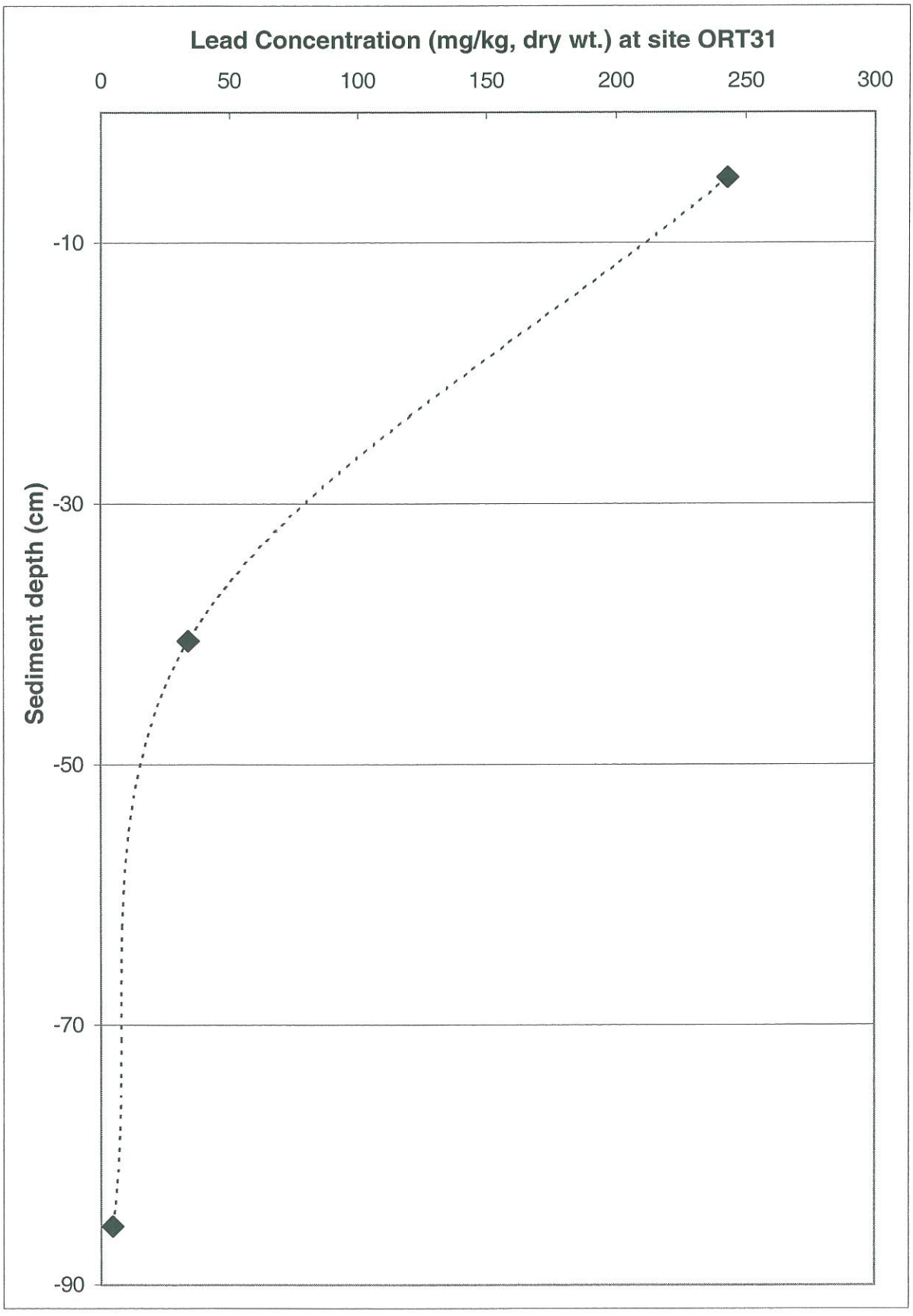

Copper Concentration (mg/kg, dry wt.) at site CED04
0
20
40
60
80
100
120
0
-20
-40
-60
-80
Sediment depth (cm)

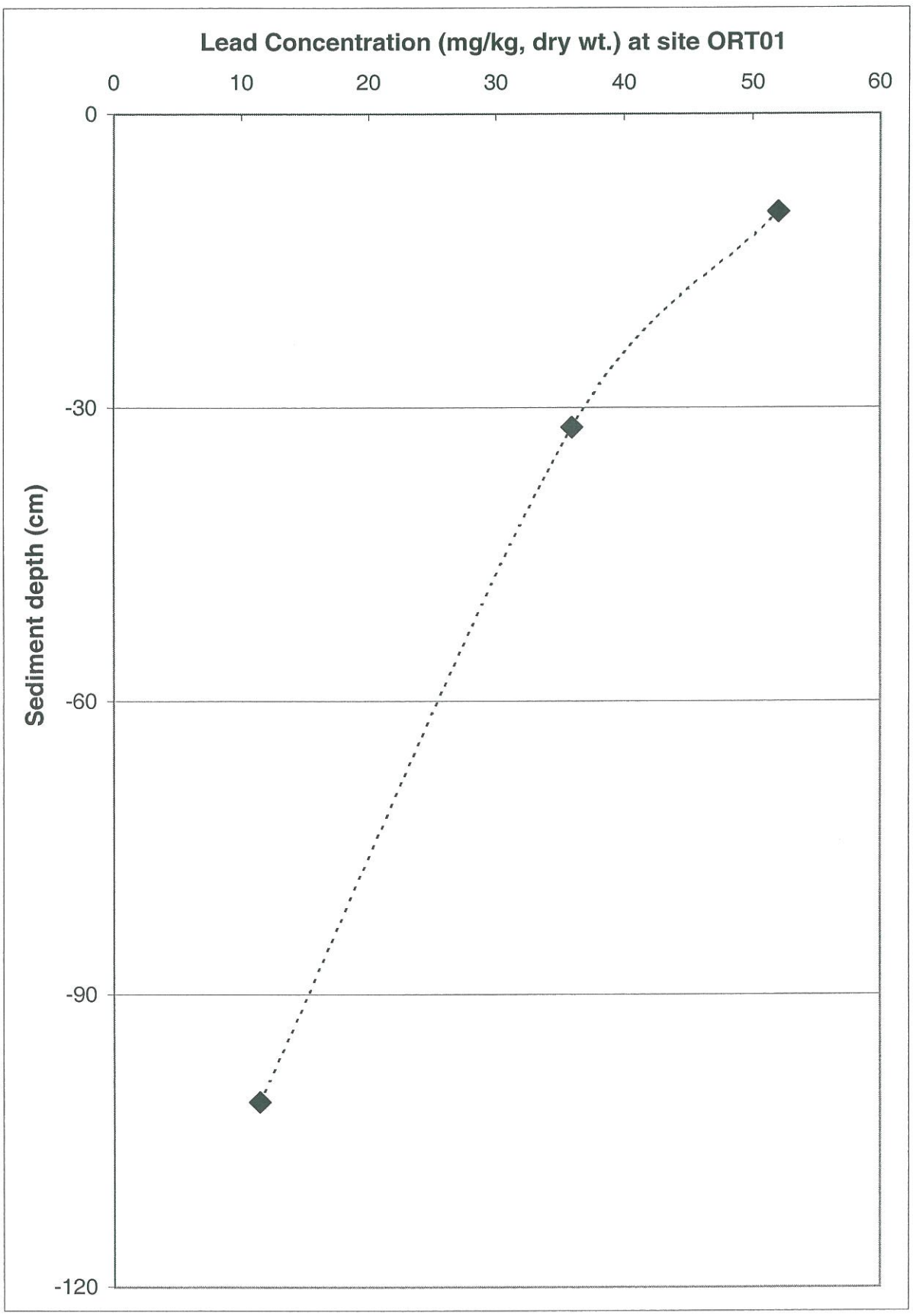

Copper Concentration (mg/kg, dry wt.) at site ORT25
0
10
20
30
40
50
60
70
80
90
0
-30
-60
-90
-120
-150
Sediment depth (cm)

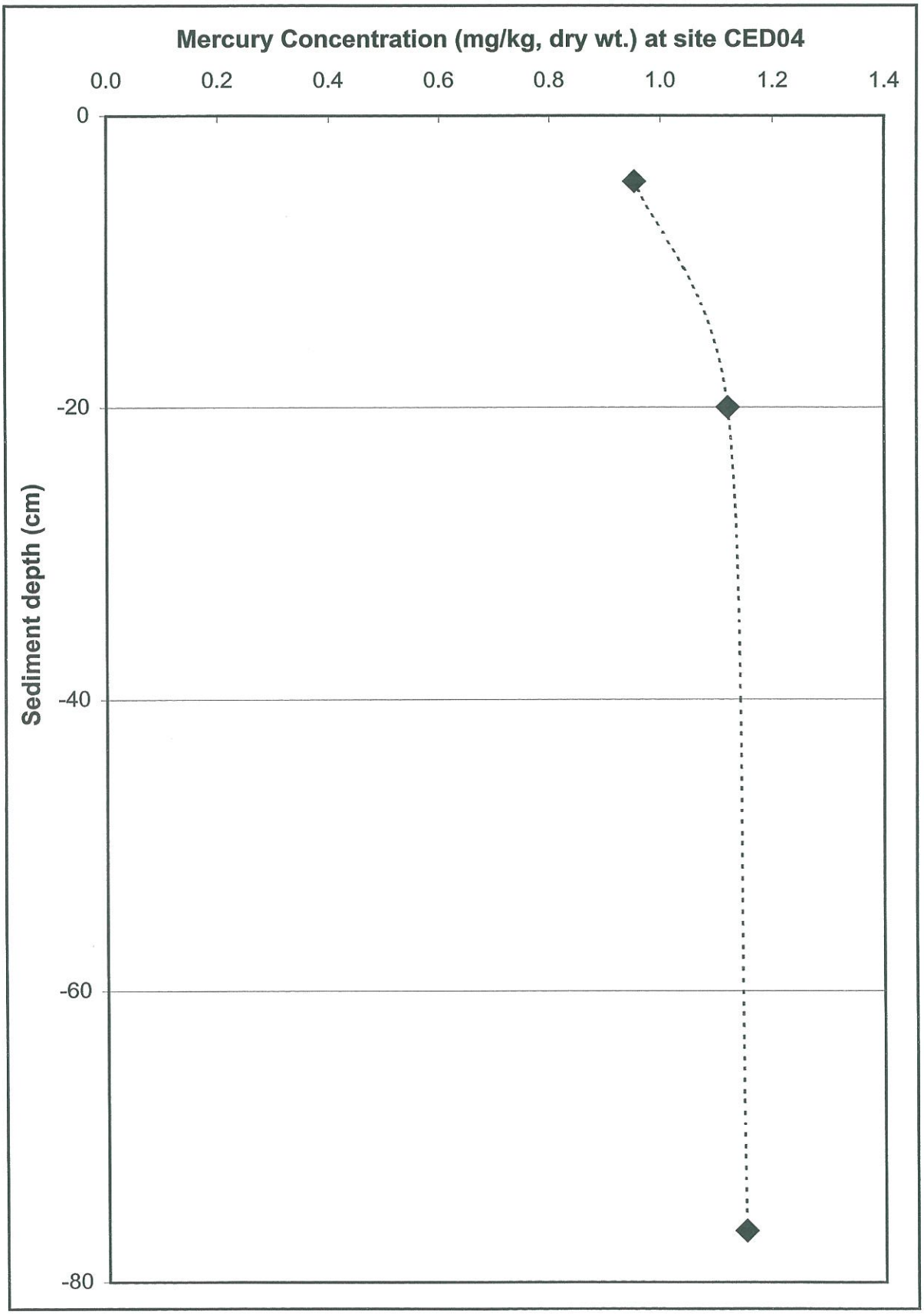

Copper Concentration (mg/kg, dry wt.) at site ORT01
0
5
10
15
20
25
0
-30
-60
-90
-120
Sediment depth (cm)

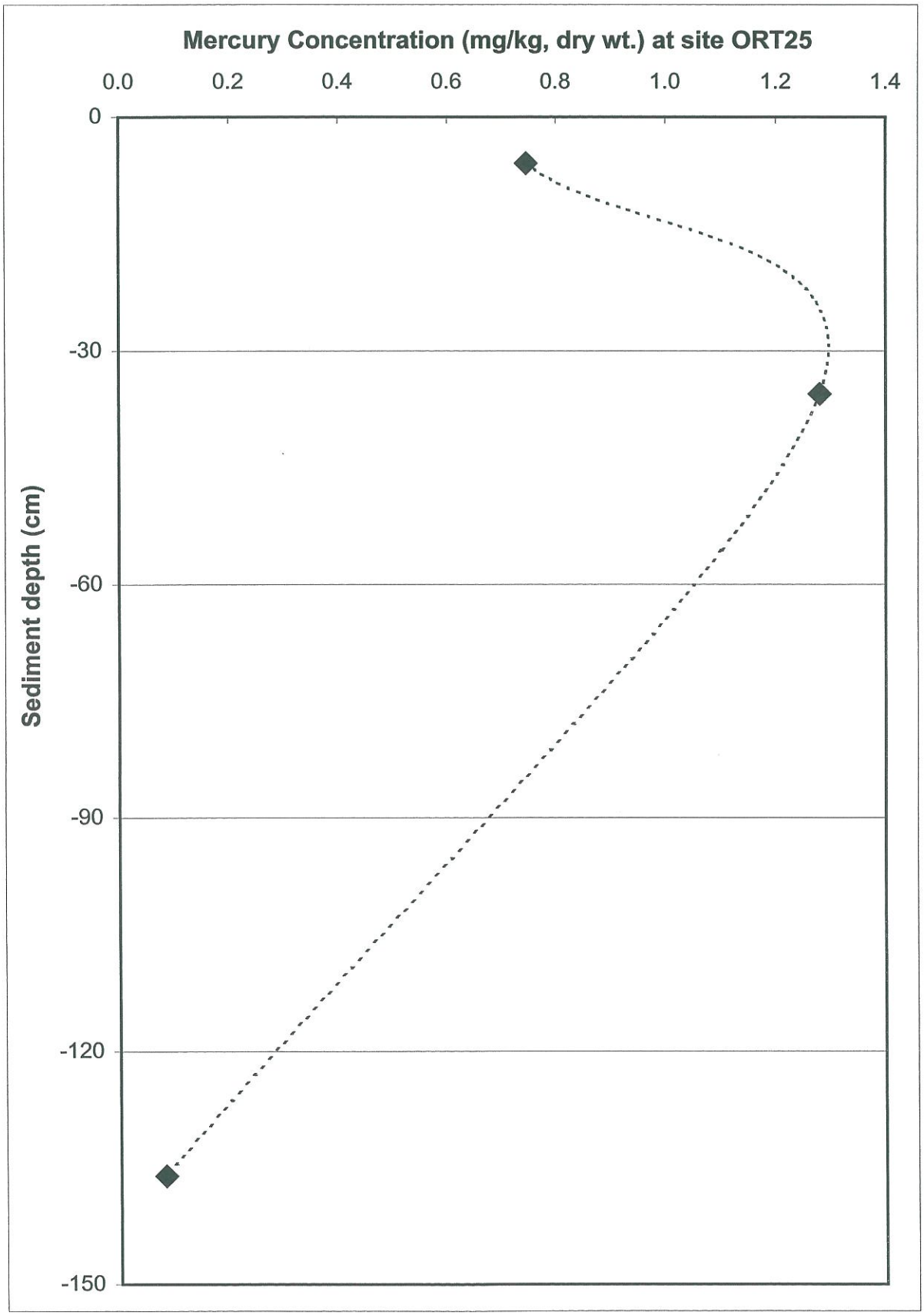

Lead Concentration (mg/kg, dry wt.) at site CED04
0
50
100
150
200
250
300
350
400
450
0
-20
-40
-60
-80
Sediment depth (cm)

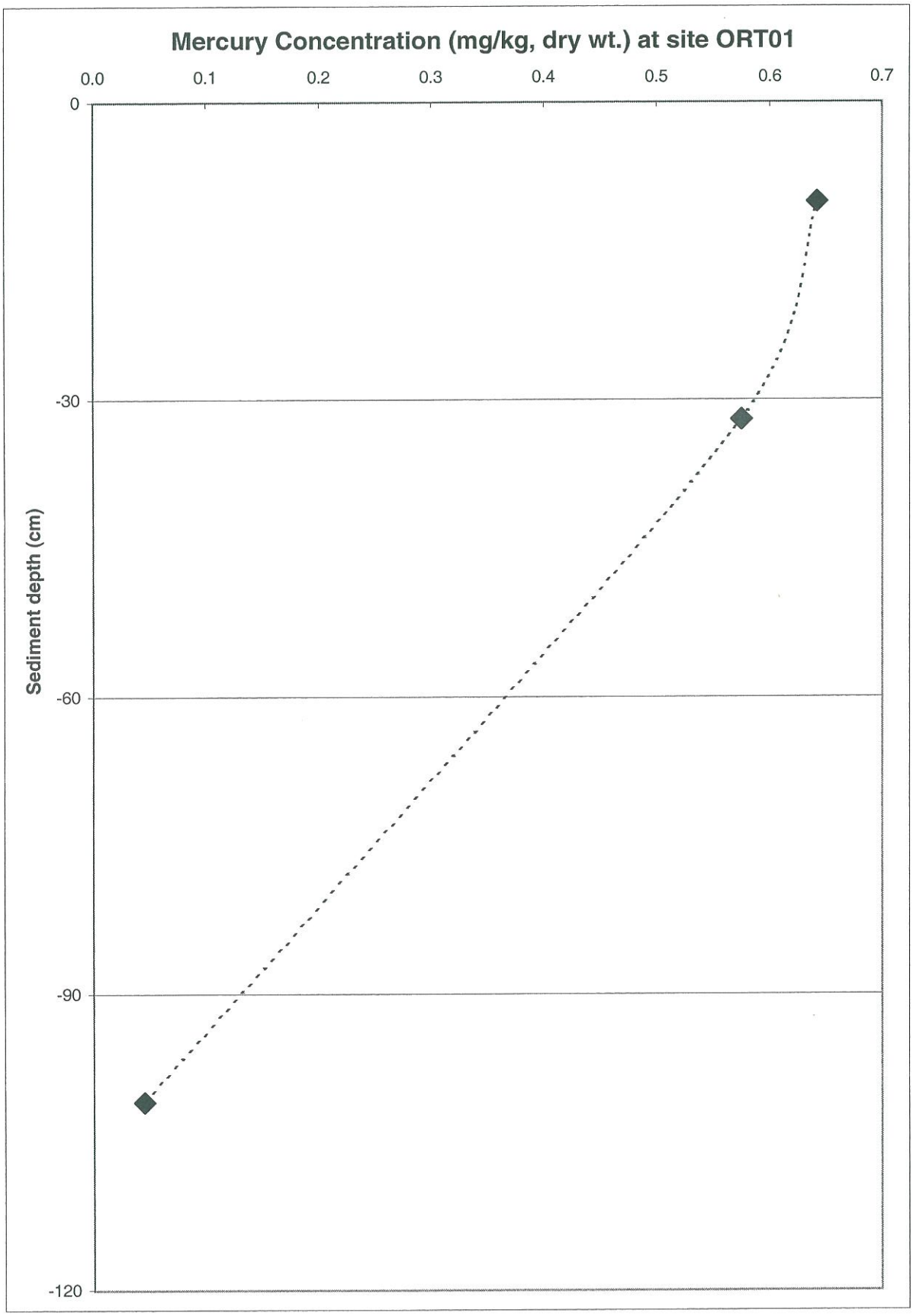

Lead Concentration (mg/kg, dry wt.) at site ORT25
0
20
40
60
80
100
120
140
160
0
-30
-60
-90
-120
-150
Sediment depth (cm)

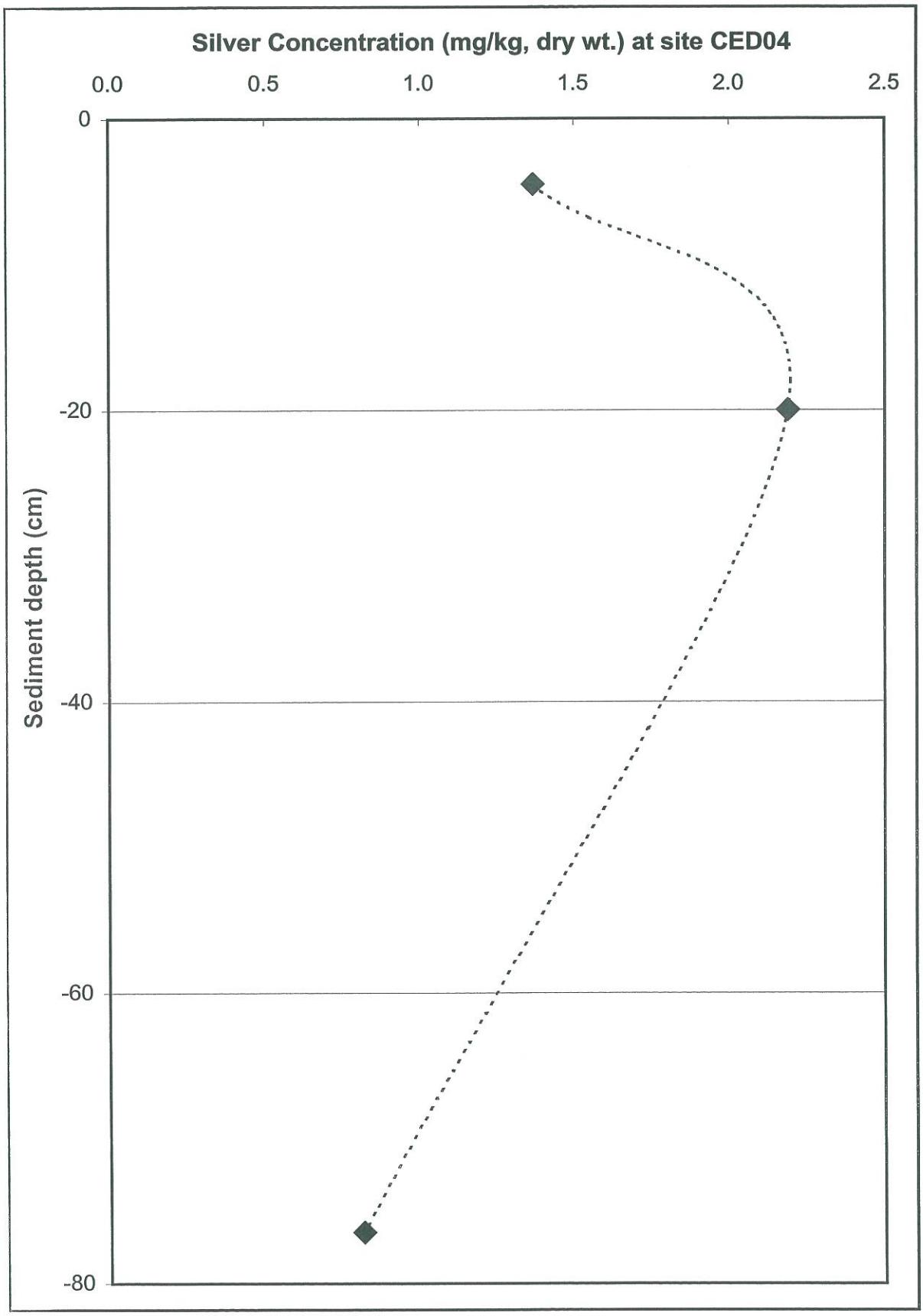

Lead Concentration (mg/kg, dry wt.) at site ORT31
0
50
100
150
200
250
300
Sediment depth (cm)
-10
-30
-50
-70
-90

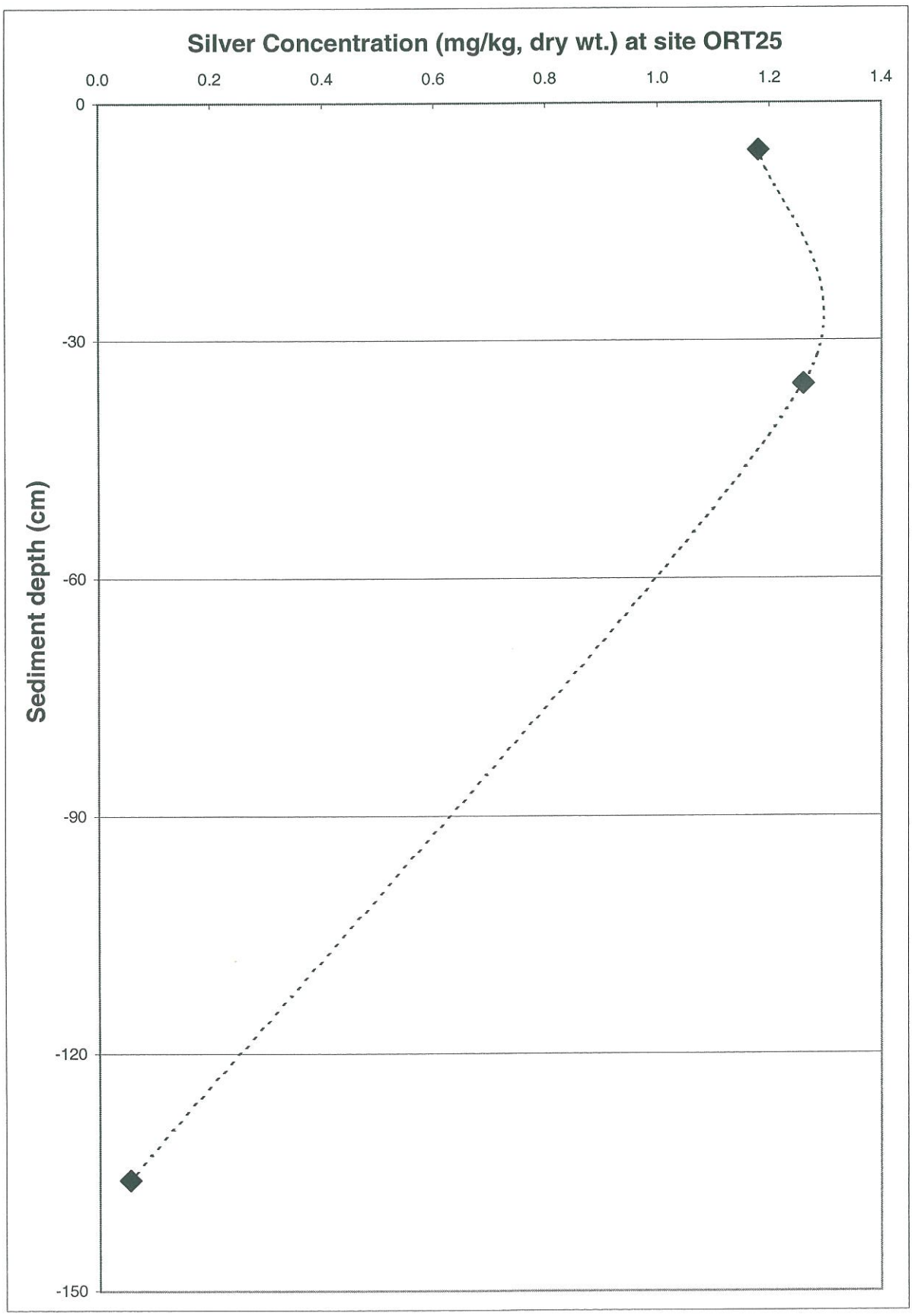

Lead Concentration (mg/kg, dry wt.) at site ORT01
0
10
20
30
40
50
60
0
-30
-60
-90
-120
Sediment depth (cm)

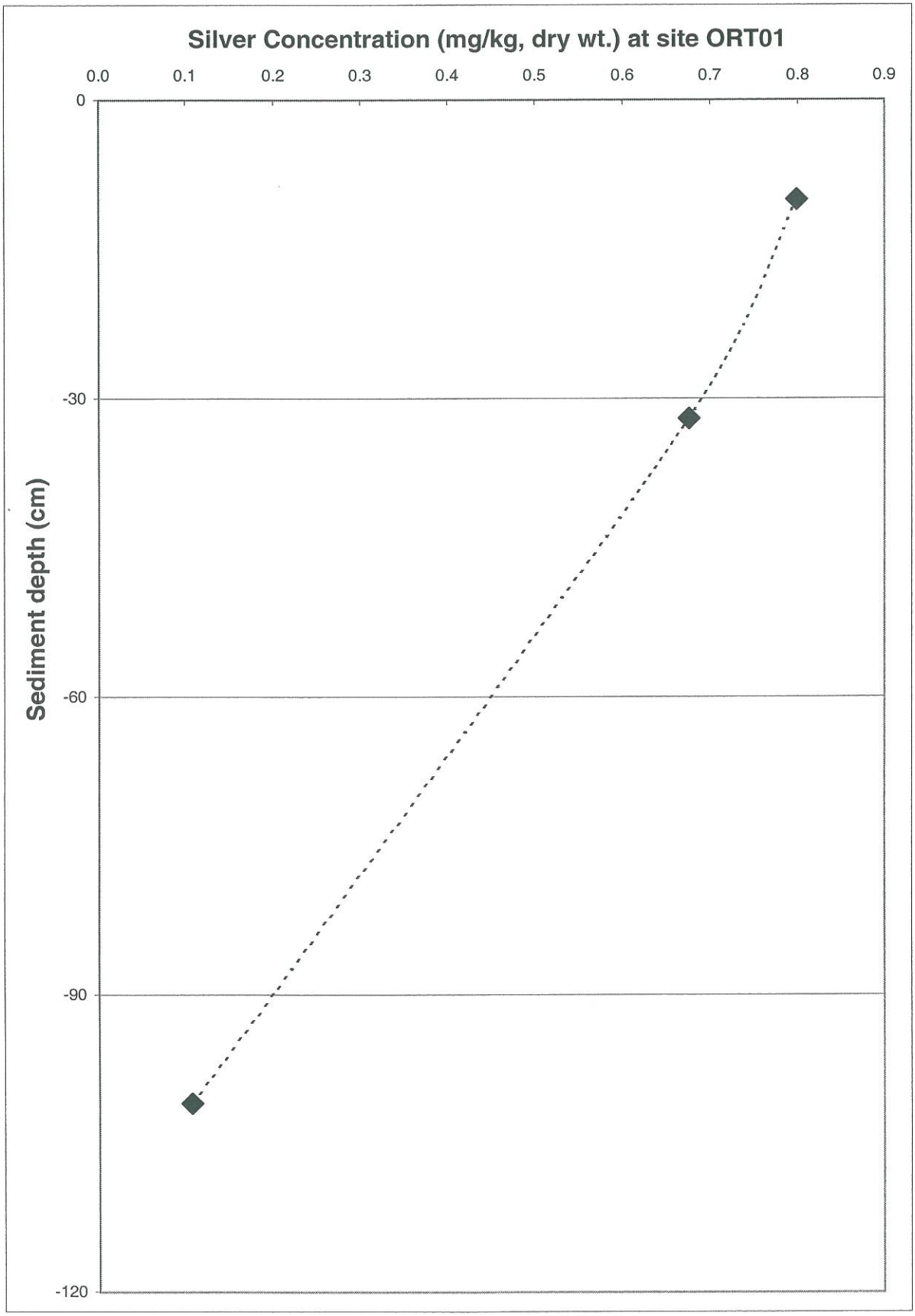

Mercury Concentration (mg/kg, dry wt.) at site CED04
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
-20
-40
-60
-80
Sediment depth (cm)

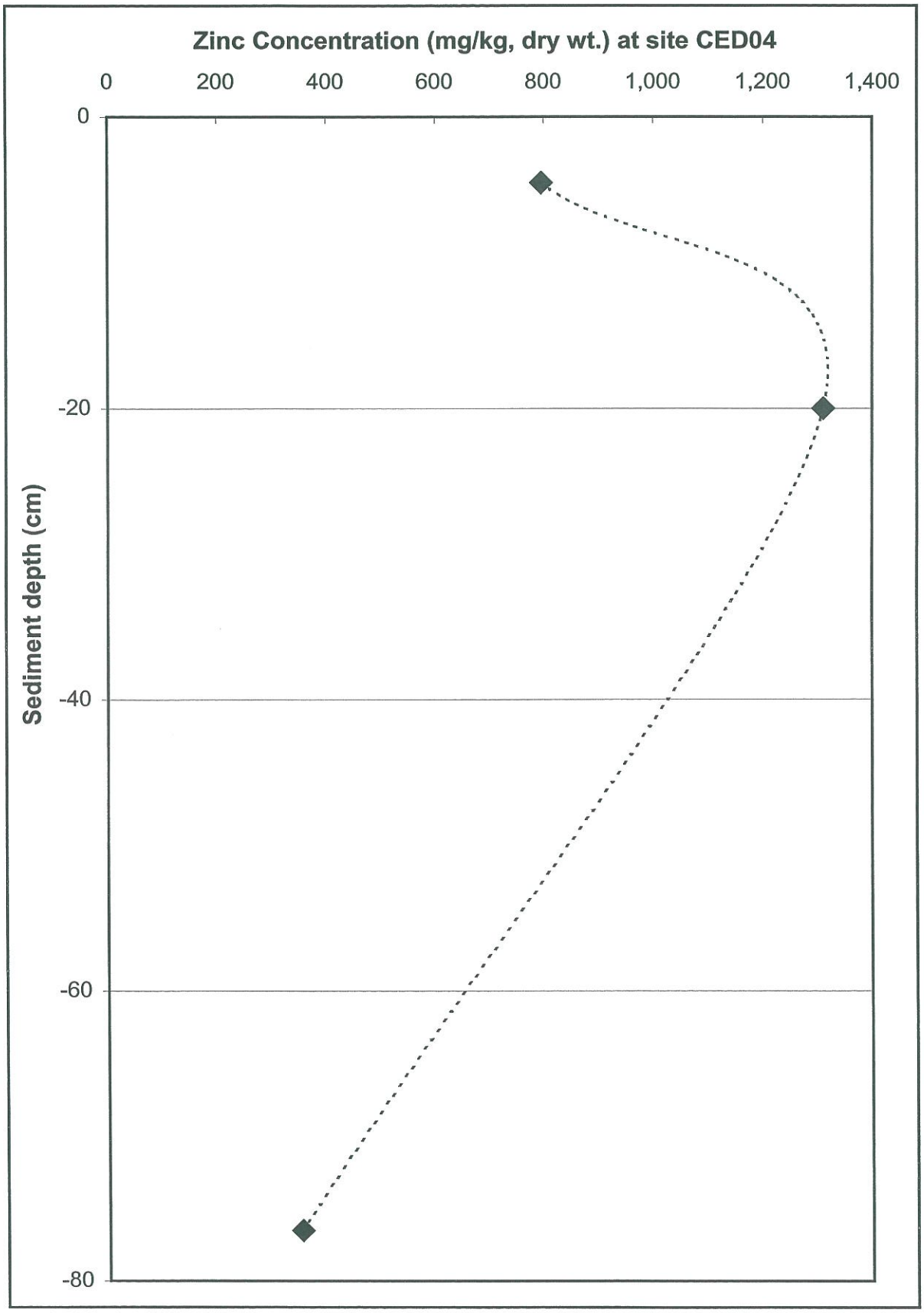

Mercury Concentration (mg/kg, dry wt.) at site ORT25
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
-30
-60
-90
-120
-150
Sediment depth (cm)

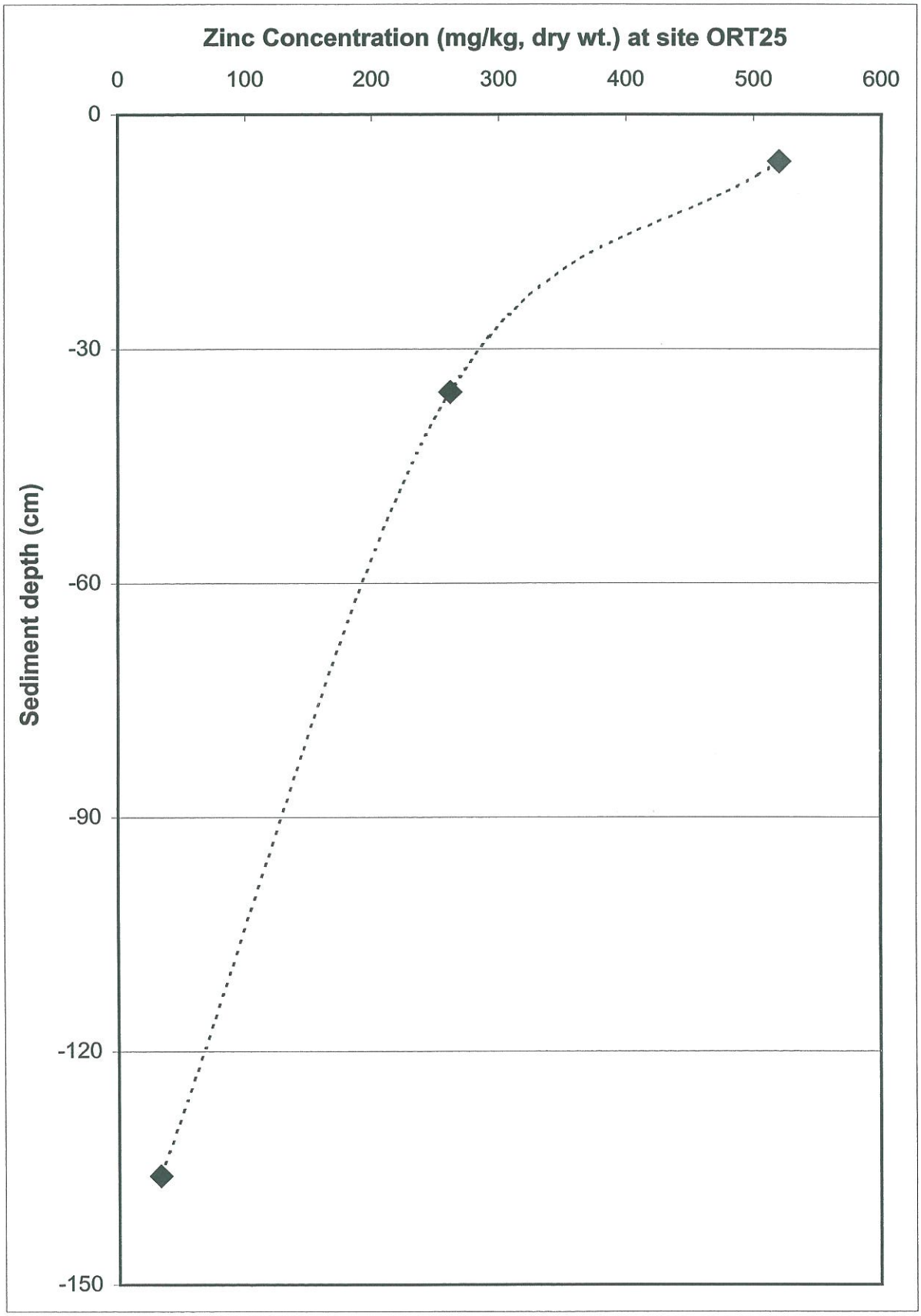

Mercury Concentration (mg/kg, dry wt.) at site ORT01
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
-30
-60
-90
-120
Sediment depth (cm)

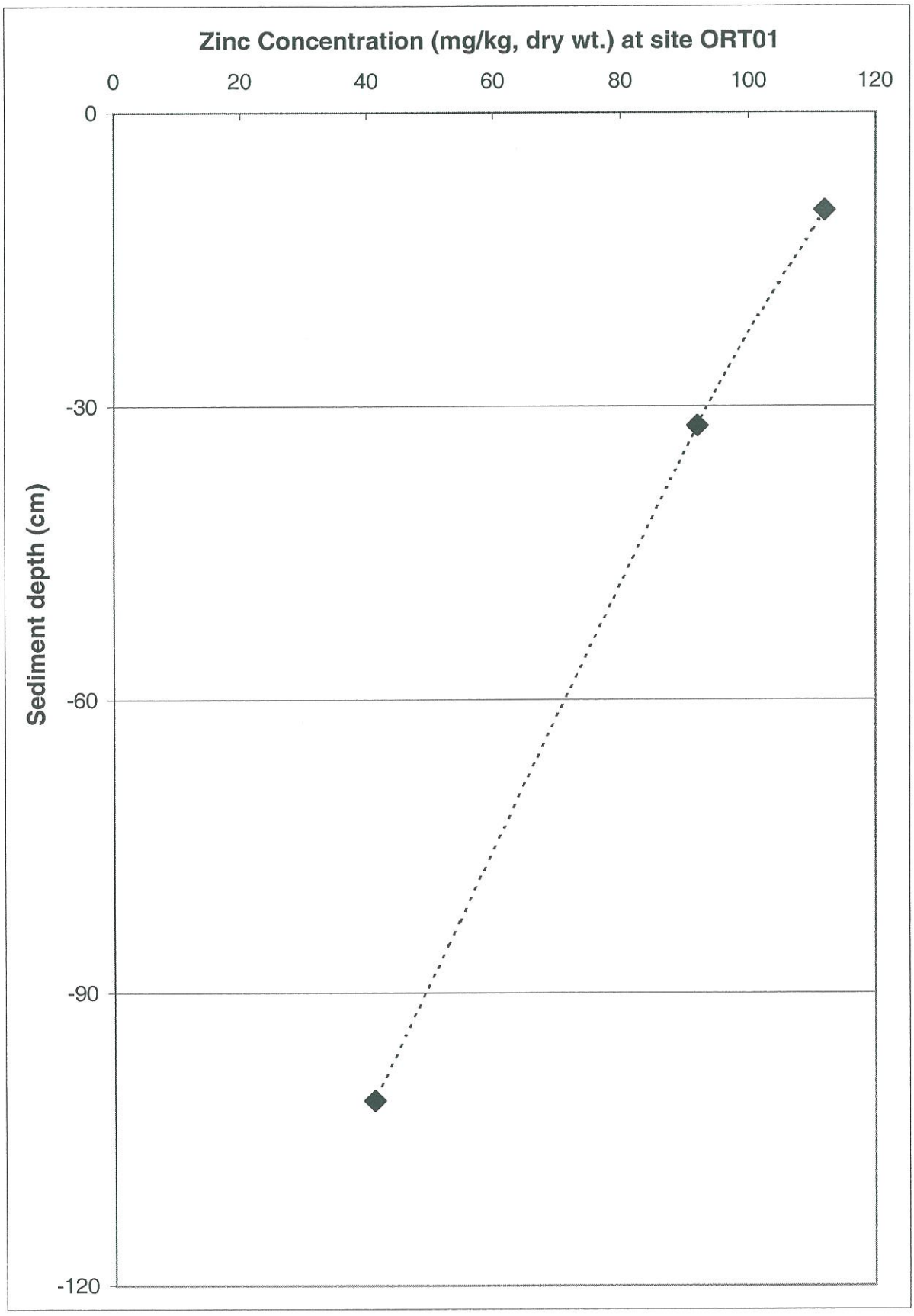

Silver Concentration (mg/kg, dry wt.) at site CED04
0.0
0.5
1.0
1.5
2.0
2.5
0
-20
-40
-60
-80
Sediment depth (cm)


Silver Concentration (mg/kg, dry wt.) at site ORT25
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
-30
-60
-90
-120
-150
Sediment depth (cm)

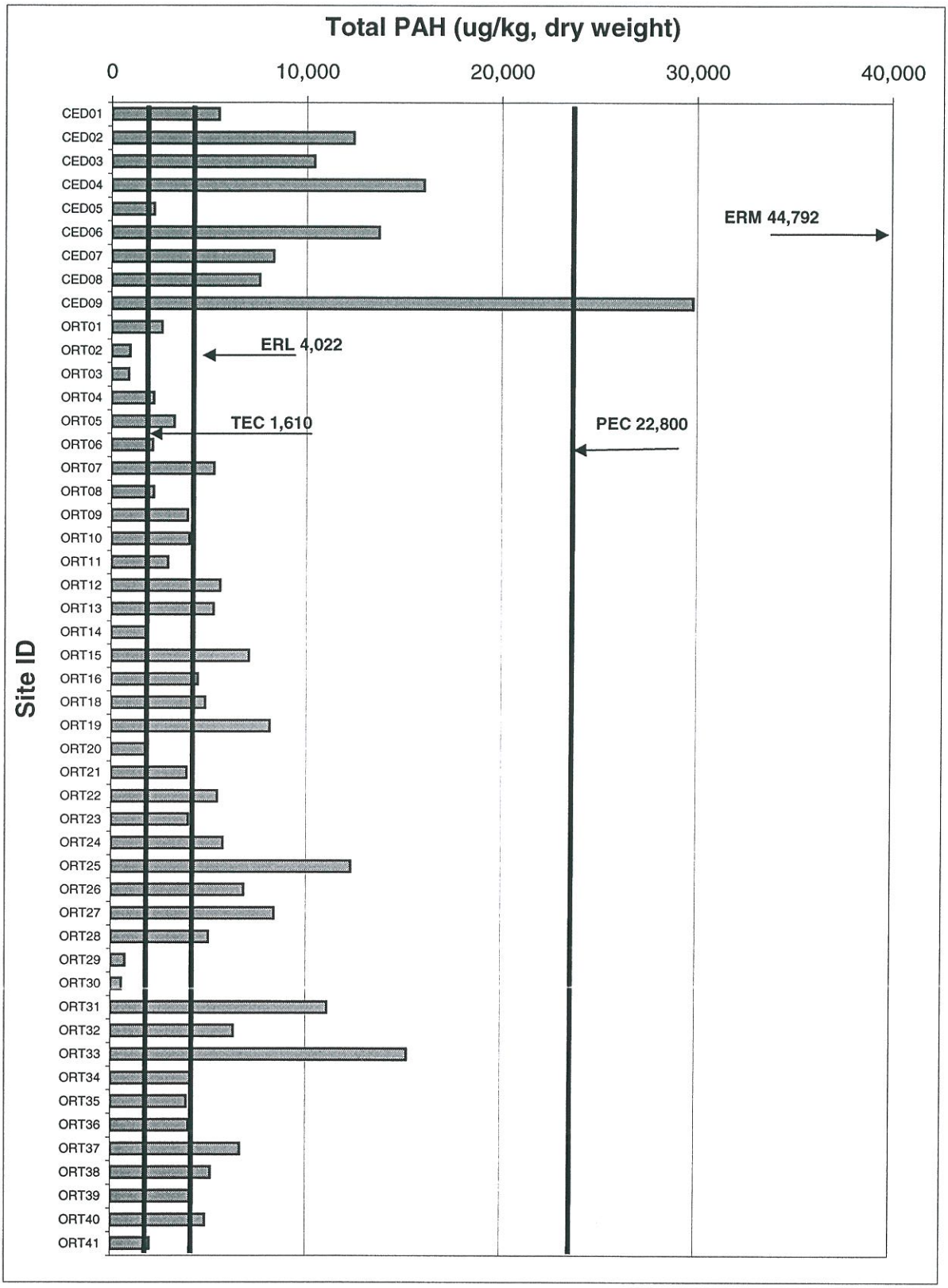

Silver Concentration (mg/kg, dry wt.) at site ORT01
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0
-30
-60
-90
-120
Sediment depth (cm)


Zinc Concentration (mg/kg, dry wt.) at site CED04
0
200
400
600
800
1,000
1,200
1,400
0
-20
-40
-60
-80
Sediment depth (cm)


Zinc Concentration (mg/kg, dry wt.) at site ORT25
0
100
200
300
400
500
600
0
-30
-60
-90
-120
-150
Sediment depth (cm)


Zinc Concentration (mg/kg, dry wt.) at site ORT01
0
20
40
60
80
100
120
0
-30
-60
-90
-120
Sediment depth (cm)

Appendix P. Charts with Surface Sediment Contaminant Levels versus TEC, PEC, ERLs, and ERMs


Total PAH (ug/kg, dry weight)
0
10,000
20,000
30,000
40,000
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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ORT31
ORT32
ORT33
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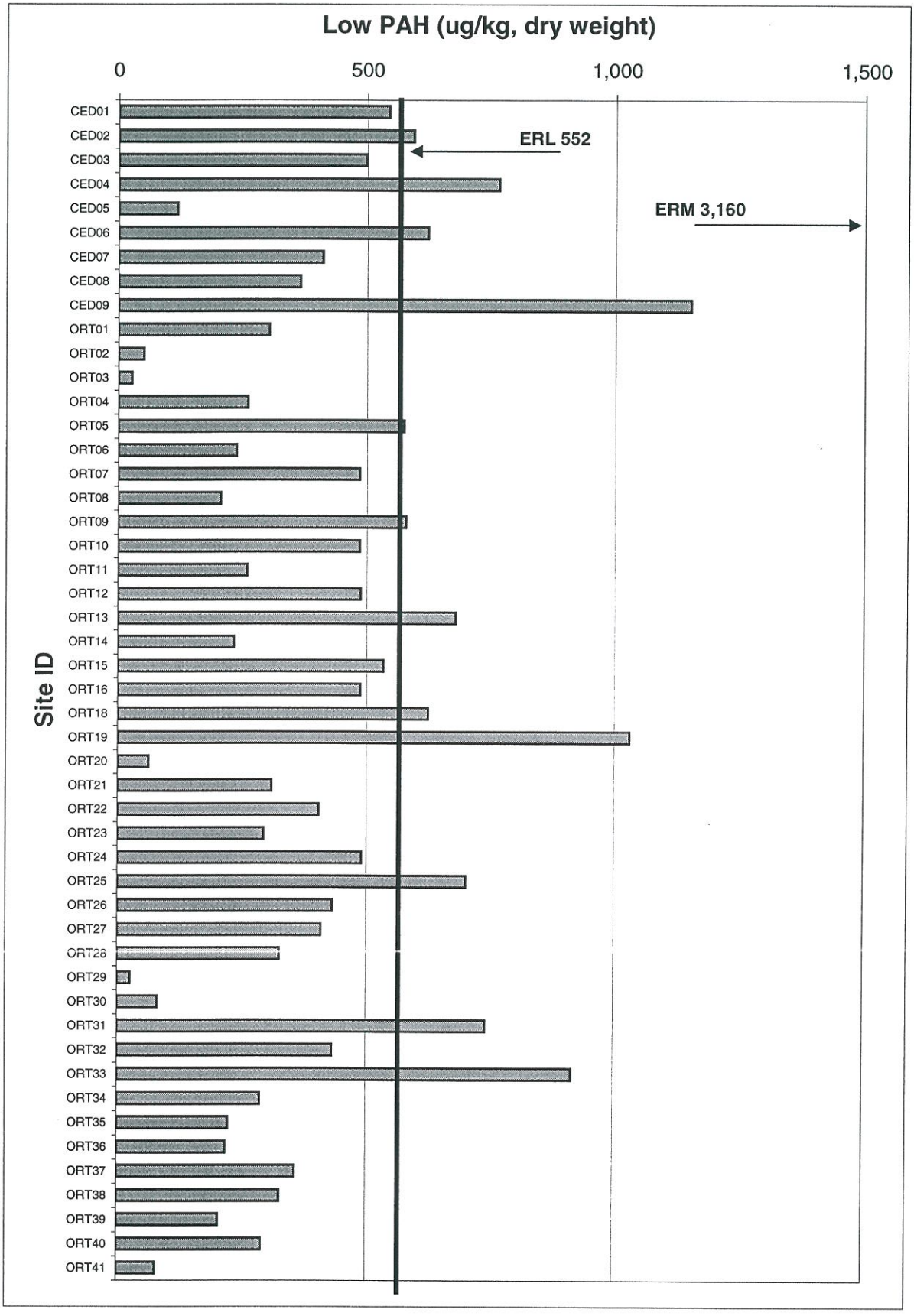
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERM 44,792
ERL 4,022
TEC 1,610
PEC 22,800


Low PAH (ug/kg, dry weight)
0
500
1,000
1,500
ERL 552
ERM 3,160
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
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ORT11
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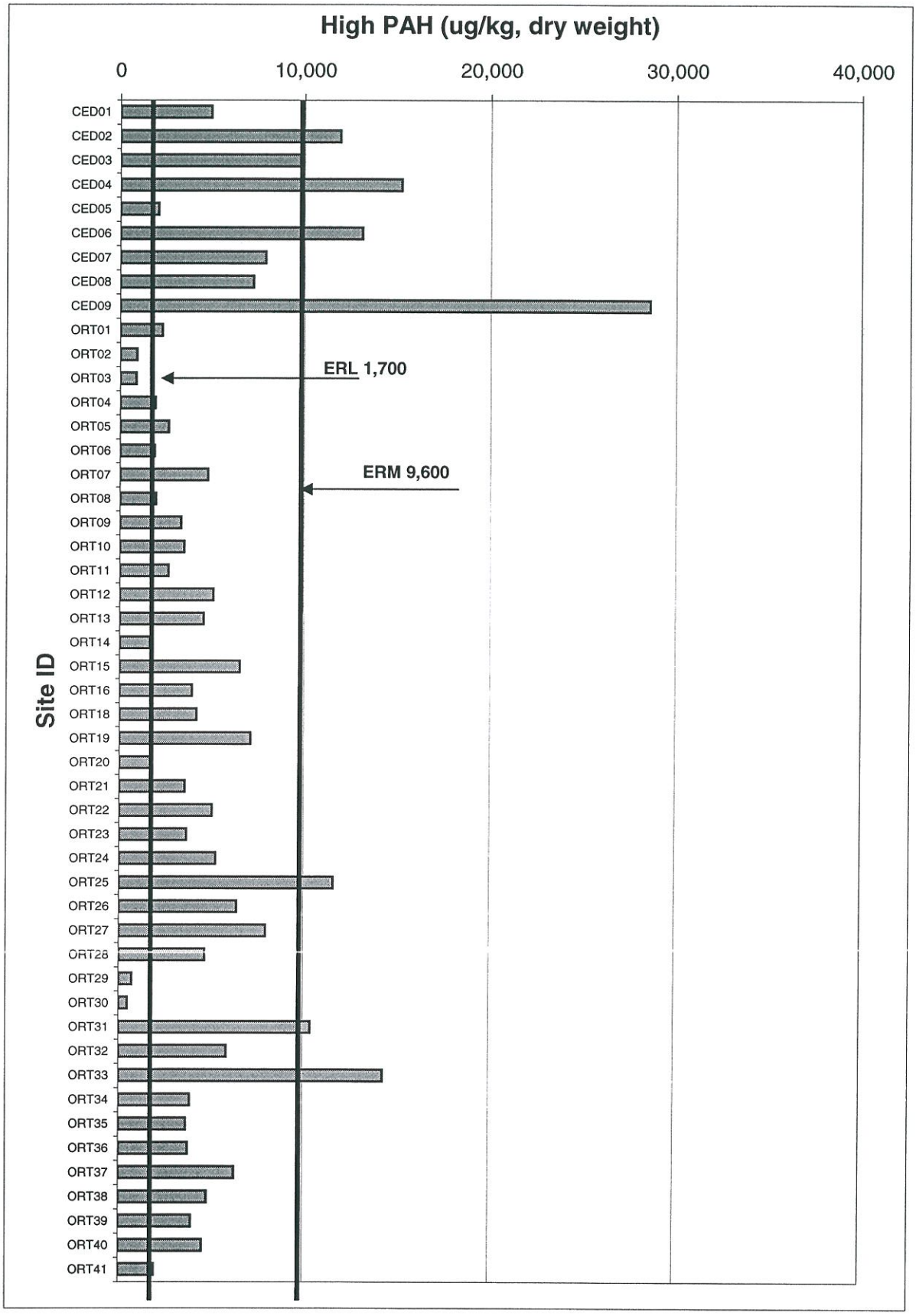
ORT37
ORT38
ORT39
ORT40
ORT41


High PAH (ug/kg, dry weight)
0
10,000
20,000
30,000
40,000
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
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ORT16
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ORT29
ORT30
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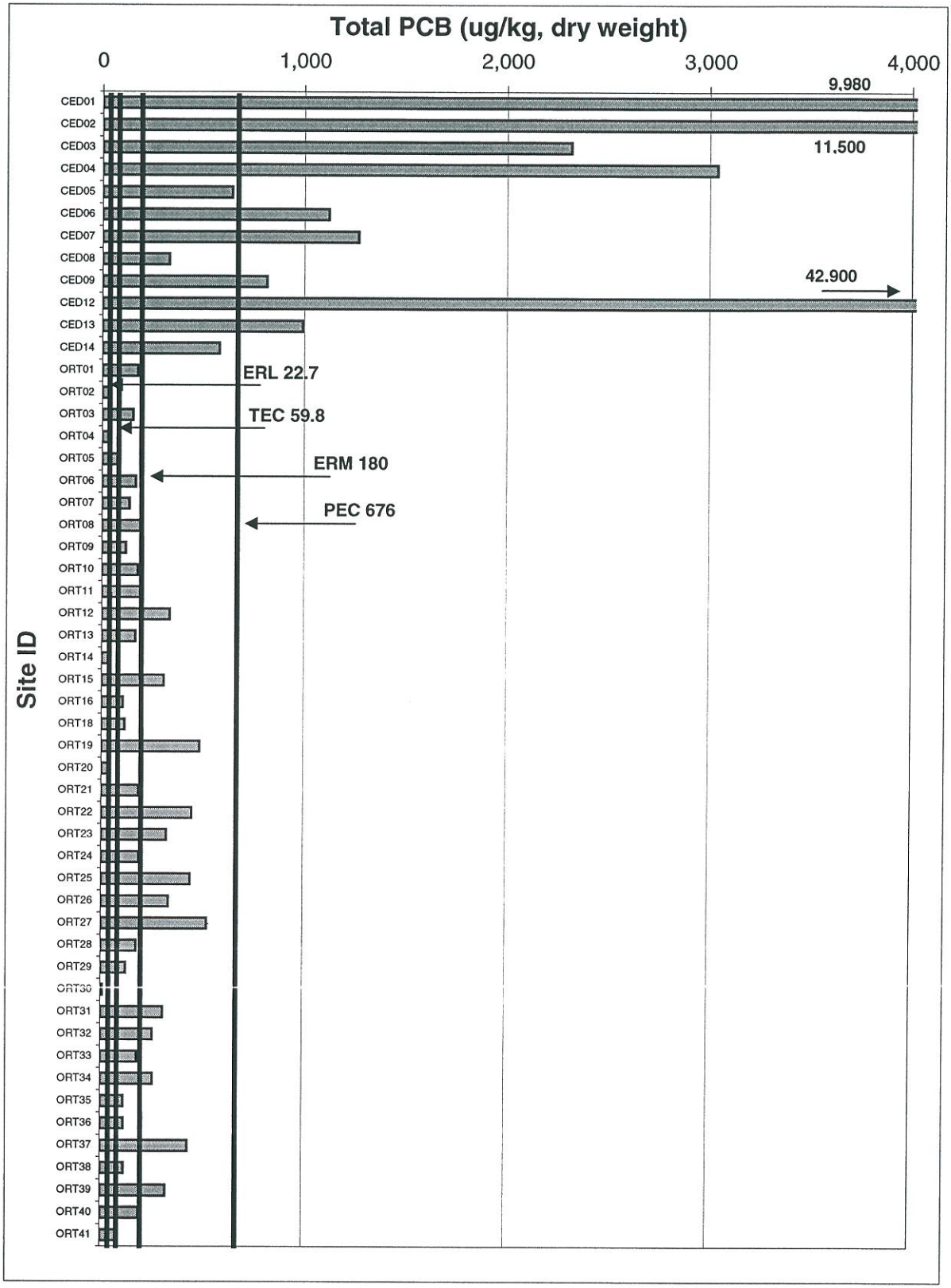
ORT32
ORT33
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 1,700
ERM 9,600


Total PCB (ug/kg, dry weight)
0
1,000
2,000
3,000
4,000
9,980
11,500
42,900
ERL 22.7
TEC 59.8
ERM 180
PEC 676
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
CED12
CED13
CED14
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
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ORT38
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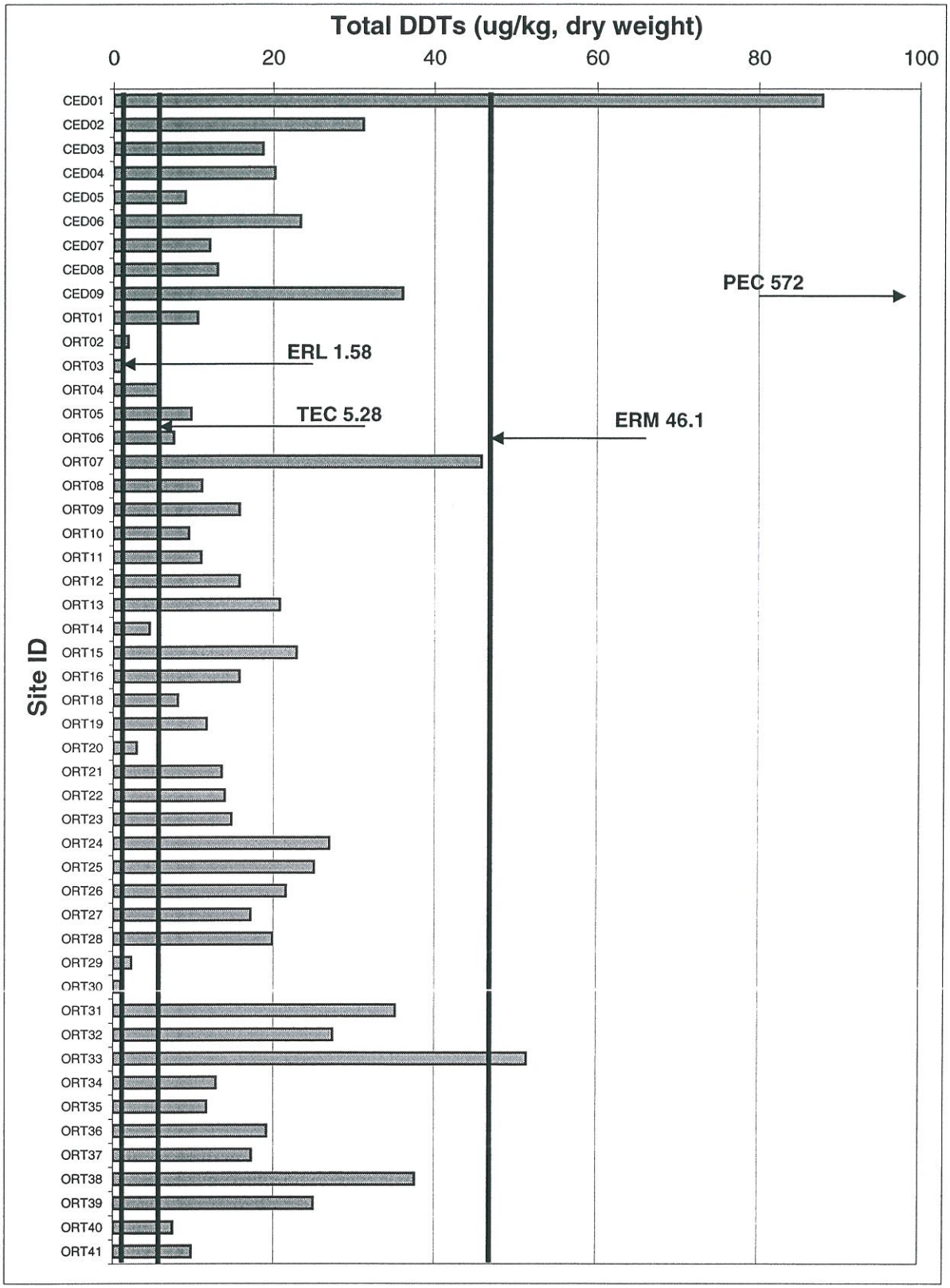
ORT40
ORT41


Total DDTs (ug/kg, dry weight)
0
20
40
60
80
100
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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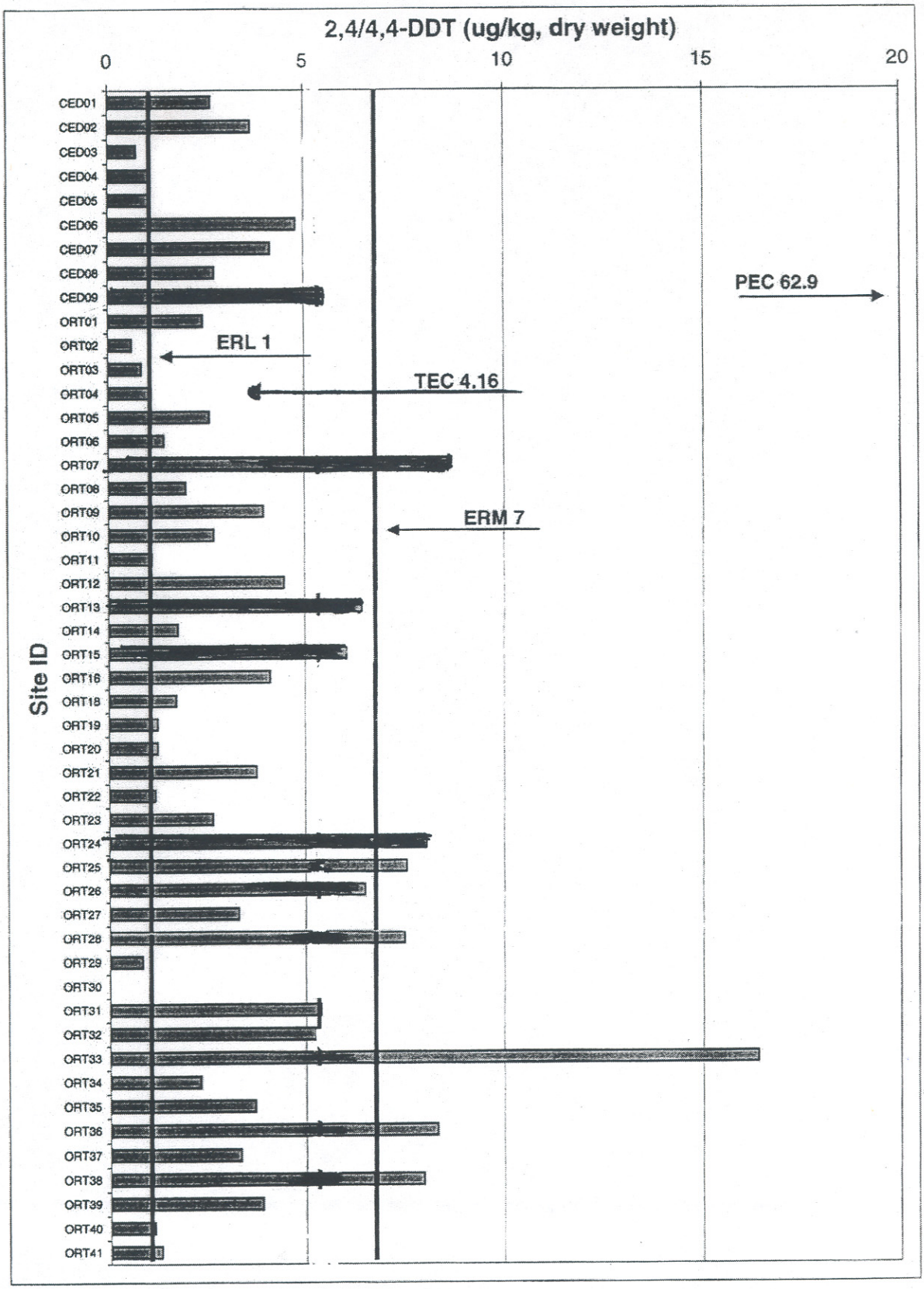
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
PEC 572
ERL 1.58
TEC 5.28
ERM 46.1


2,4/4,4-DDT (ug/kg, dry weight)
0
5
10
15
20
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
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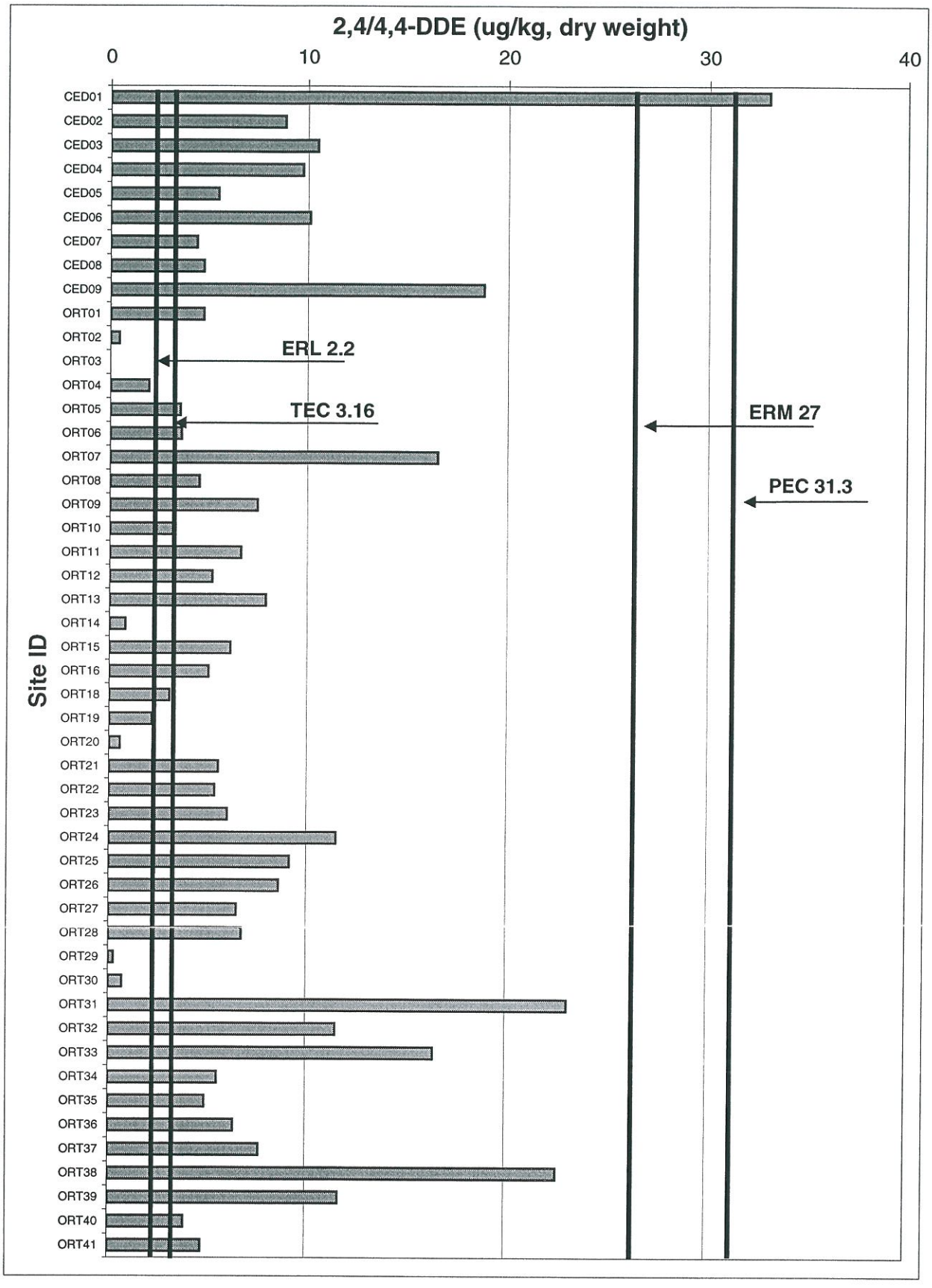
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
PEC 62.9
ERL 1
TEC 4.16
ERM 7


2,4/4,4-DDE (ug/kg, dry weight)
0
10
20
30
40
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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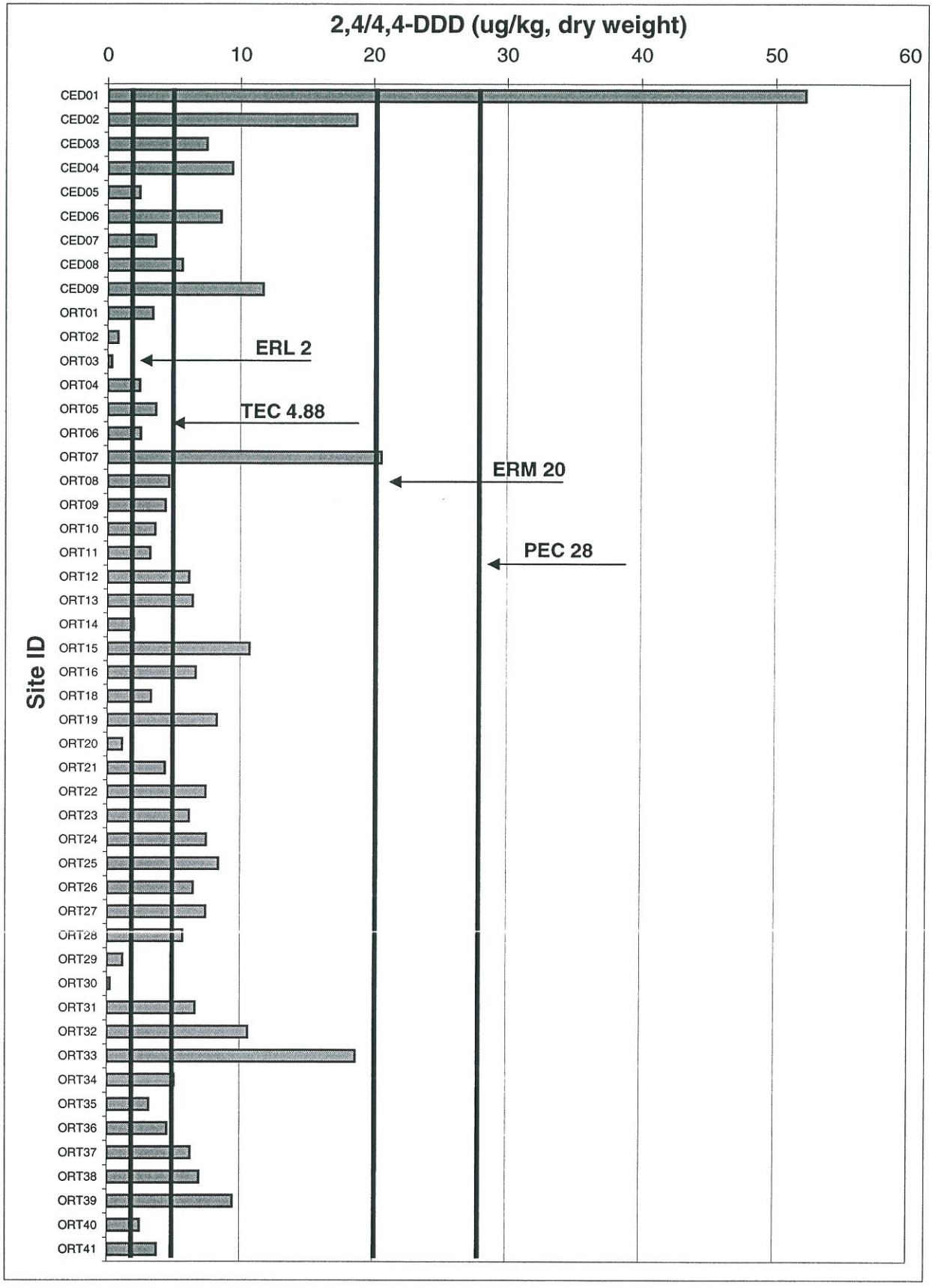
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 2.2
TEC 3.16
ERM 27
PEC 31.3


2,4/4,4-DDD (ug/kg, dry weight)
0
10
20
30
40
50
60
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
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ORT38
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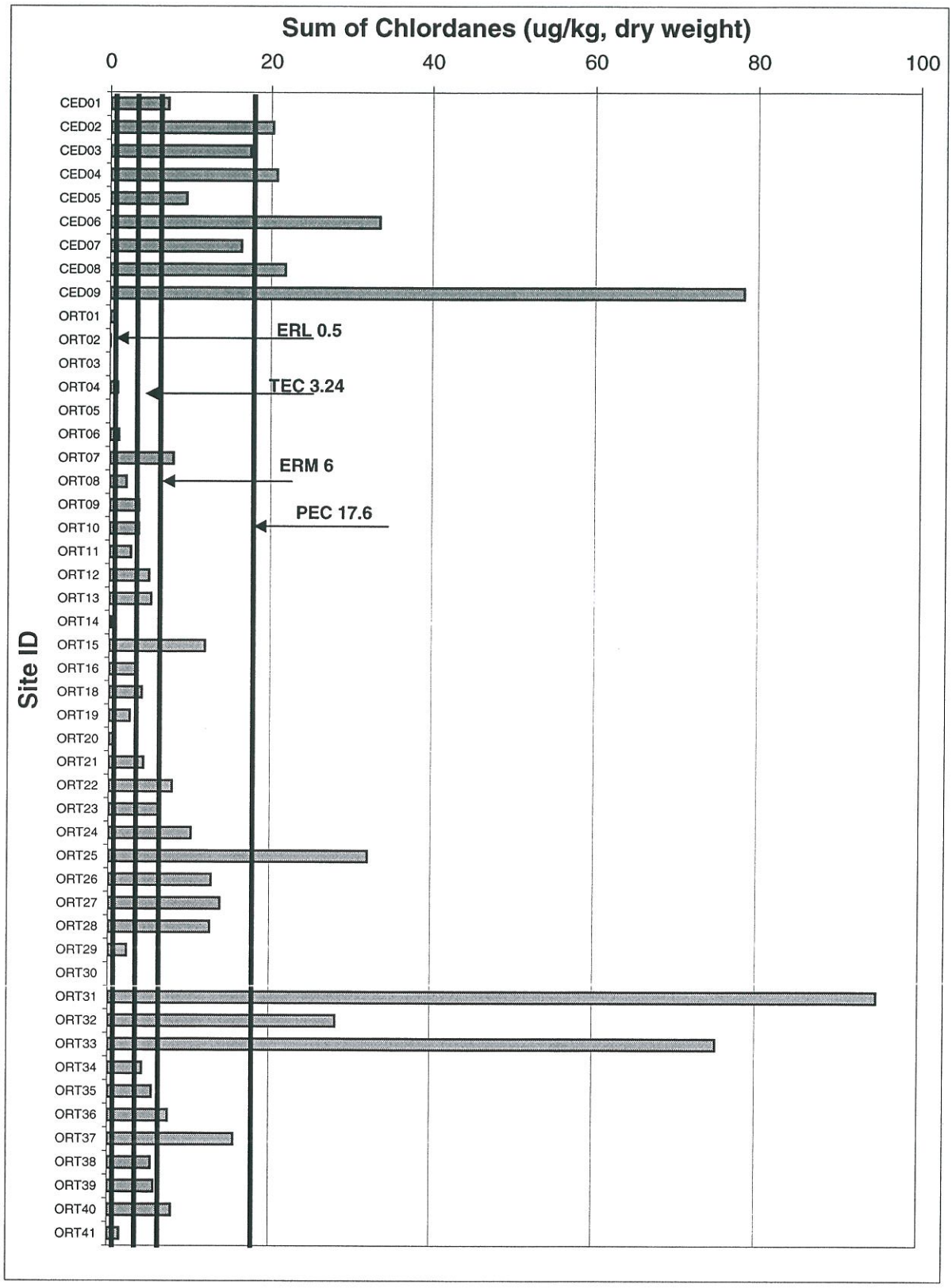
ORT40
ORT41
ERL 2
TEC 4.88
ERM 20
PEC 28


Sum of Chlordanes (ug/kg, dry weight)
0
20
40
60
80
100
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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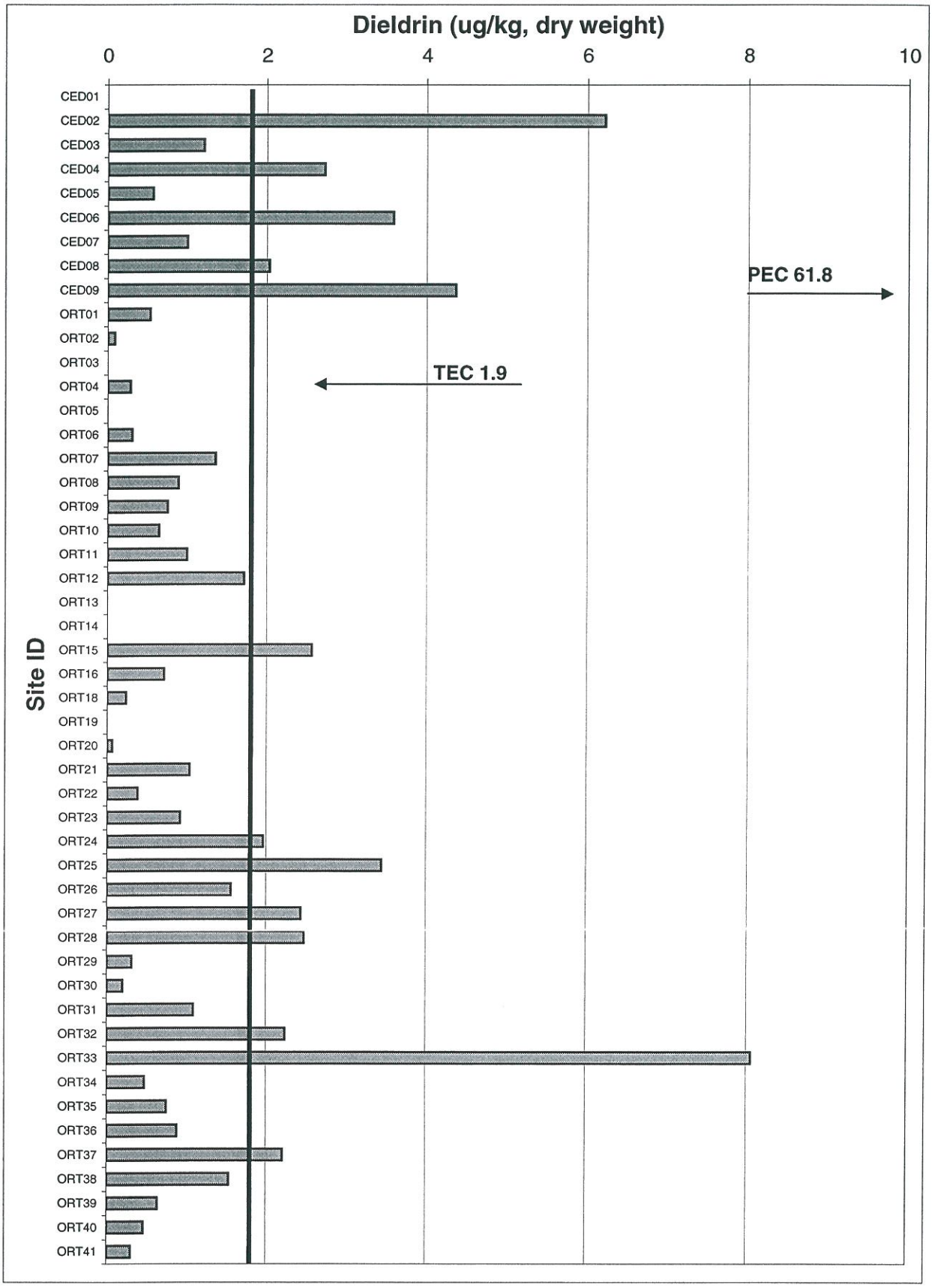
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 0.5
TEC 3.24
ERM 6
PEC 17.6


Dieldrin (ug/kg, dry weight)
0
2
4
6
8
10
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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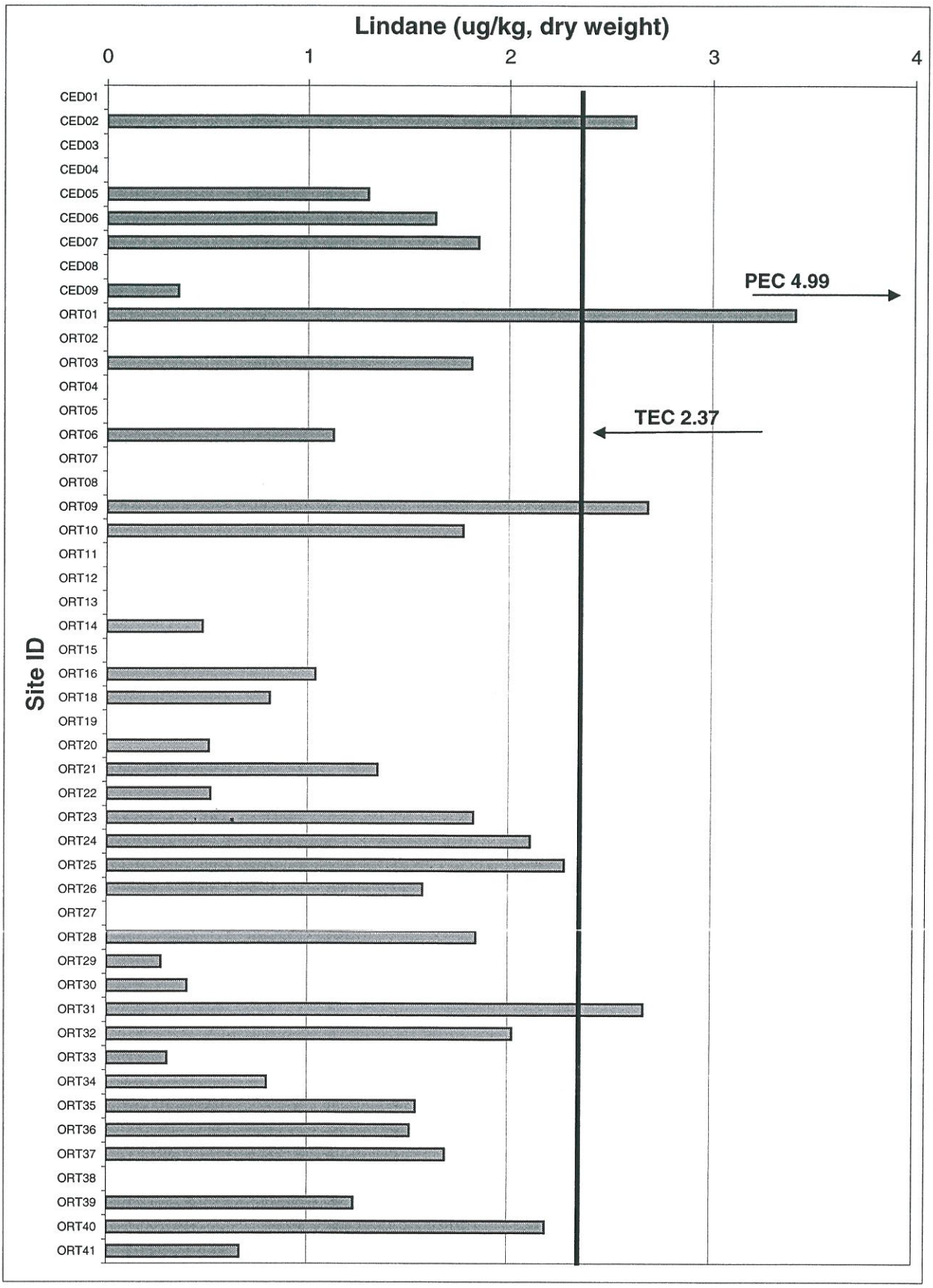
ORT39
ORT40
ORT41
PEC 61.8
TEC 1.9


Lindane (ug/kg, dry weight)
0
1
2
3
4
Site ID
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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ORT34
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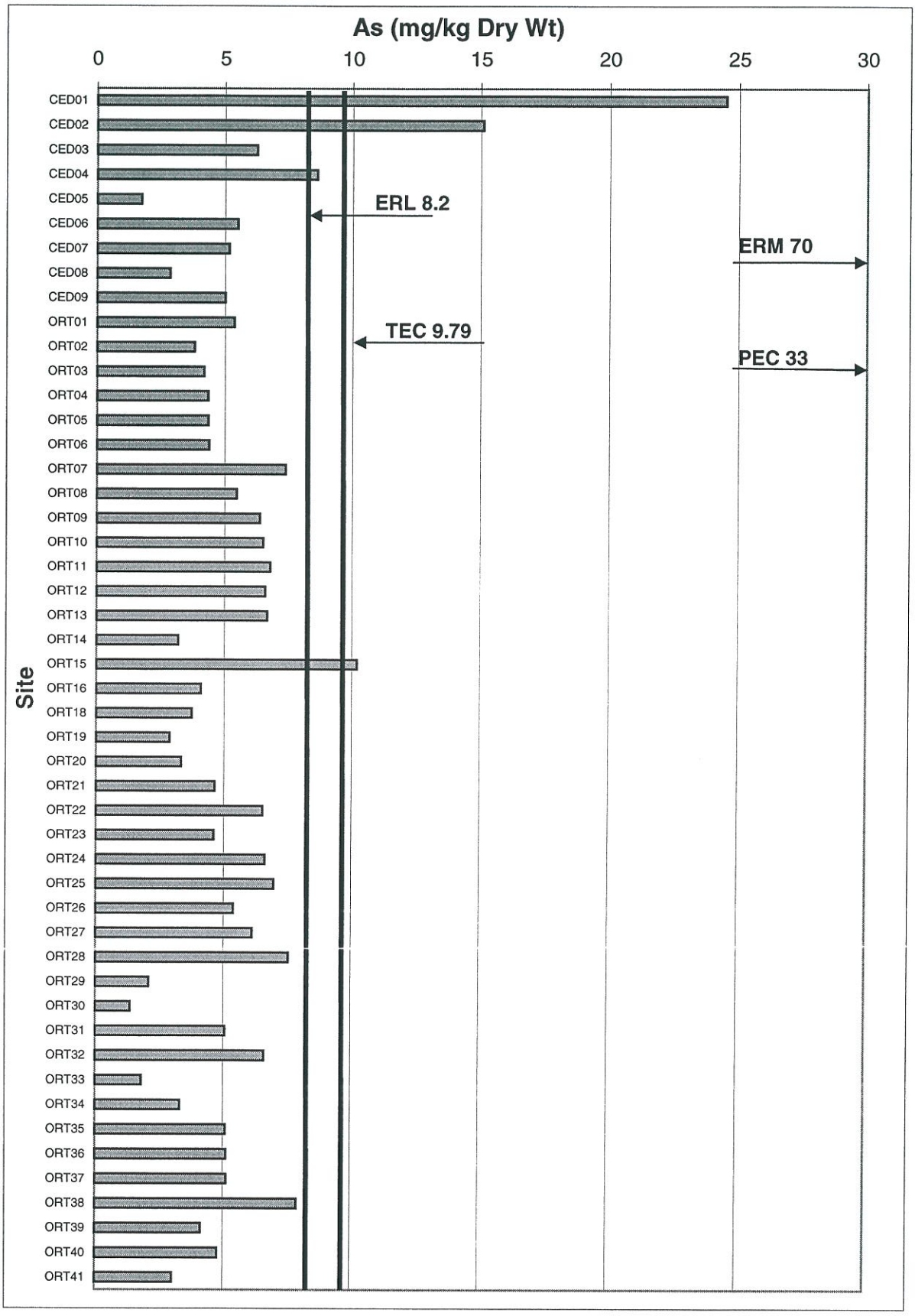
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
PEC 4.99
TEC 2.37


As (mg/kg Dry Wt)
0
5
10
15
20
25
30
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
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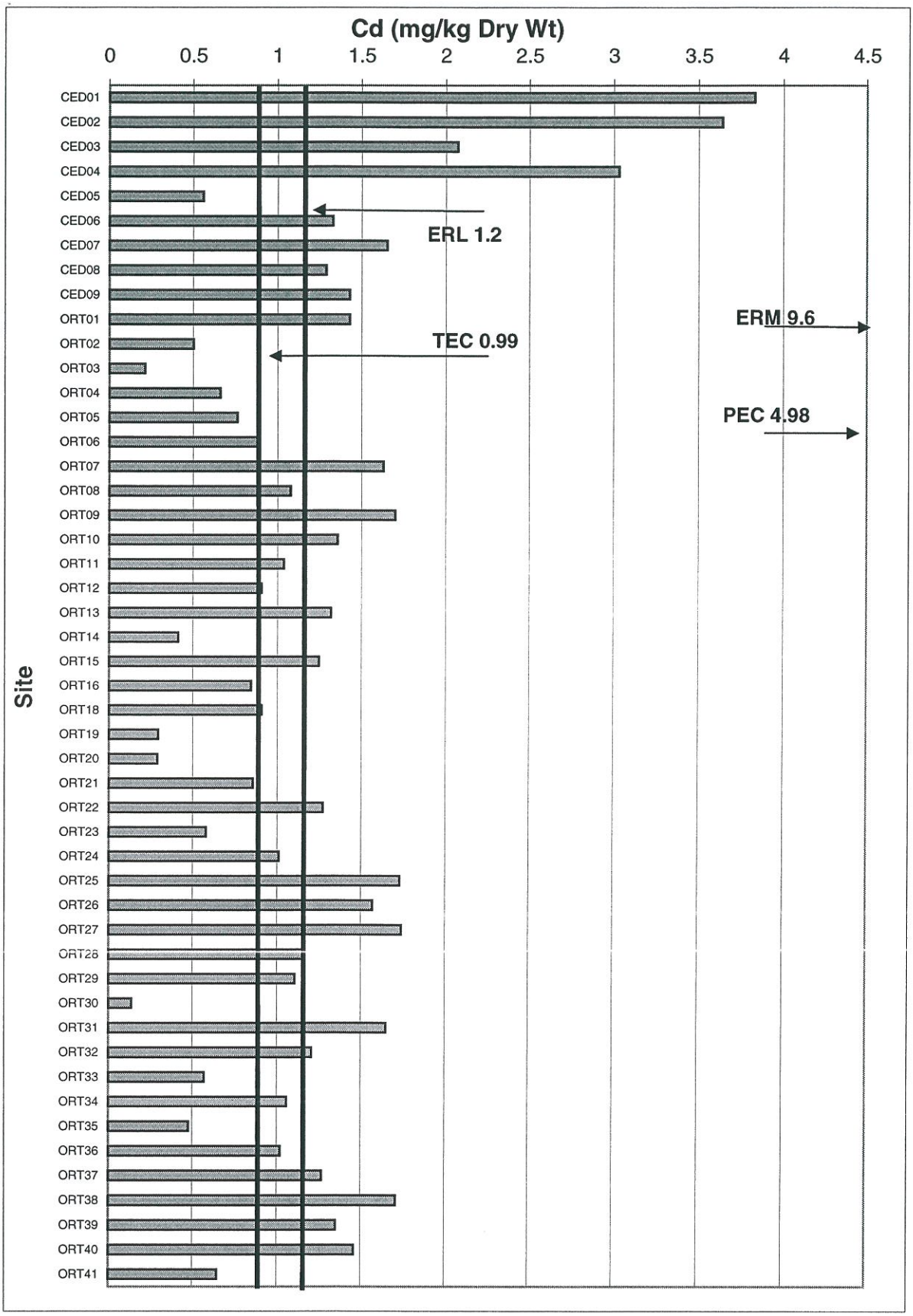
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 8.2
TEC 9.79
ERM 70
PEC 33


Cd (mg/kg Dry Wt)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
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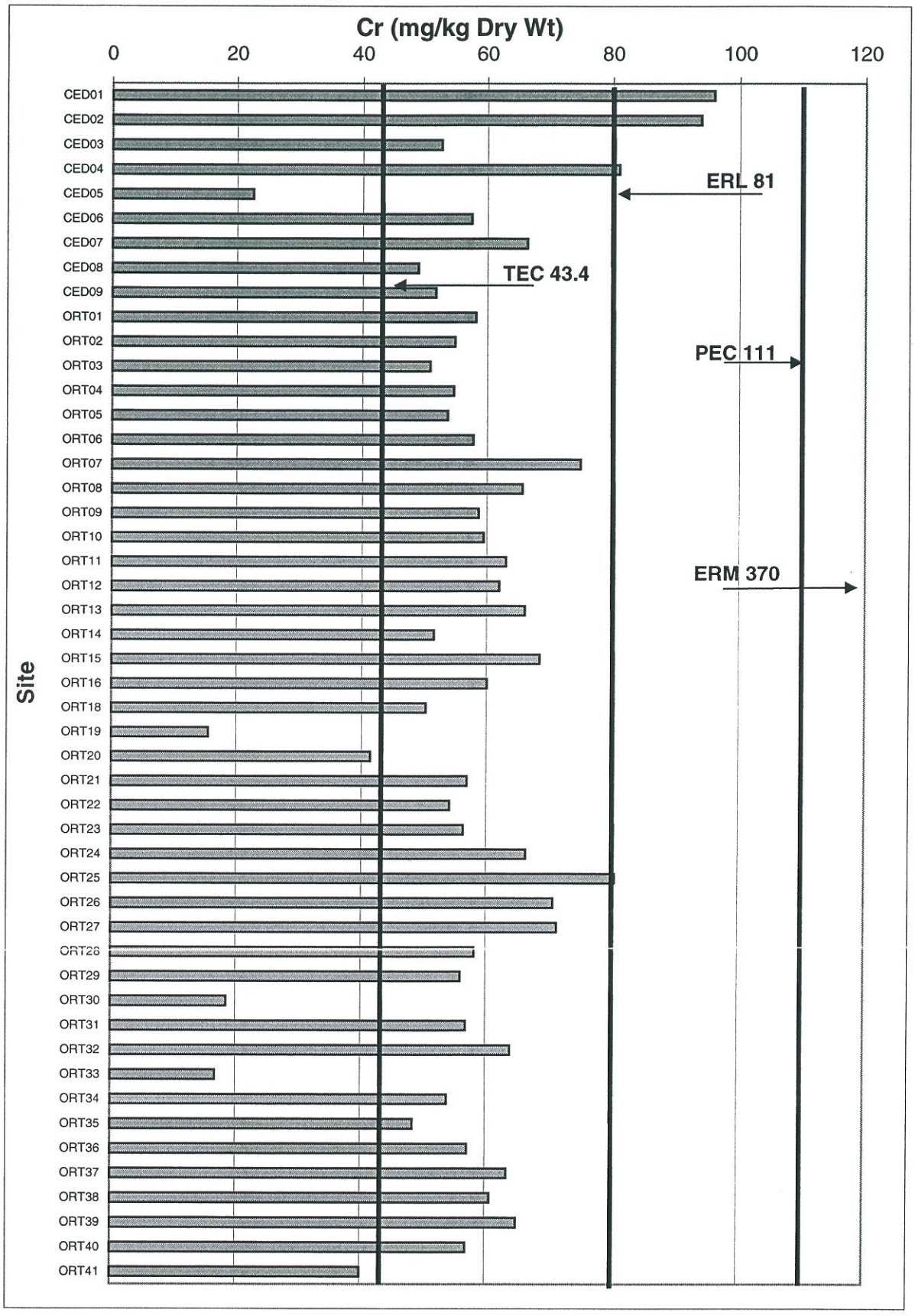
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 1.2
TEC 0.99
ERM 9.6
PEC 4.98


Cr (mg/kg Dry Wt)
0
20
40
60
80
100
120
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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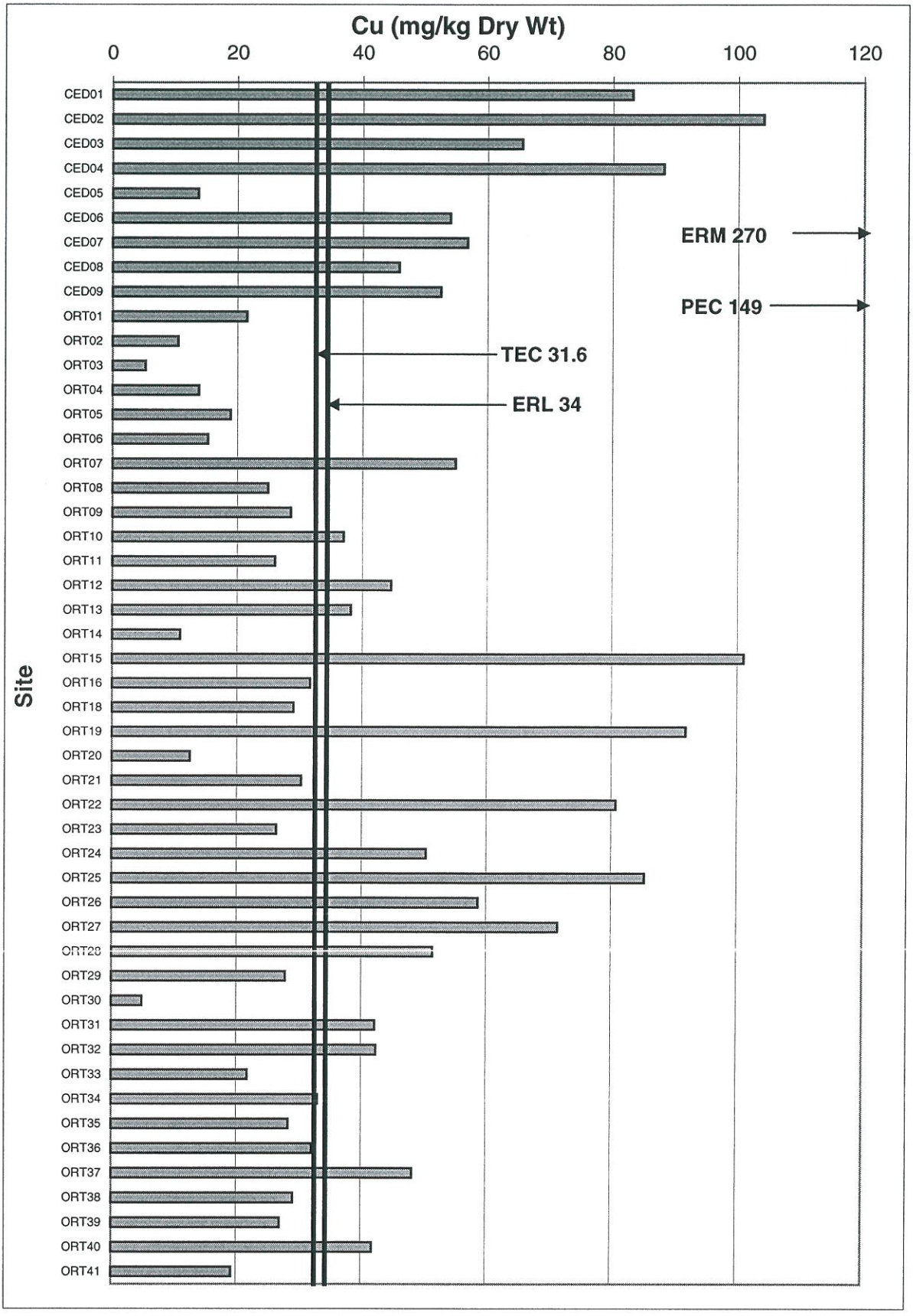
ORT41
ERL 81
TEC 43.4
PEC 111
ERM 370


Cu (mg/kg Dry Wt)
0
20
40
60
80
100
120
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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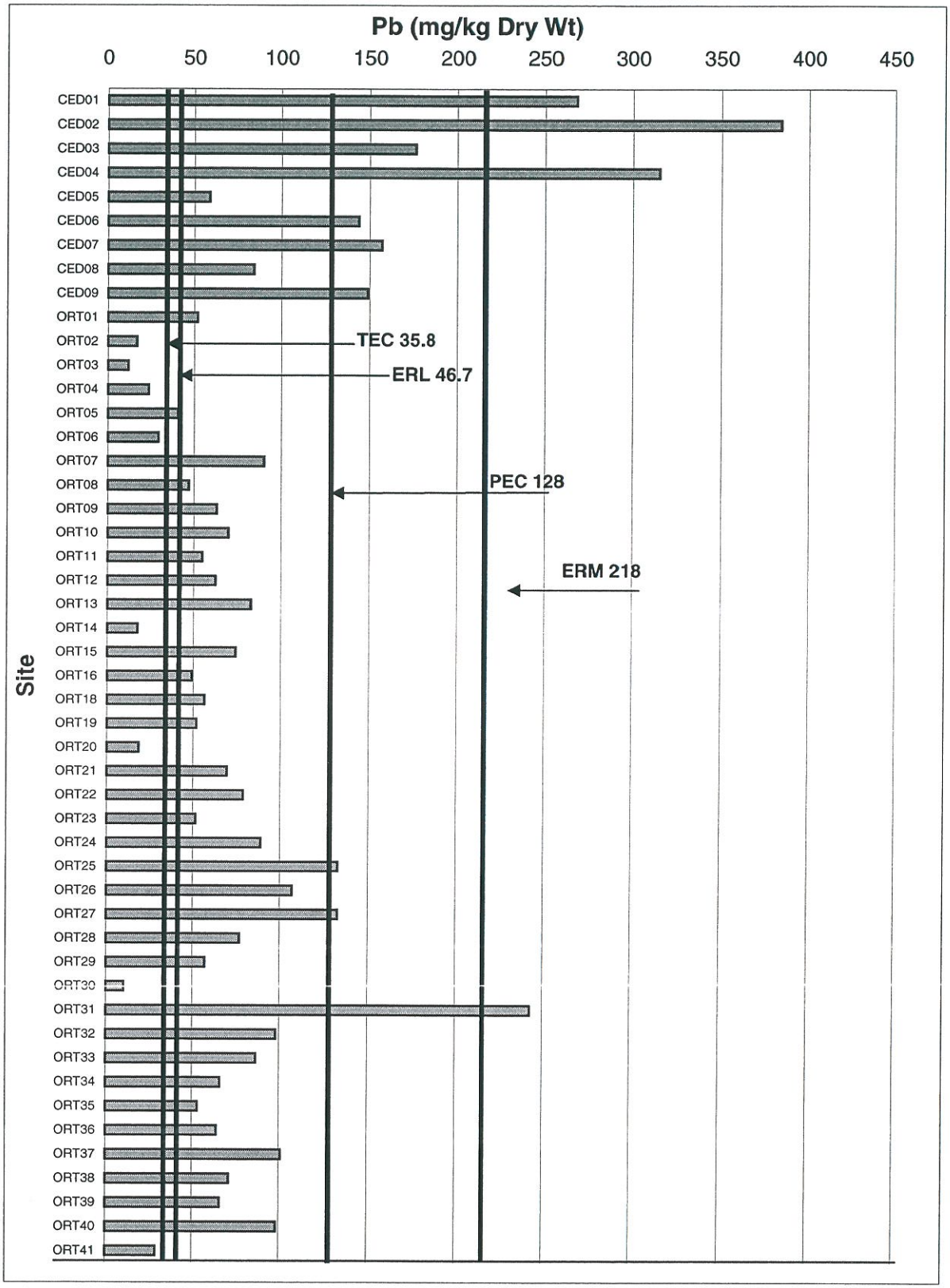
ORT37
ORT38
ORT39
ORT40
ORT41
ERM 270
PEC 149
TEC 31.6
ERL 34


Pb (mg/kg Dry Wt)
0
50
100
150
200
250
300
350
400
450
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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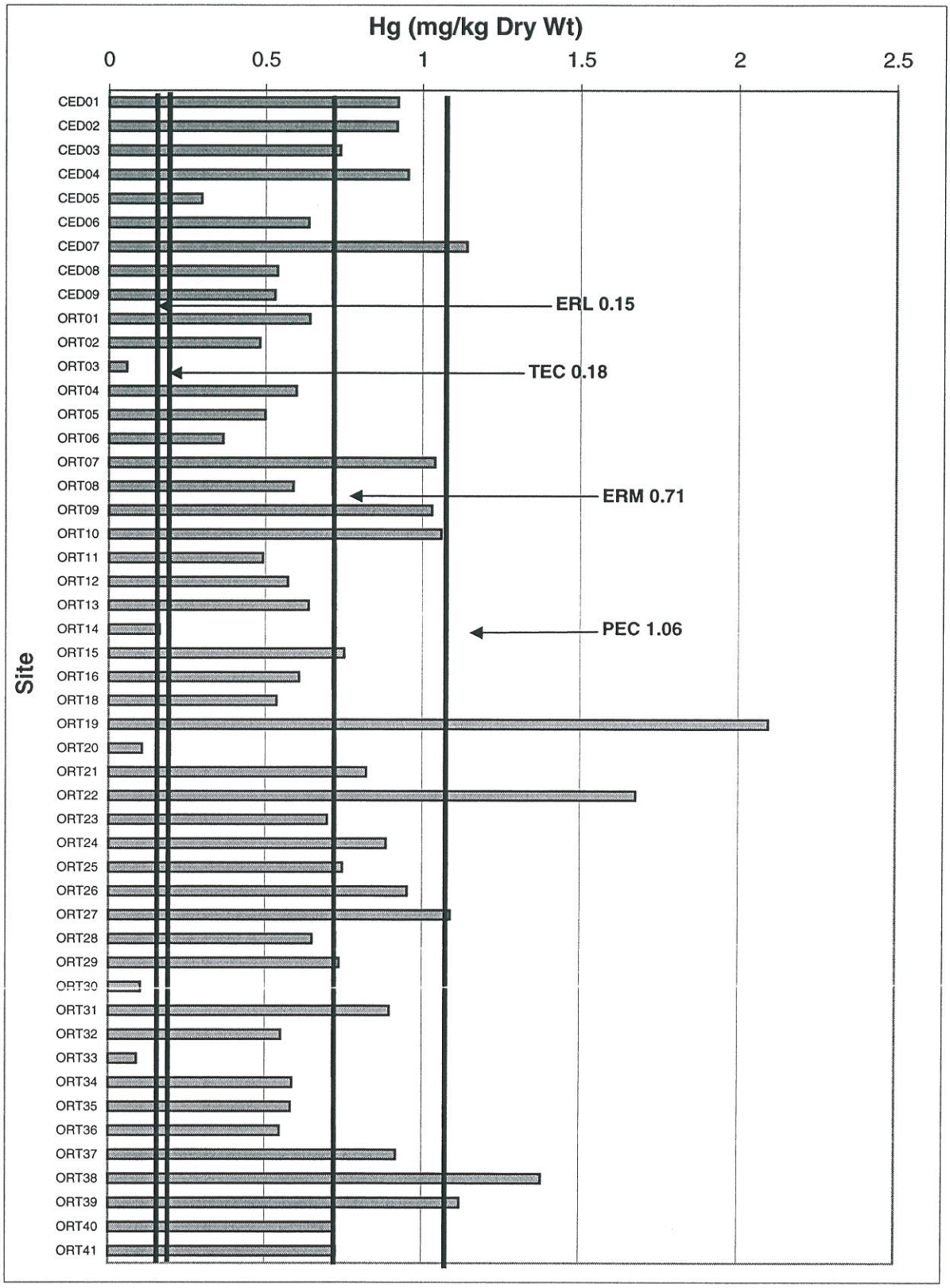
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
TEC 35.8
ERL 46.7
PEC 128
ERM 218


Hg (mg/kg Dry Wt)
0
0.5
1
1.5
2
2.5
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
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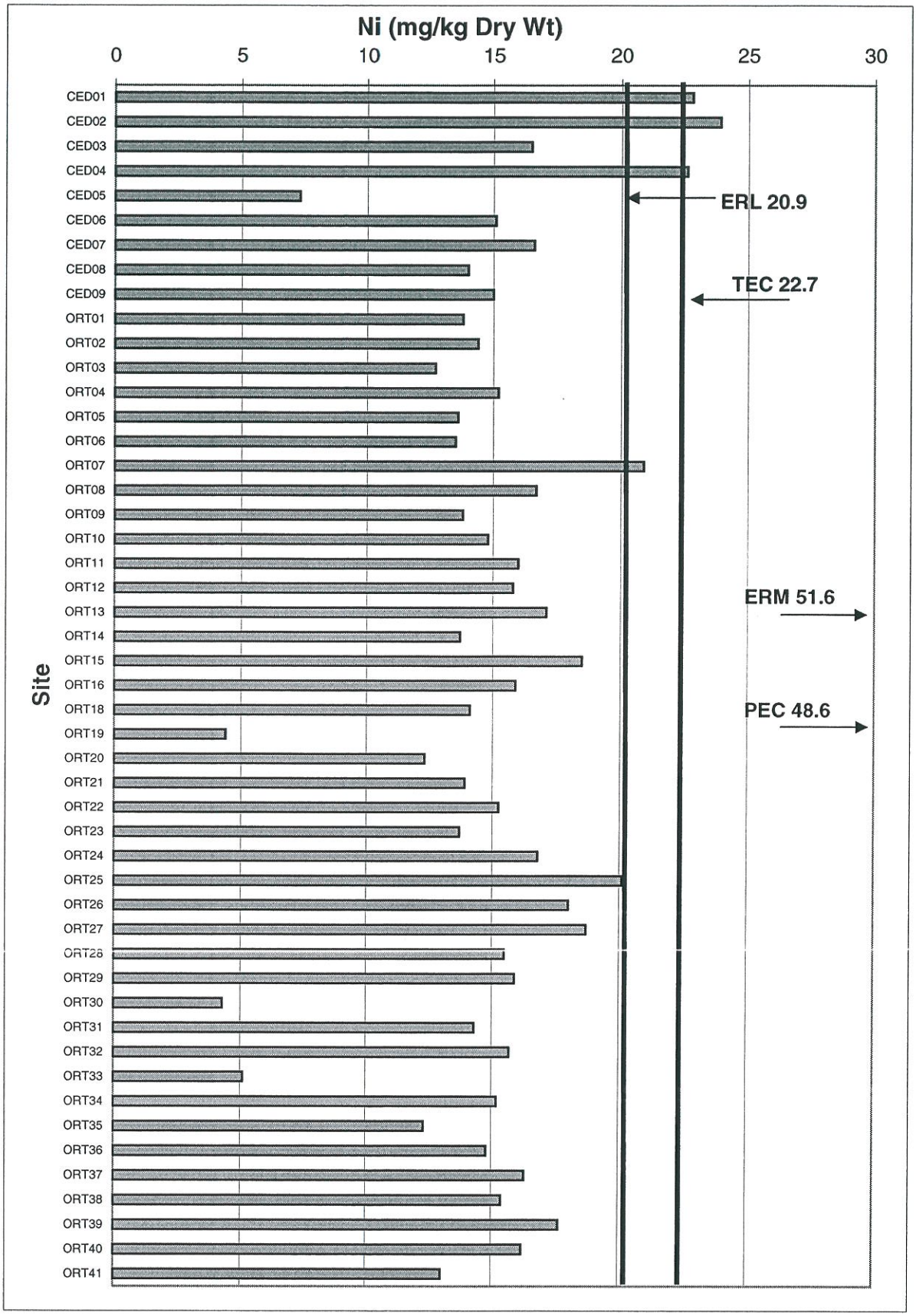
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 0.15
TEC 0.18
ERM 0.71
PEC 1.06


Ni (mg/kg Dry Wt)
0
5
10
15
20
25
30
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
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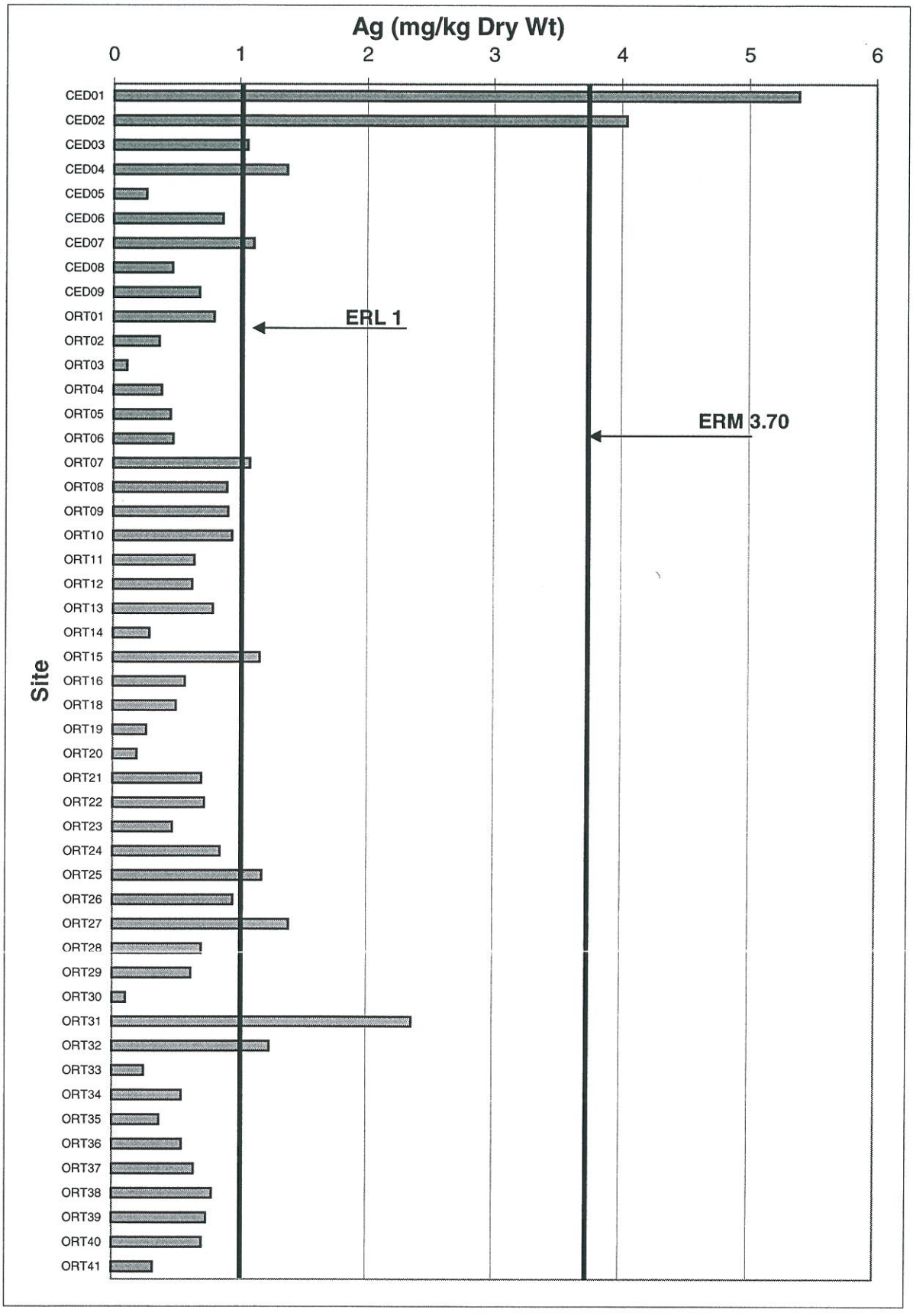
ORT33
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 20.9
TEC 22.7
ERM 51.6
PEC 48.6


Ag (mg/kg Dry Wt)
0
1
2
3
4
5
6
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
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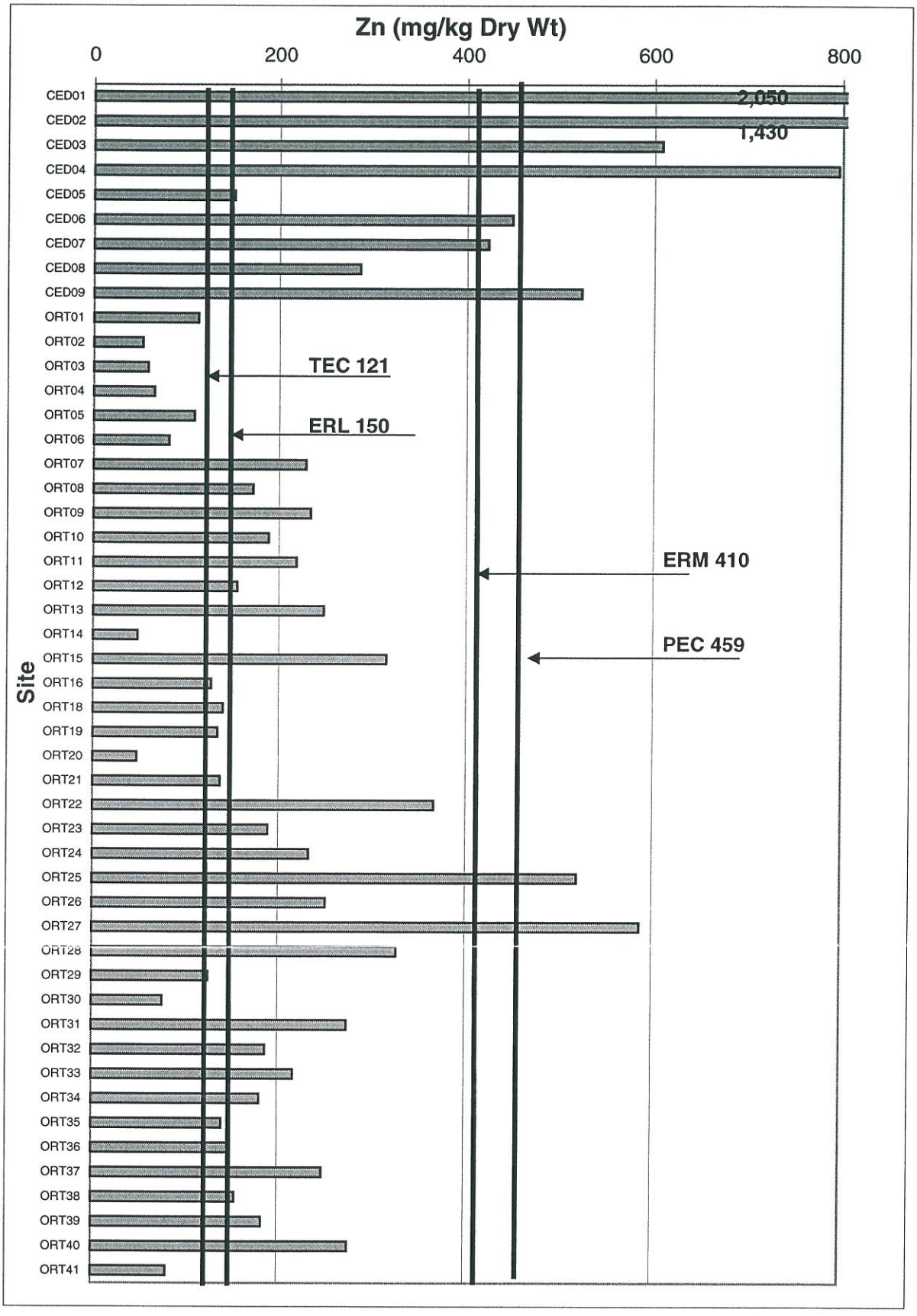
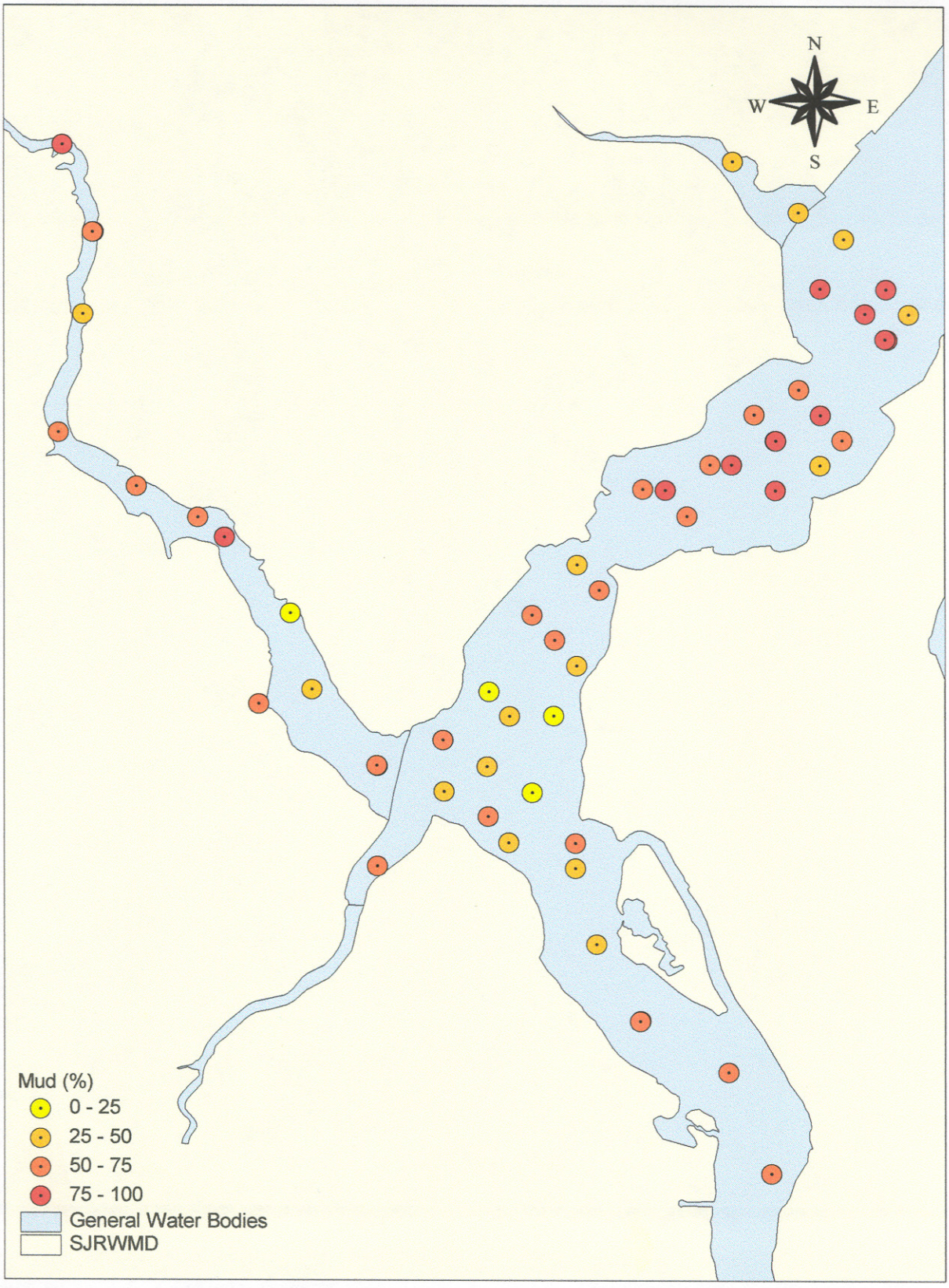
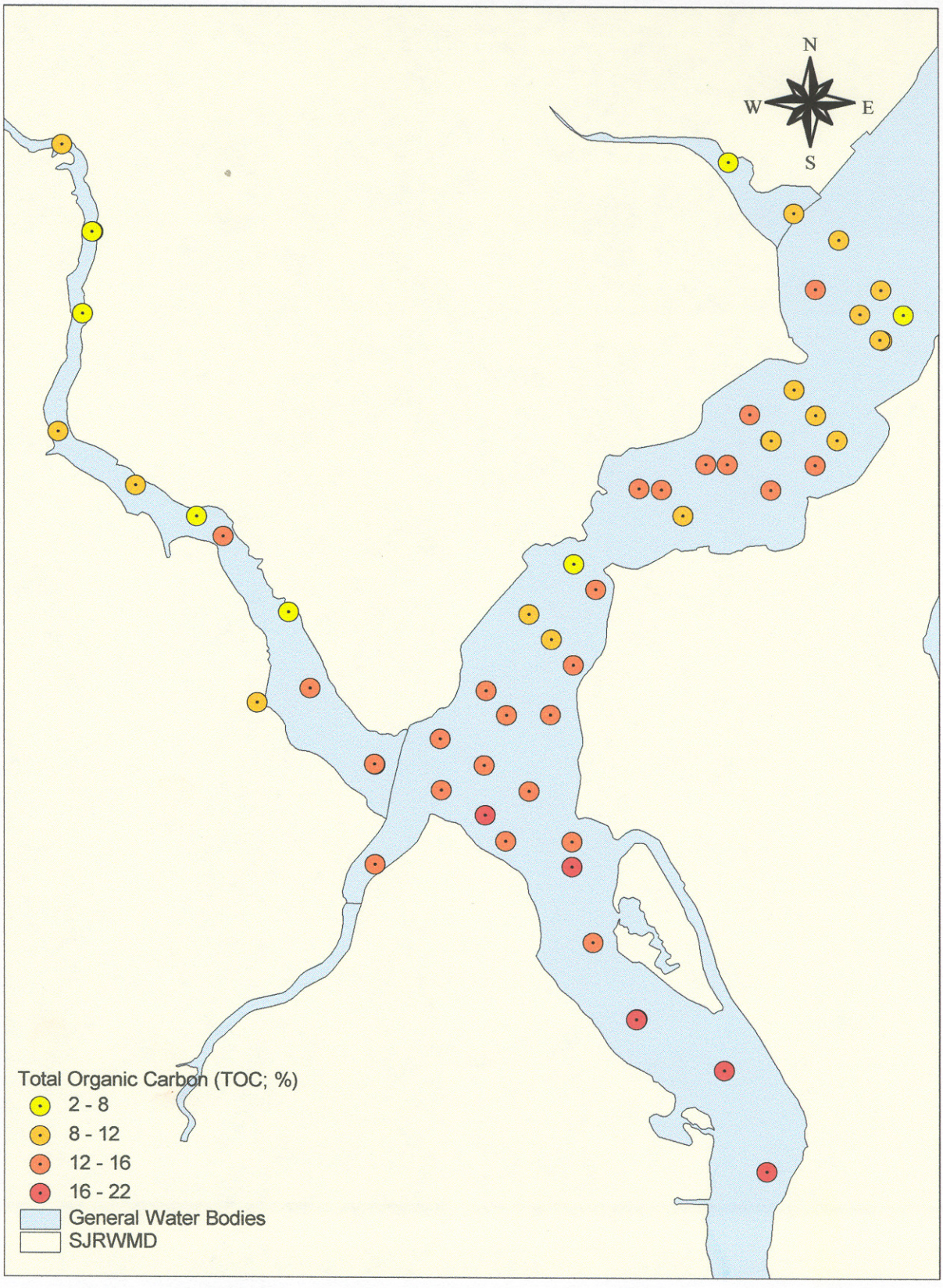
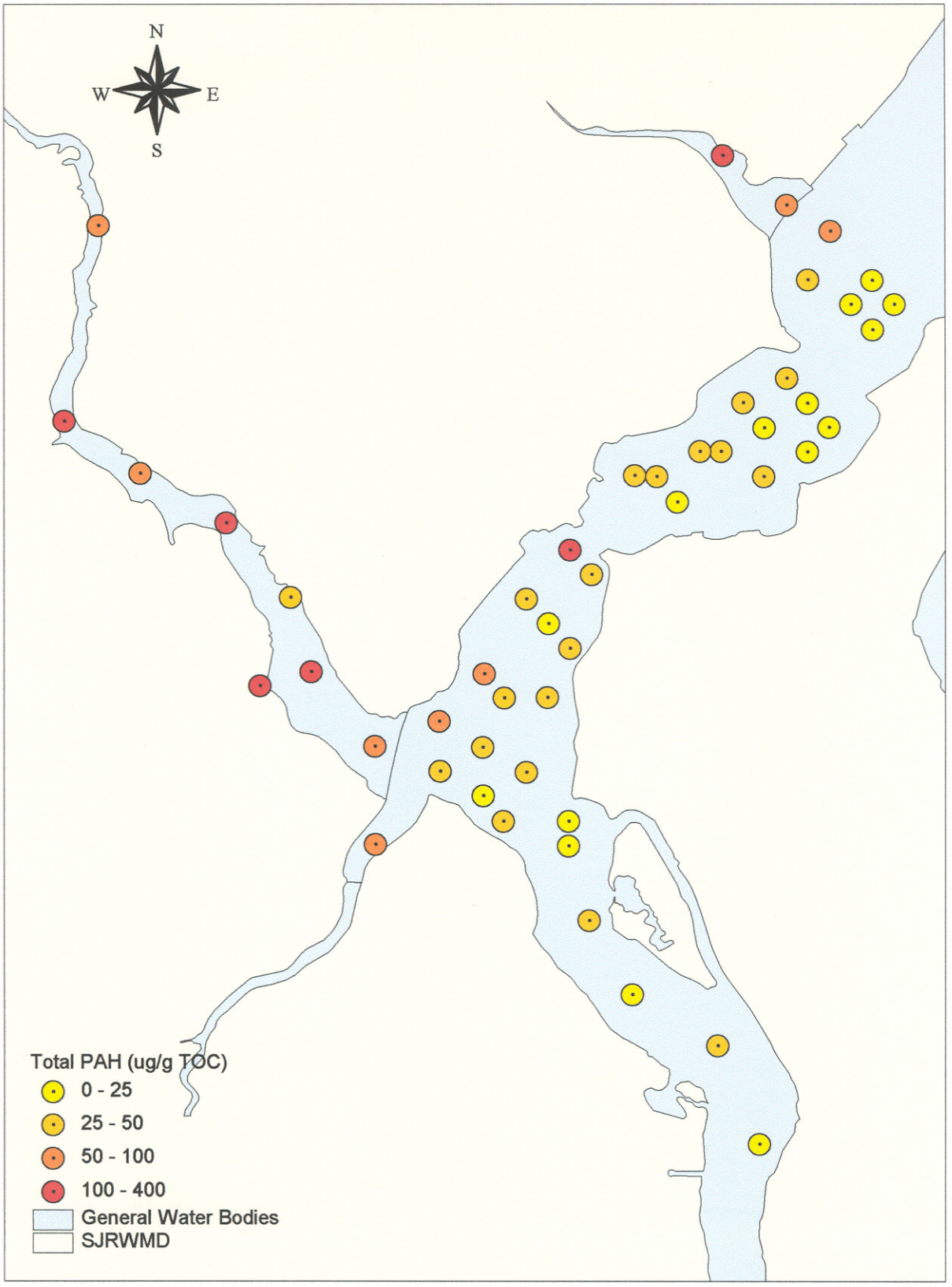
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
ERL 1
ERM 3.70

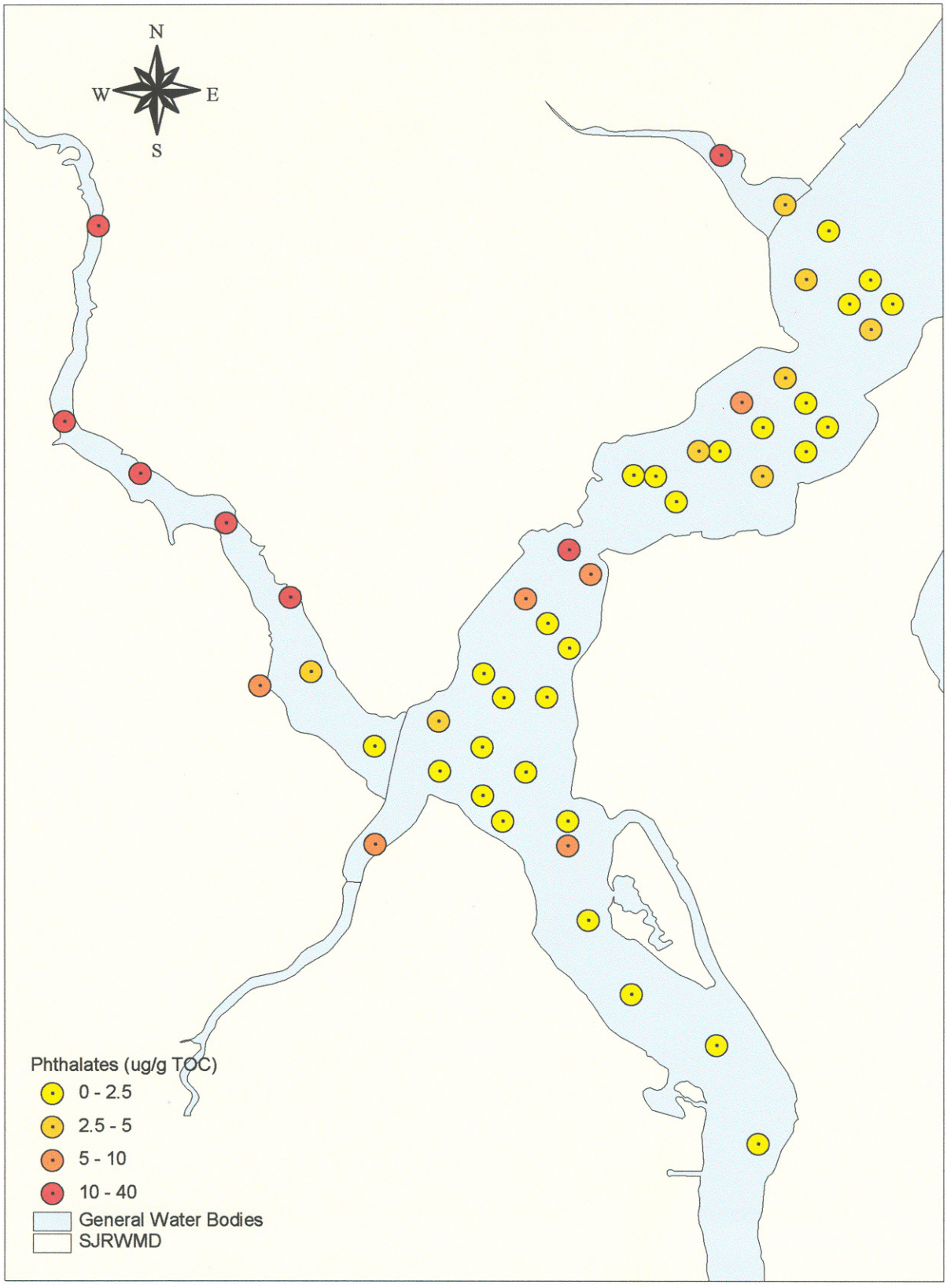

Zn (mg/kg Dry Wt)
0
200
400
600
800
Site
CED01
CED02
CED03
CED04
CED05
CED06
CED07
CED08
CED09
ORT01
ORT02
ORT03
ORT04
ORT05
ORT06
ORT07
ORT08
ORT09
ORT10
ORT11
ORT12
ORT13
ORT14
ORT15
ORT16
ORT18
ORT19
ORT20
ORT21
ORT22
ORT23
ORT24
ORT25
ORT26
ORT27
ORT28
ORT29
ORT30
ORT31
ORT32
ORT33
ORT34
ORT35
ORT36
ORT37
ORT38
ORT39
ORT40
ORT41
2,050
1,430
TEC 121
ERL 150
ERM 410
PEC 459

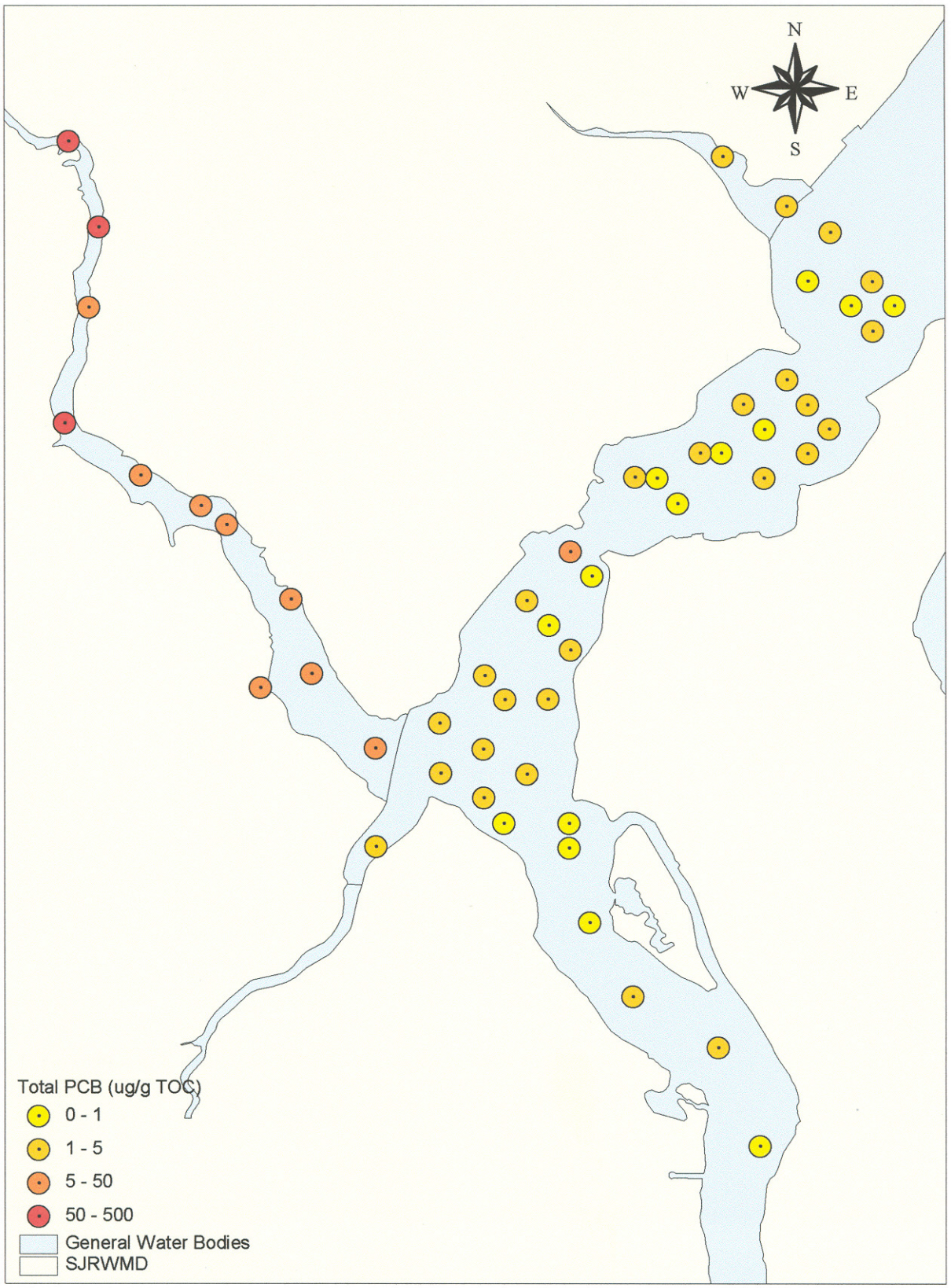
Appendix Q. Surface Sediment Contaminant Levels Displayed on Maps

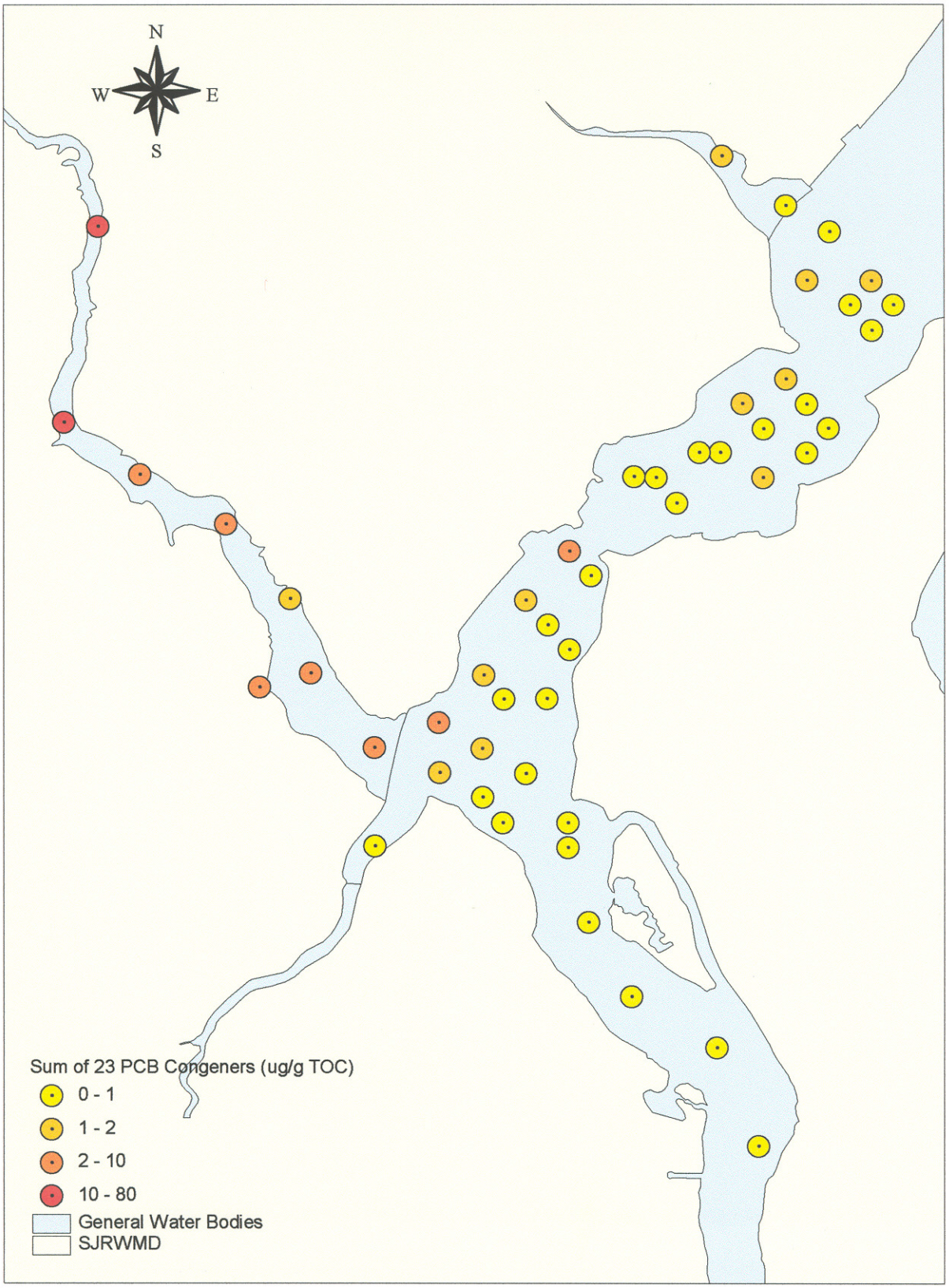

N
W
E
S
Mud (%)
0 - 25
25 - 50
50 - 75
75 - 100
General Water Bodies
SJRWMD

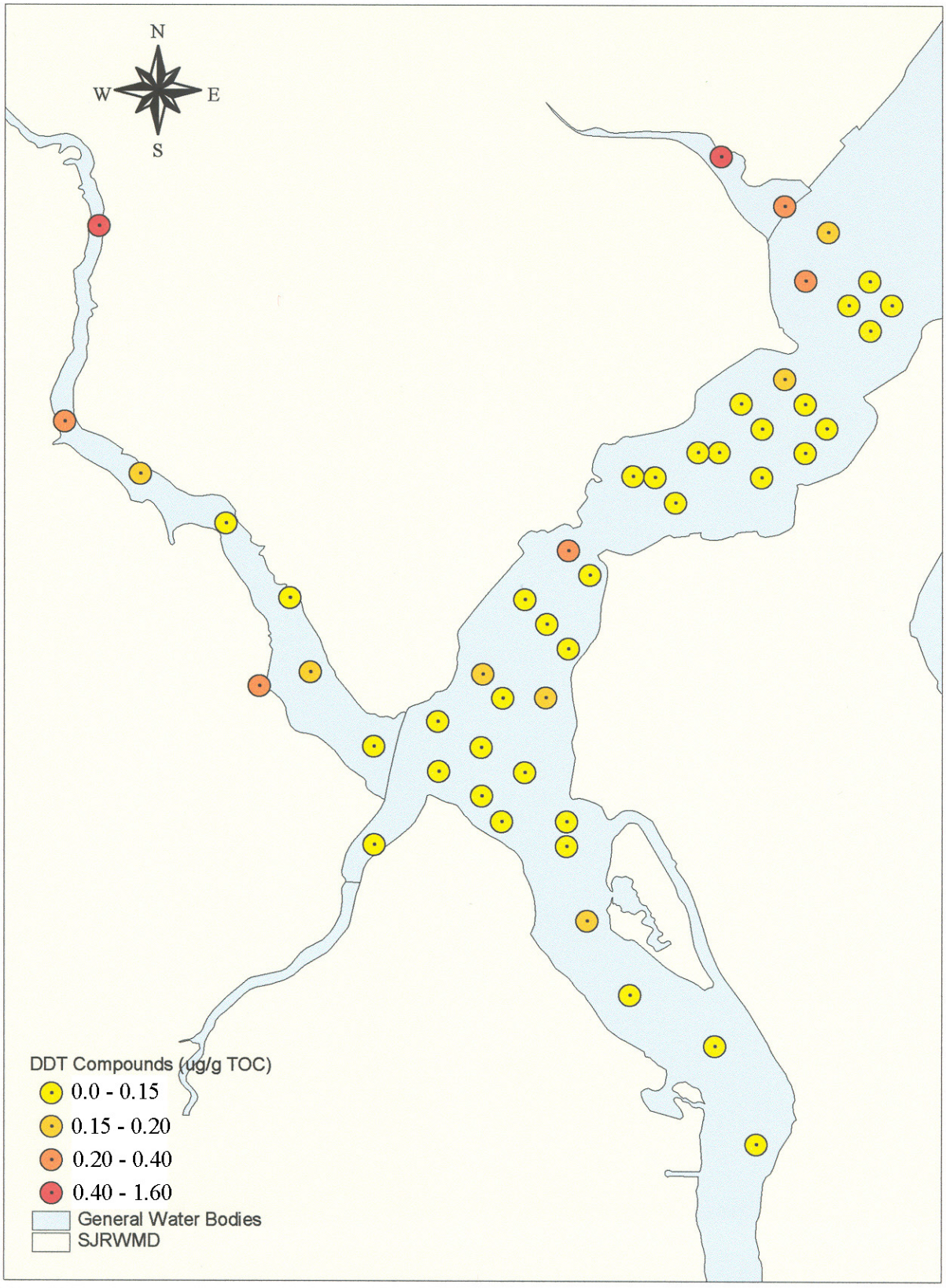

N
W
E
S
Total Organic Carbon (TOC; %)
2 - 8
8 - 12
12 - 16
16 - 22
General Water Bodies
SJRWMD

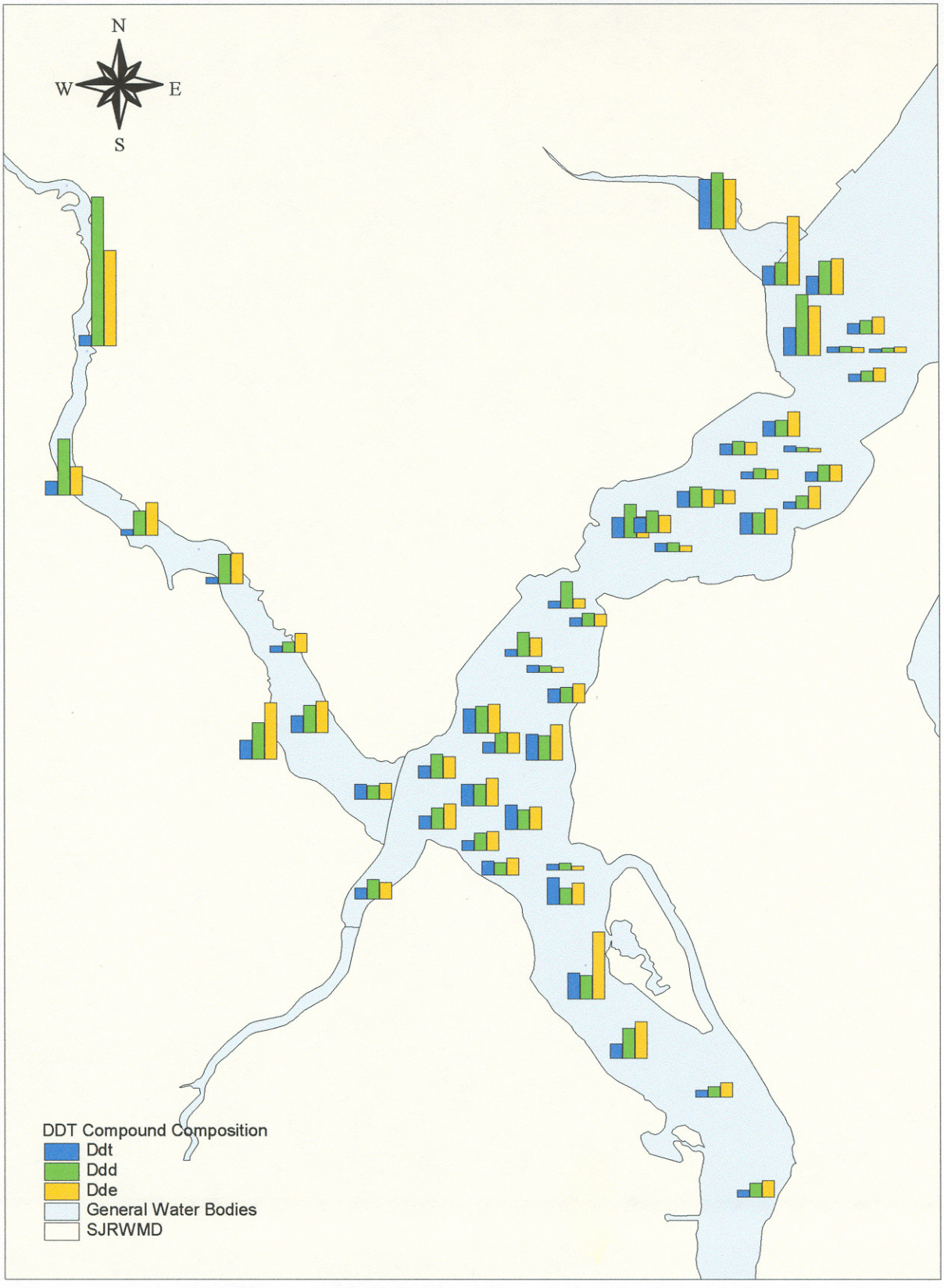

N
W
E
S
Total PAH (ug/g TOC)
0 - 25
25 - 50
50 - 100
100 - 400
General Water Bodies
SJRWMD

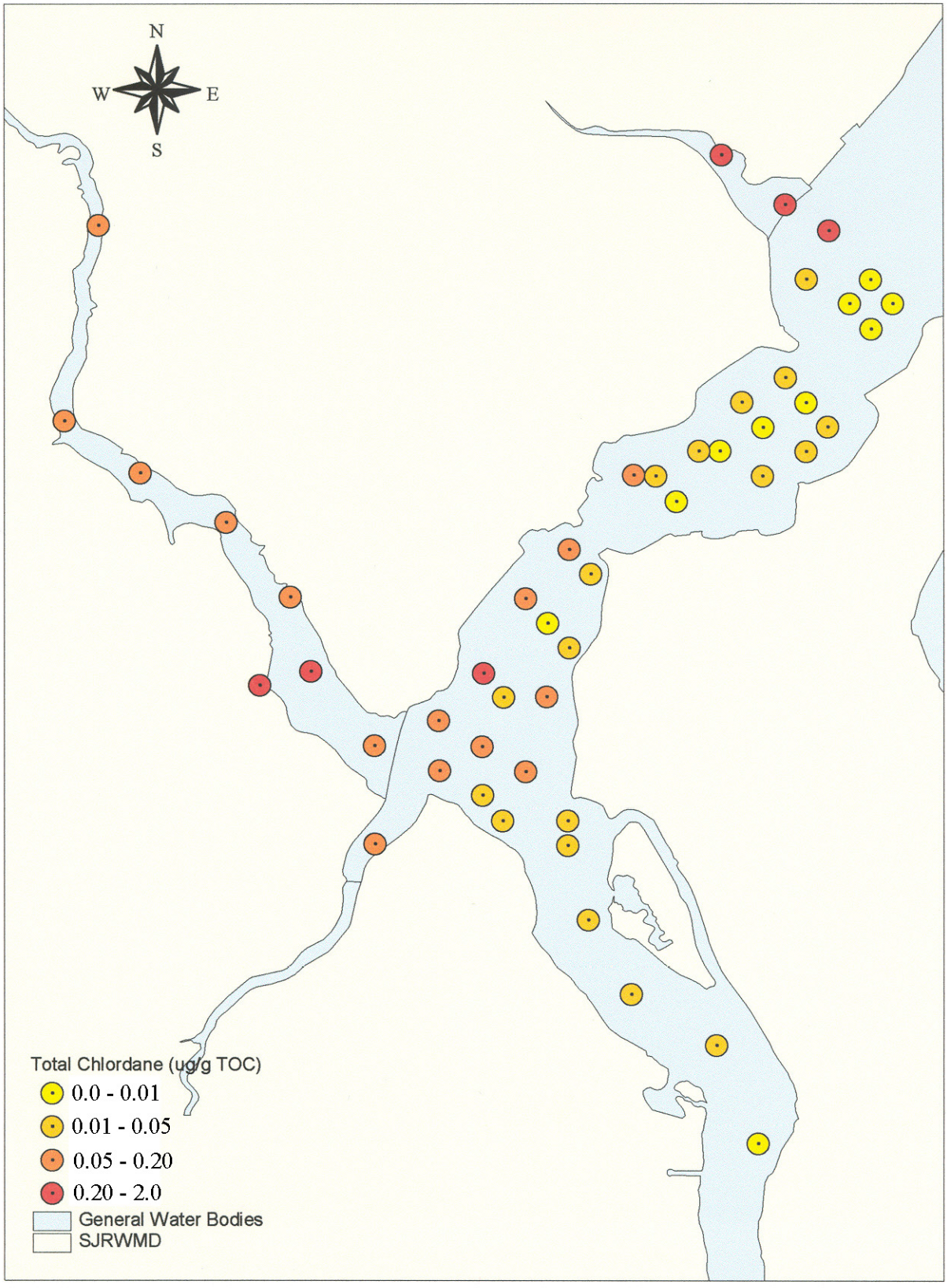

N
W
E
S
Phthalates (ug/g TOC)
0 - 2.5
2.5 - 5
5 - 10
10 - 40
General Water Bodies
SJRWMD

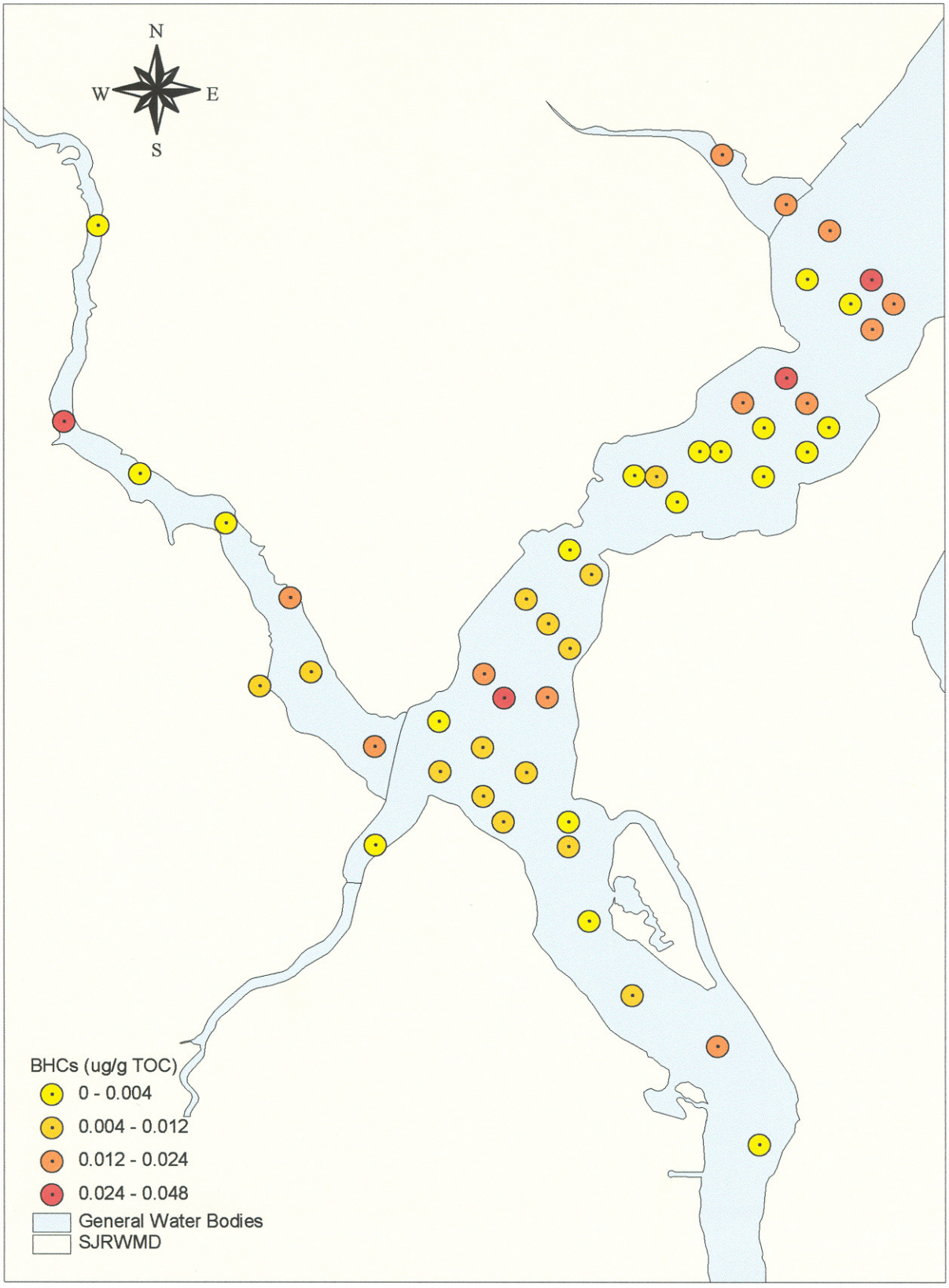

N
W
E
S
Total PCB (ug/g TOC)
0 - 1
1 - 5
5 - 50
50 - 500
General Water Bodies
SJRWMD

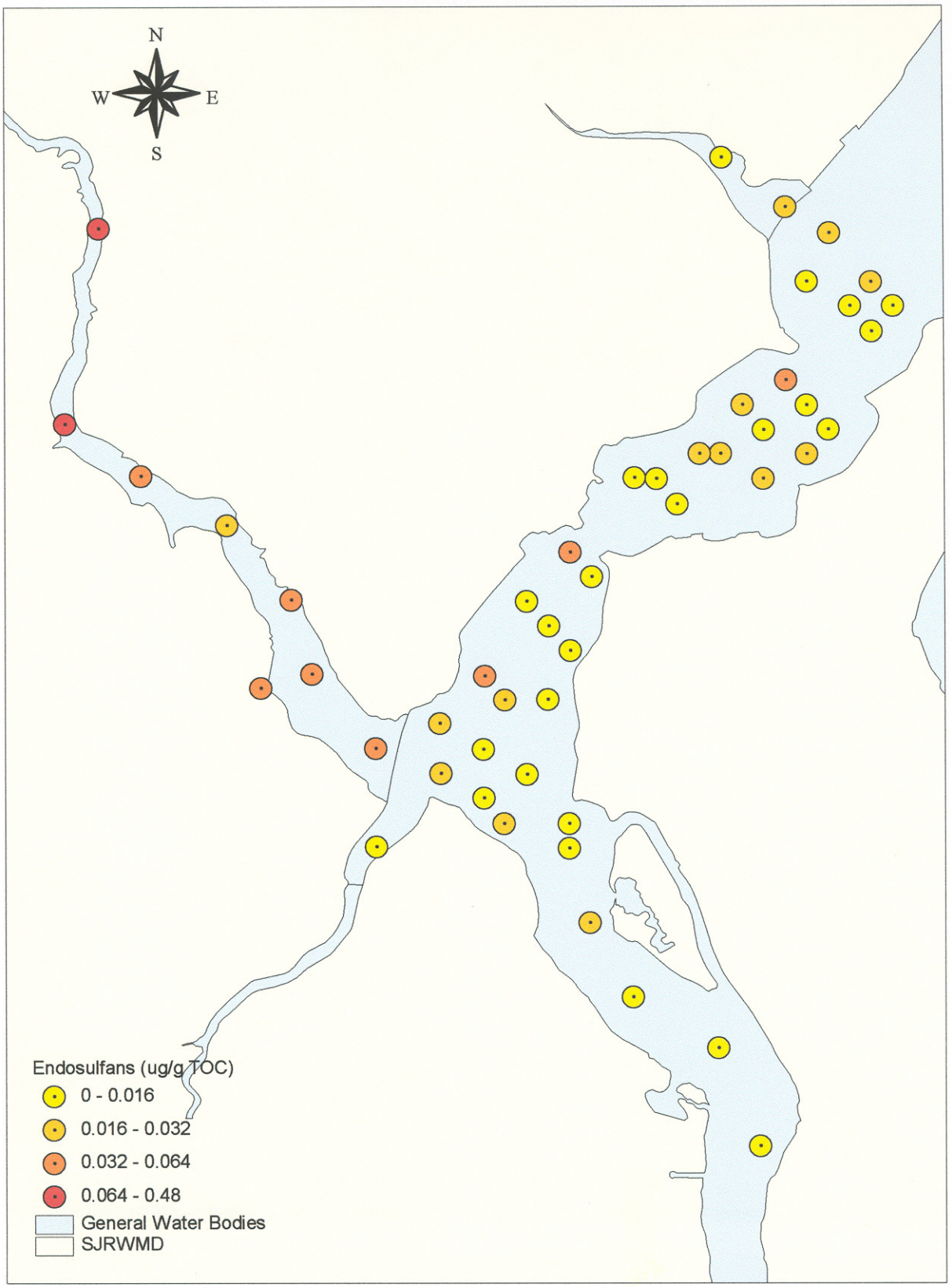

N
W
E
S
Sum of 23 PCB Congeners (ug/g TOC)
0 - 1
1 - 2
2 - 10
10 - 80
General Water Bodies
SJRWMD

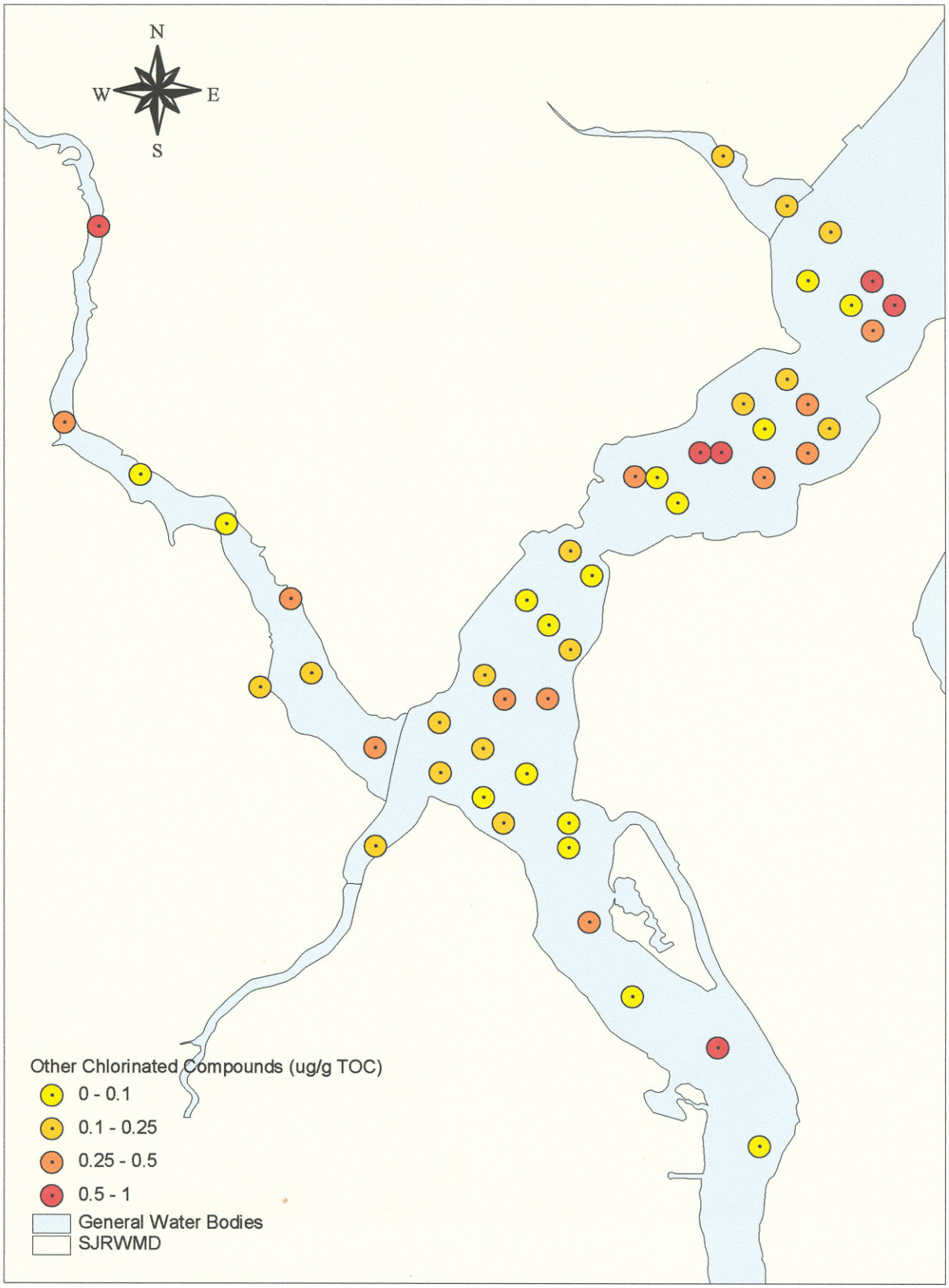

N
W
E
S
DDT Compounds (ug/g TOC)
0.0 - 0.15
0.15 - 0.20
0.20 - 0.40
0.40 - 1.60
General Water Bodies
SJRWMD

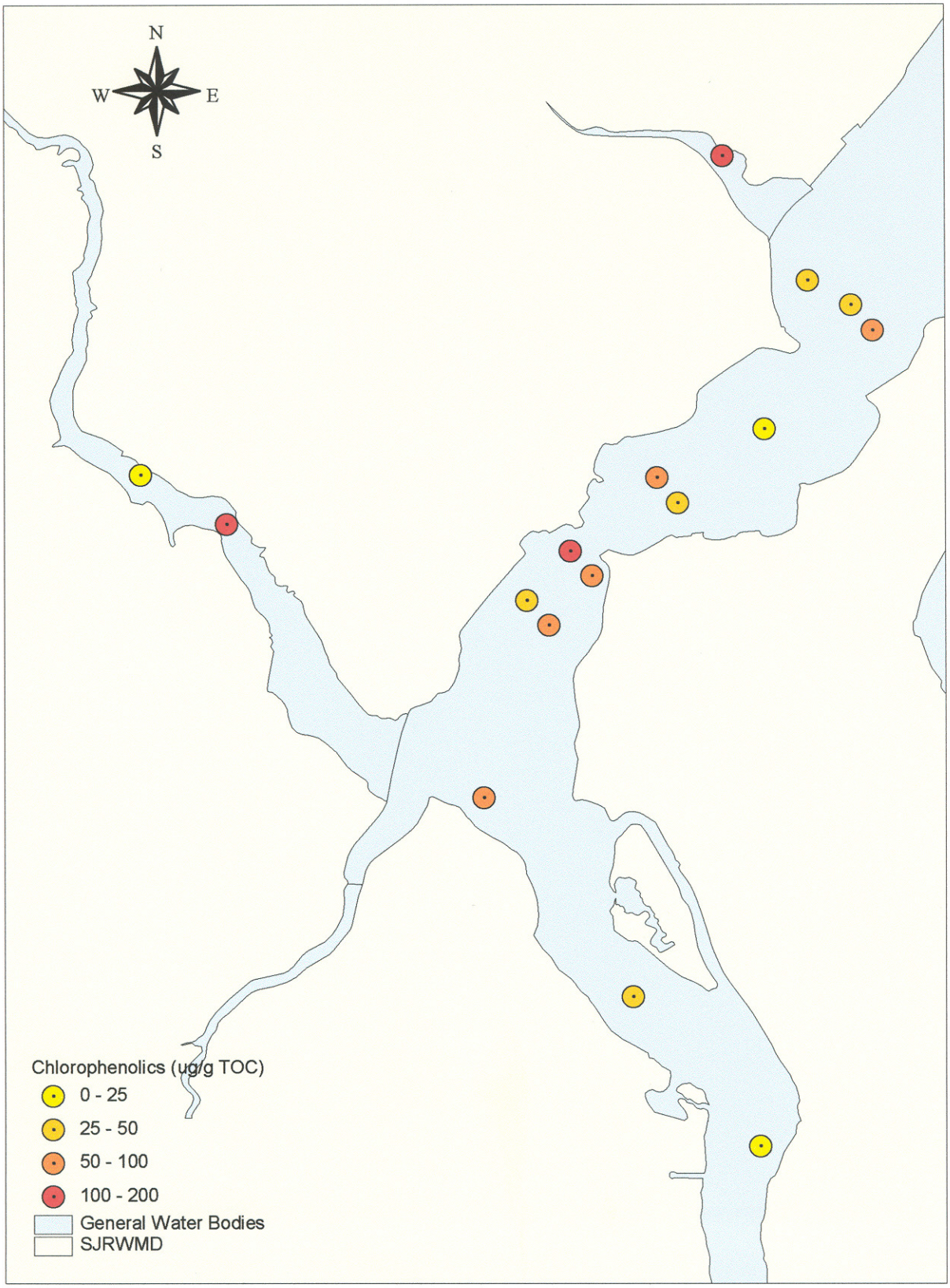

N
W
E
S
DDT Compound Composition
Ddt
Ddd
Dde
General Water Bodies
SJRWMD

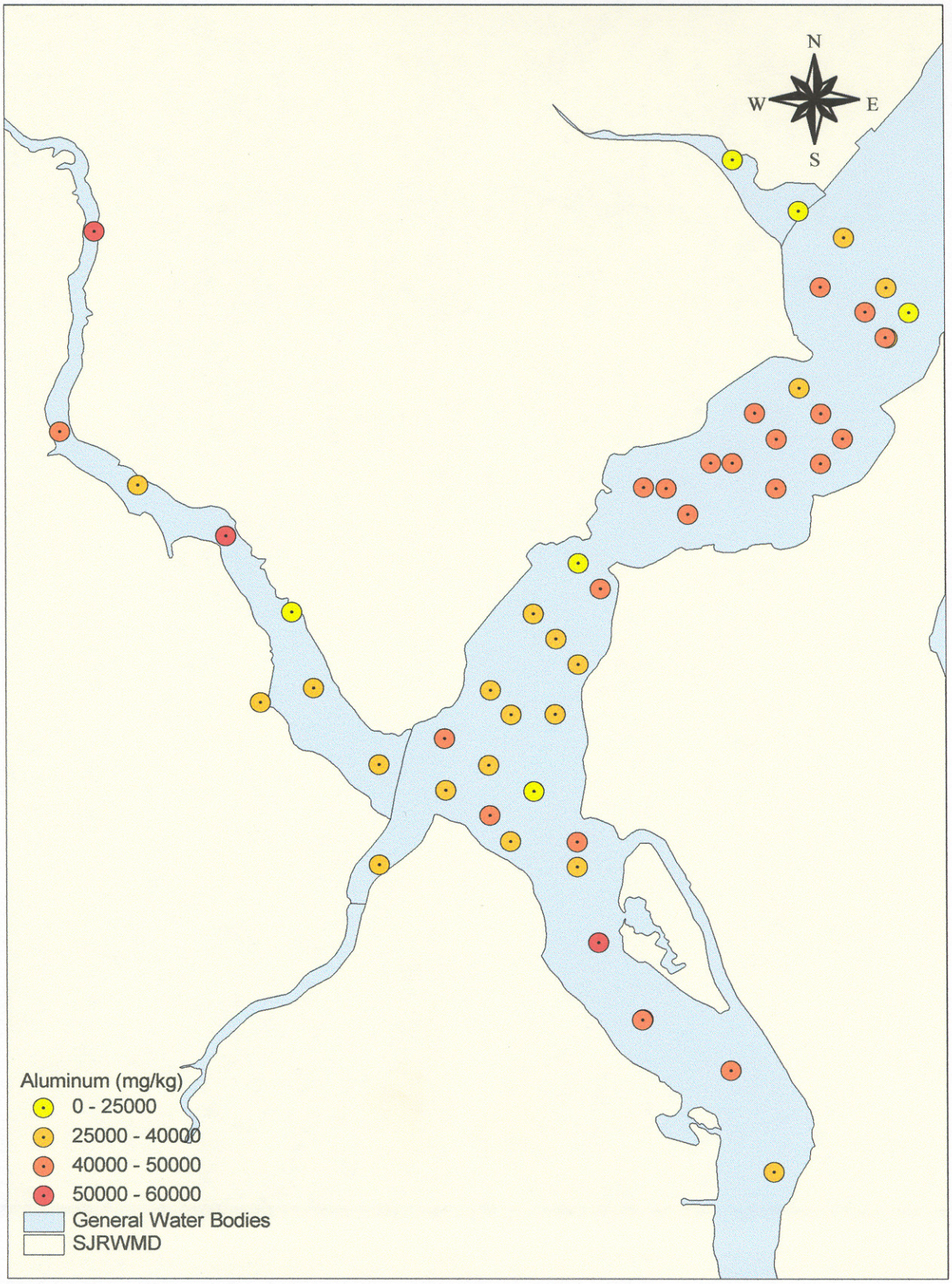

N
W
E
S
Total Chlordane (ug/g TOC)
0.0 - 0.01
0.01 - 0.05
0.05 - 0.20
0.20 - 2.0
General Water Bodies
SJRWMD

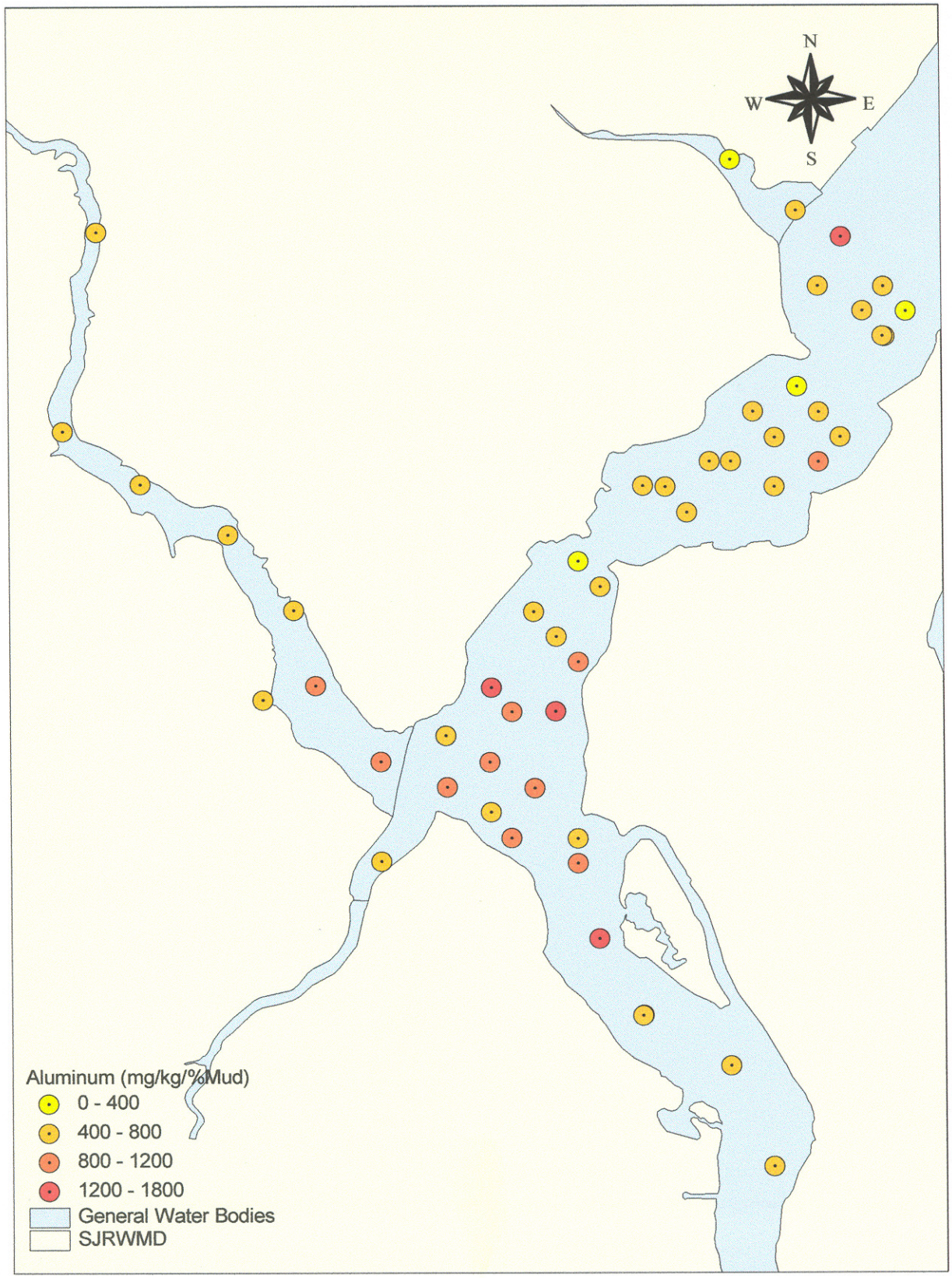

N
W
E
S
BHCs (ug/g TOC)
0 - 0.004
0.004 - 0.012
0.012 - 0.024
0.024 - 0.048
General Water Bodies
SJRWMD

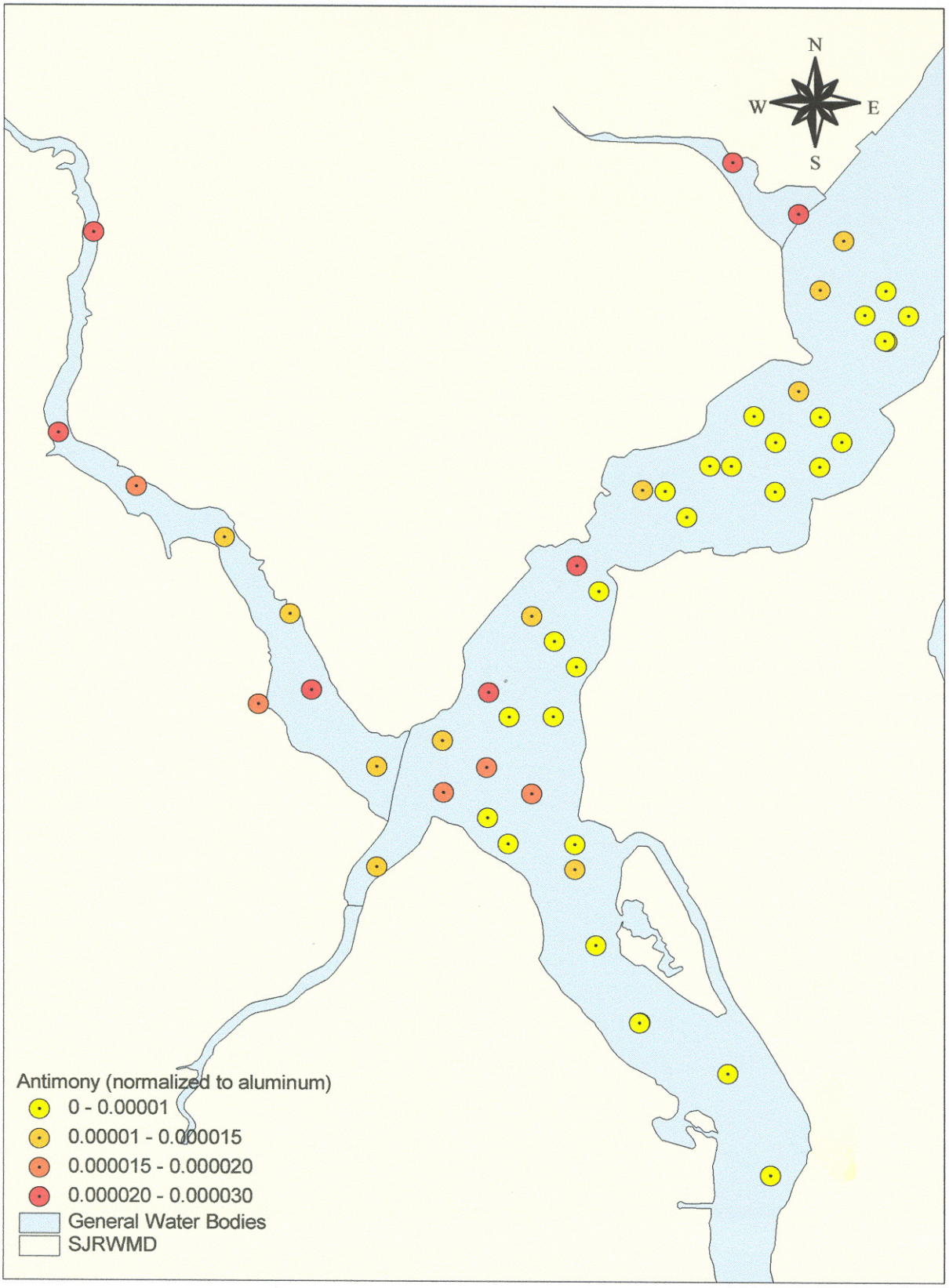

N
W
E
S
Endosulfans (ug/g TOC)
0 - 0.016
0.016 - 0.032
0.032 - 0.064
0.064 - 0.48
General Water Bodies
SJRWMD

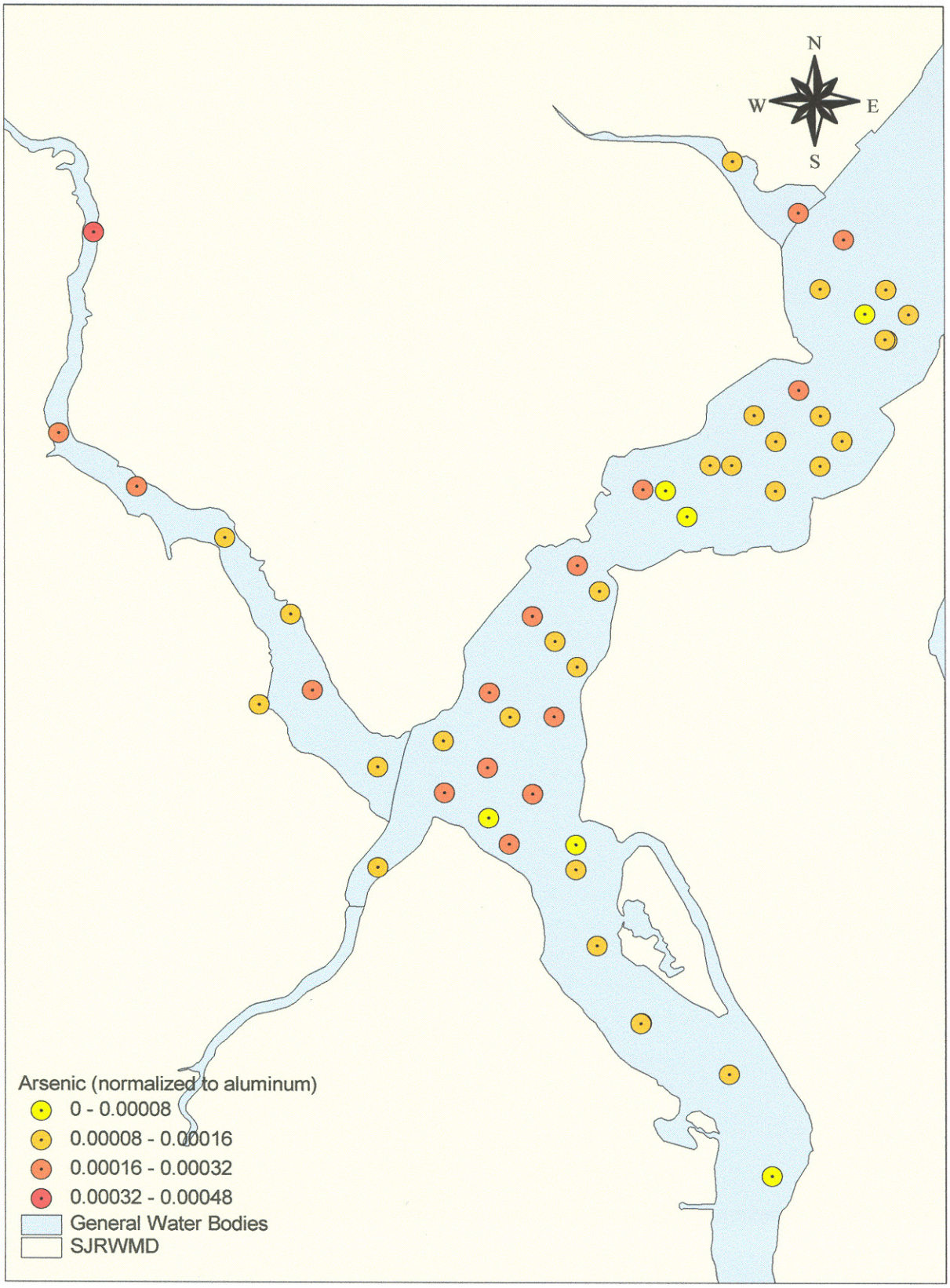

N
W
E
S
Other Chlorinated Compounds (ug/g TOC)
0 - 0.1
0.1 - 0.25
0.25 - 0.5
0.5 - 1
General Water Bodies
SJRWMD

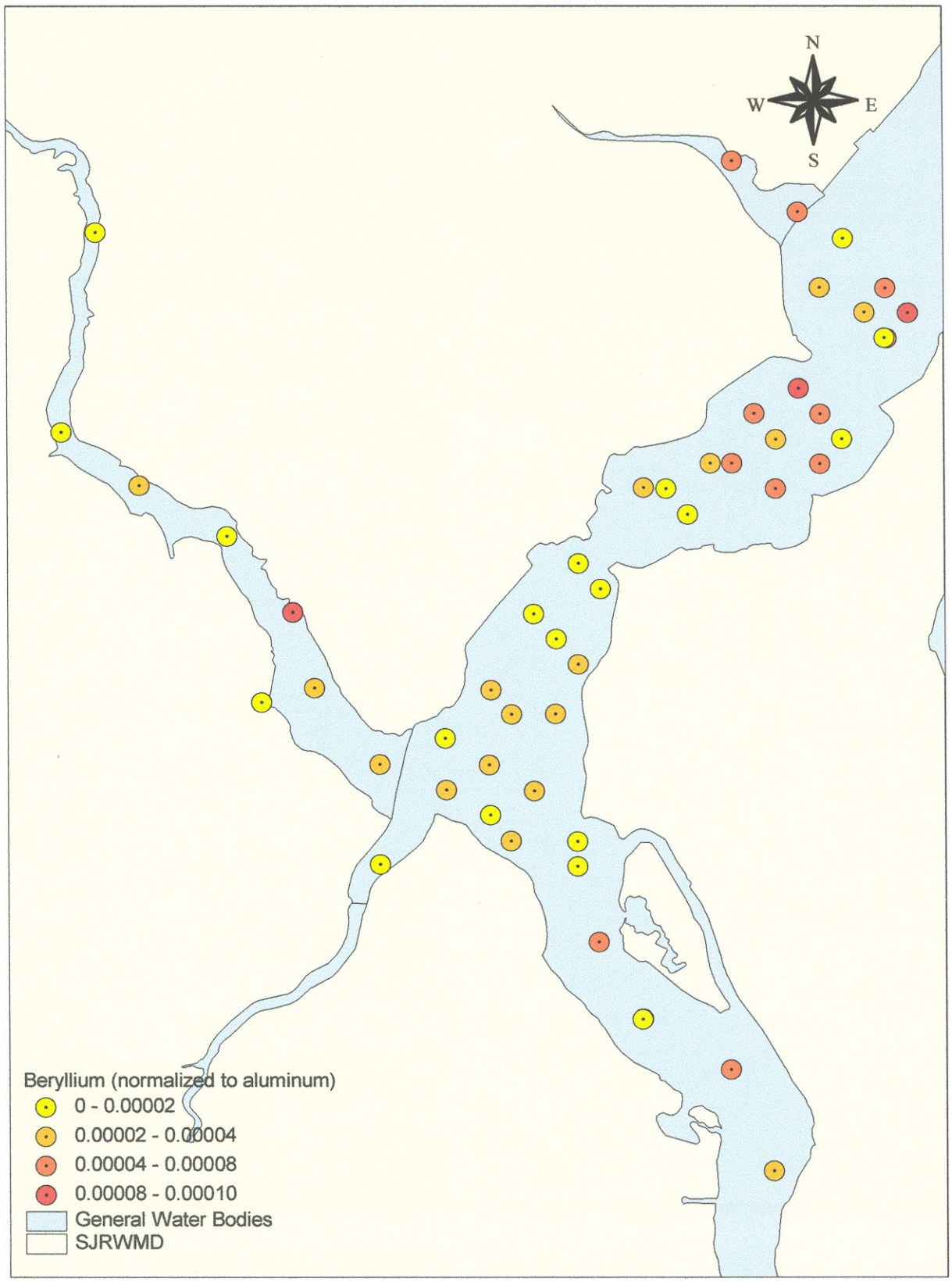

N
W
E
S
Chlorophenolics (ug/g TOC)
0 - 25
25 - 50
50 - 100
100 - 200
General Water Bodies
SJRWMD

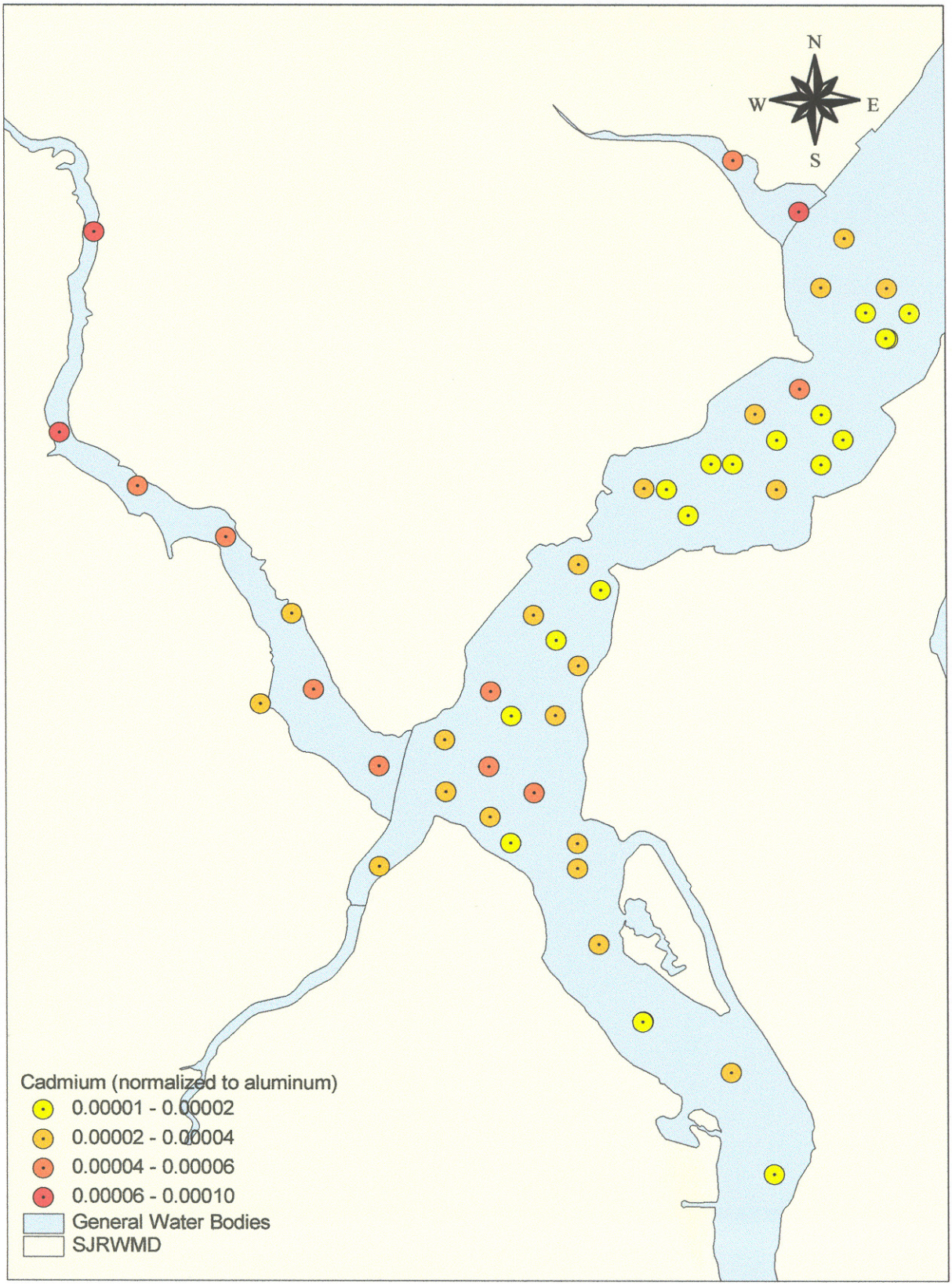

N
W
E
S
Aluminum (mg/kg)
0 - 25000
25000 - 40000
40000 - 50000
50000 - 60000
General Water Bodies
SJRWMD

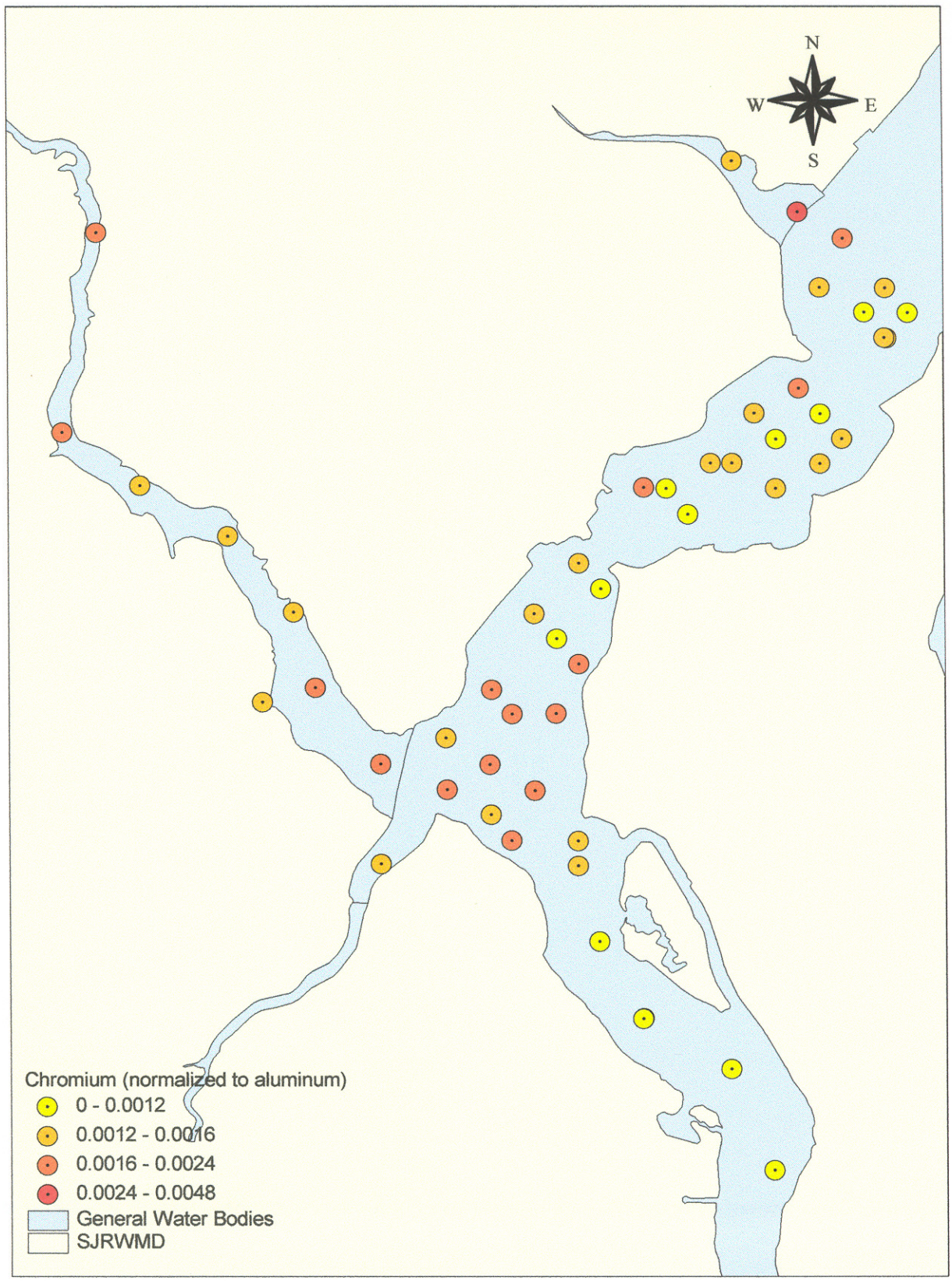

N
W
E
S
Aluminum (mg/kg/%Mud)
0 - 400
400 - 800
800 - 1200
1200 - 1800
General Water Bodies
SJRWMD

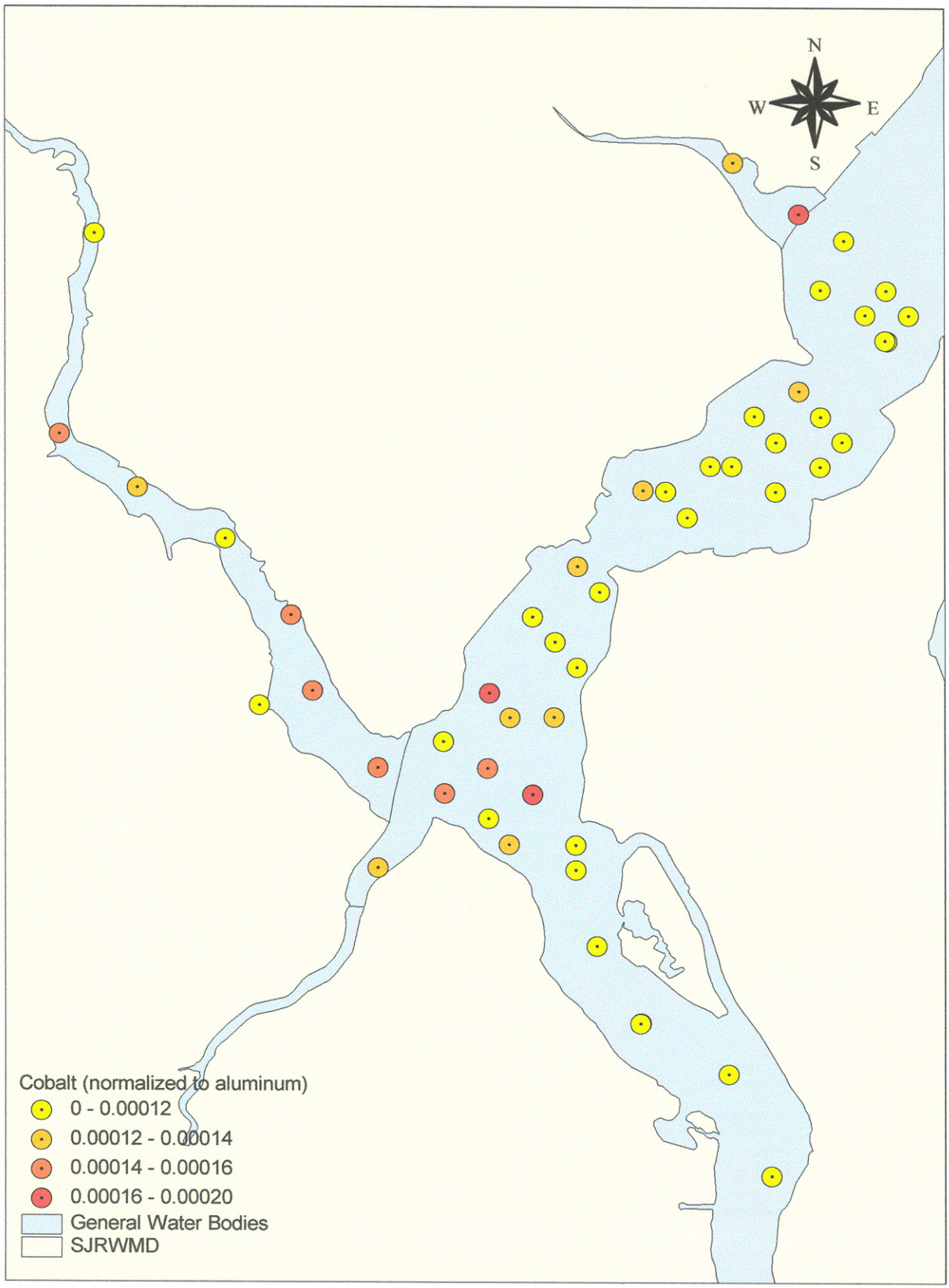

N
W
E
S
Antimony (normalized to aluminum)
0 - 0.00001
0.00001 - 0.000015
0.000015 - 0.000020
0.000020 - 0.000030
General Water Bodies
SJRWMD

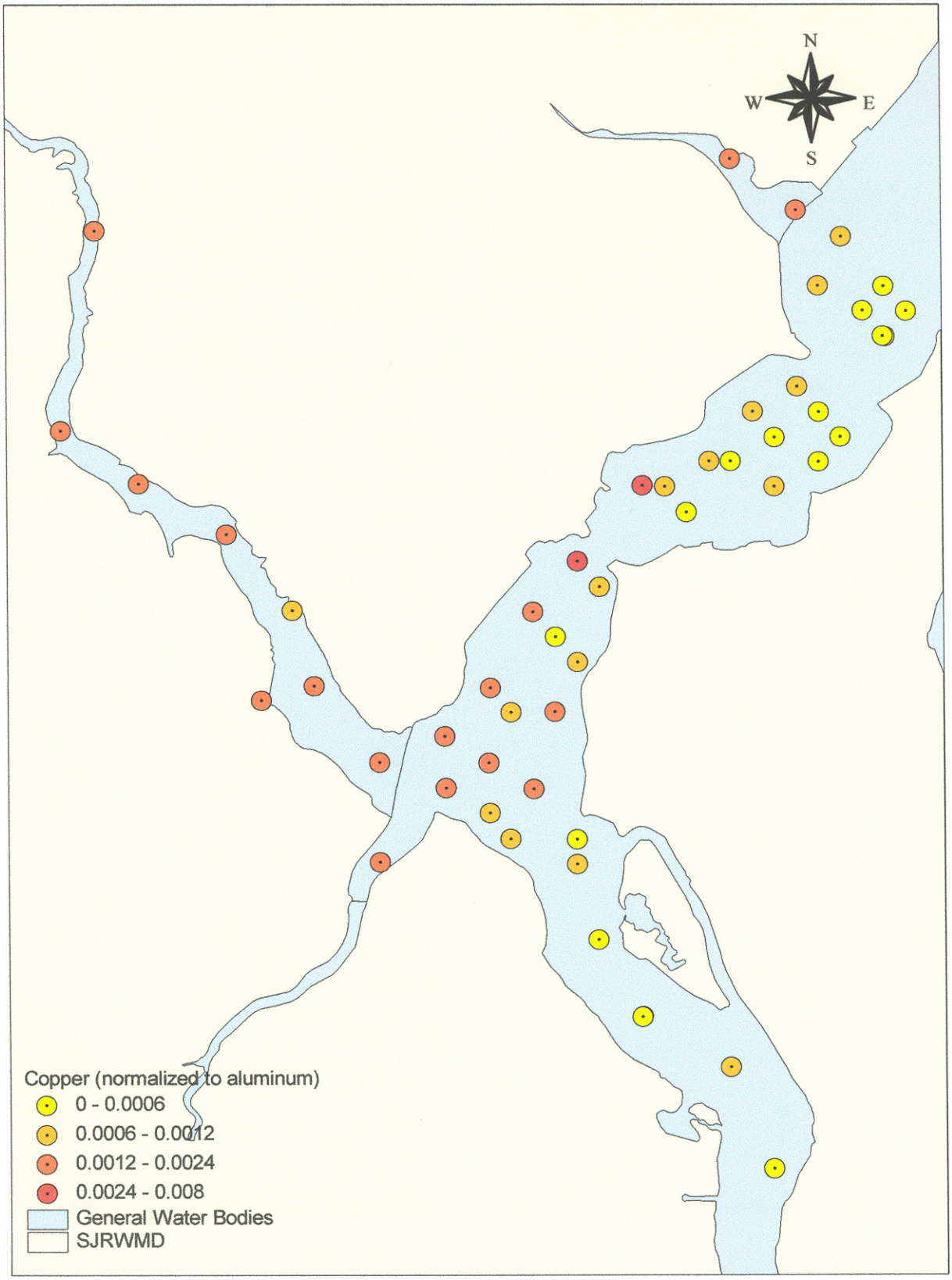

N
W
E
S
Arsenic (normalized to aluminum)
0 - 0.00008
0.00008 - 0.00016
0.00016 - 0.00032
0.00032 - 0.00048
General Water Bodies
SJRWMD

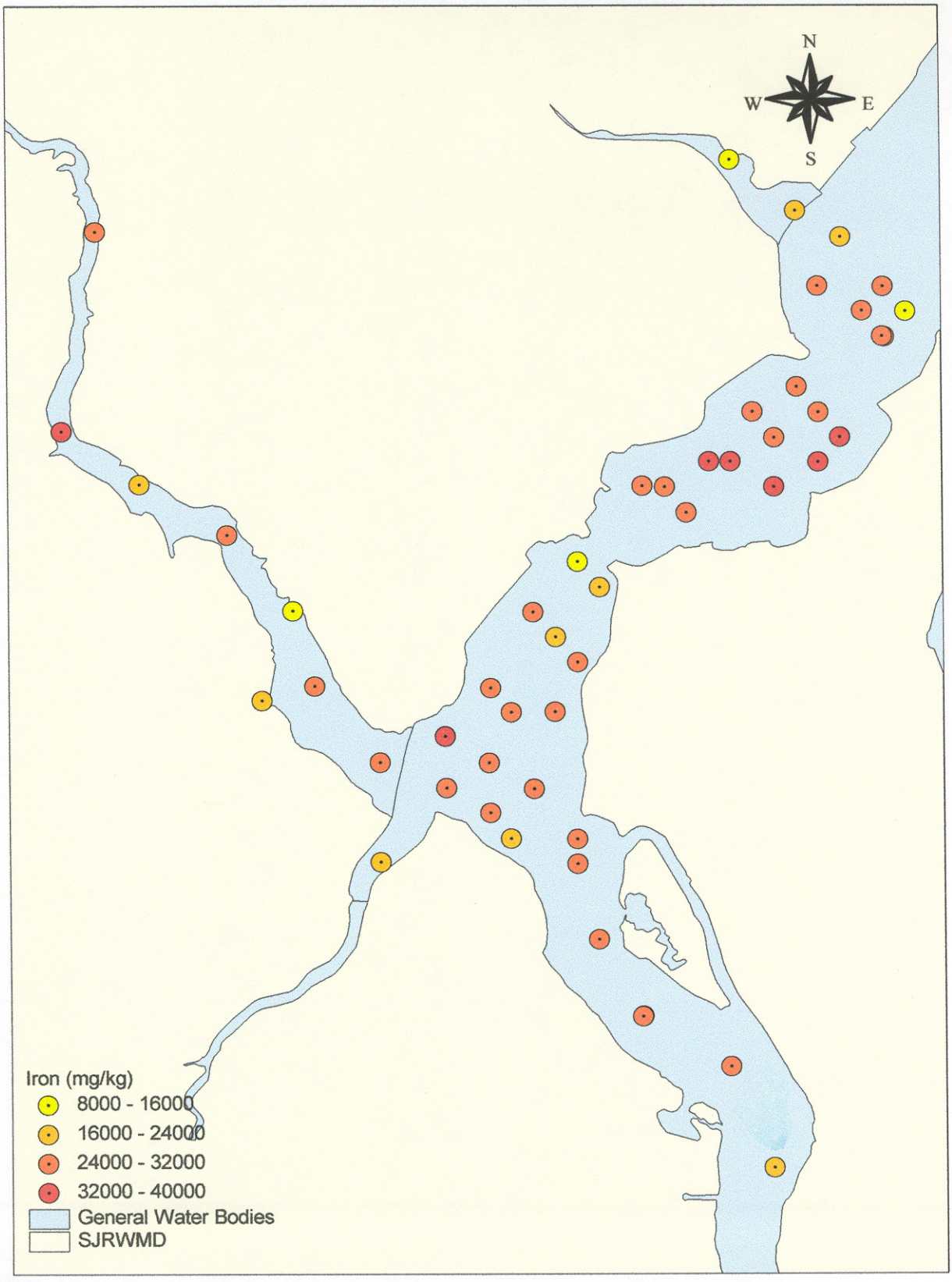

N
W
E
S
Beryllium (normalized to aluminum)
0 - 0.00002
0.00002 - 0.00004
0.00004 - 0.00008
0.00008 - 0.00010
General Water Bodies
SJRWMD

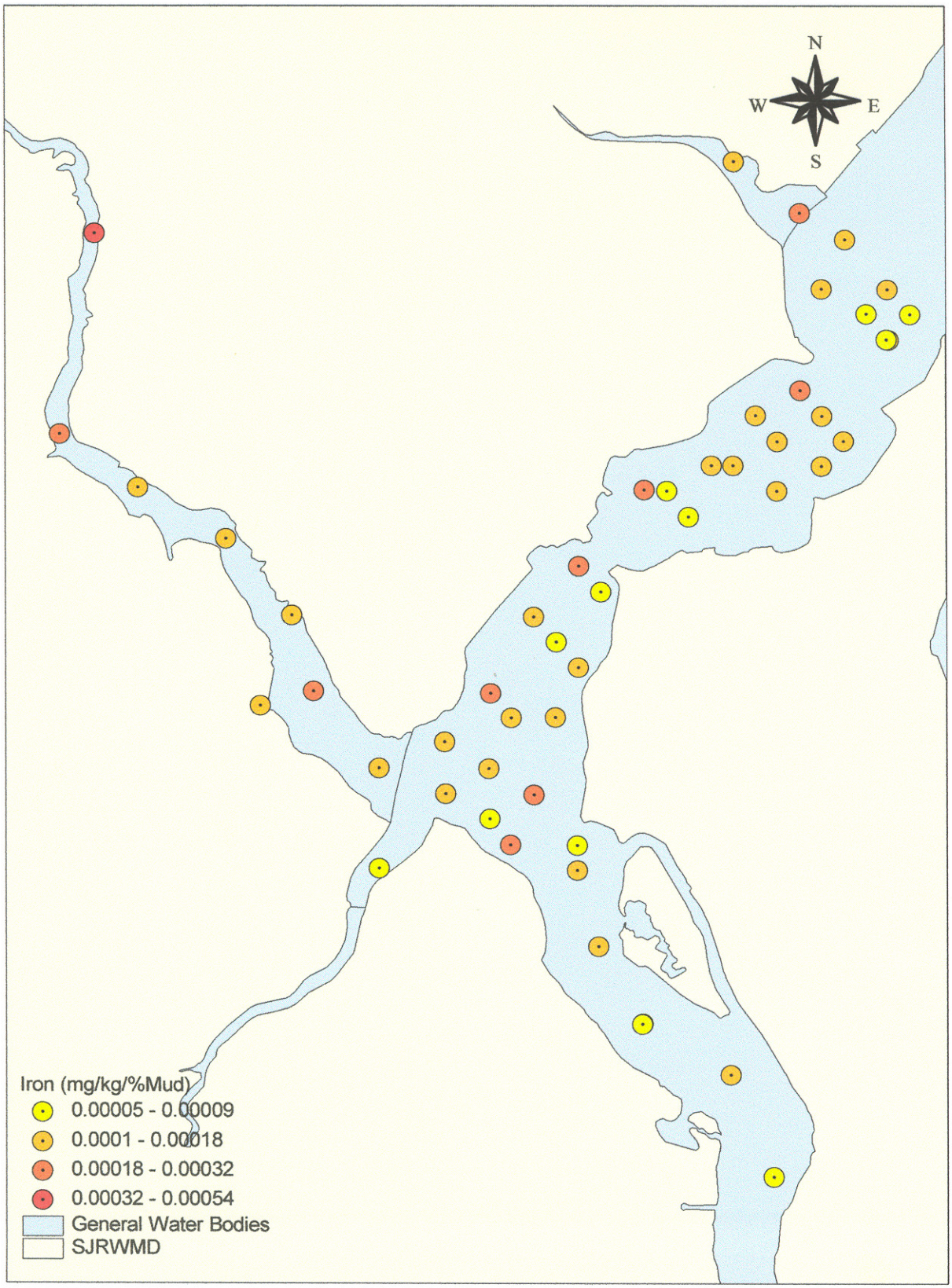

N
W
E
S
Cadmium (normalized to aluminum)
0.00001 - 0.00002
0.00002 - 0.00004
0.00004 - 0.00006
0.00006 - 0.00010
General Water Bodies
SJRWMD

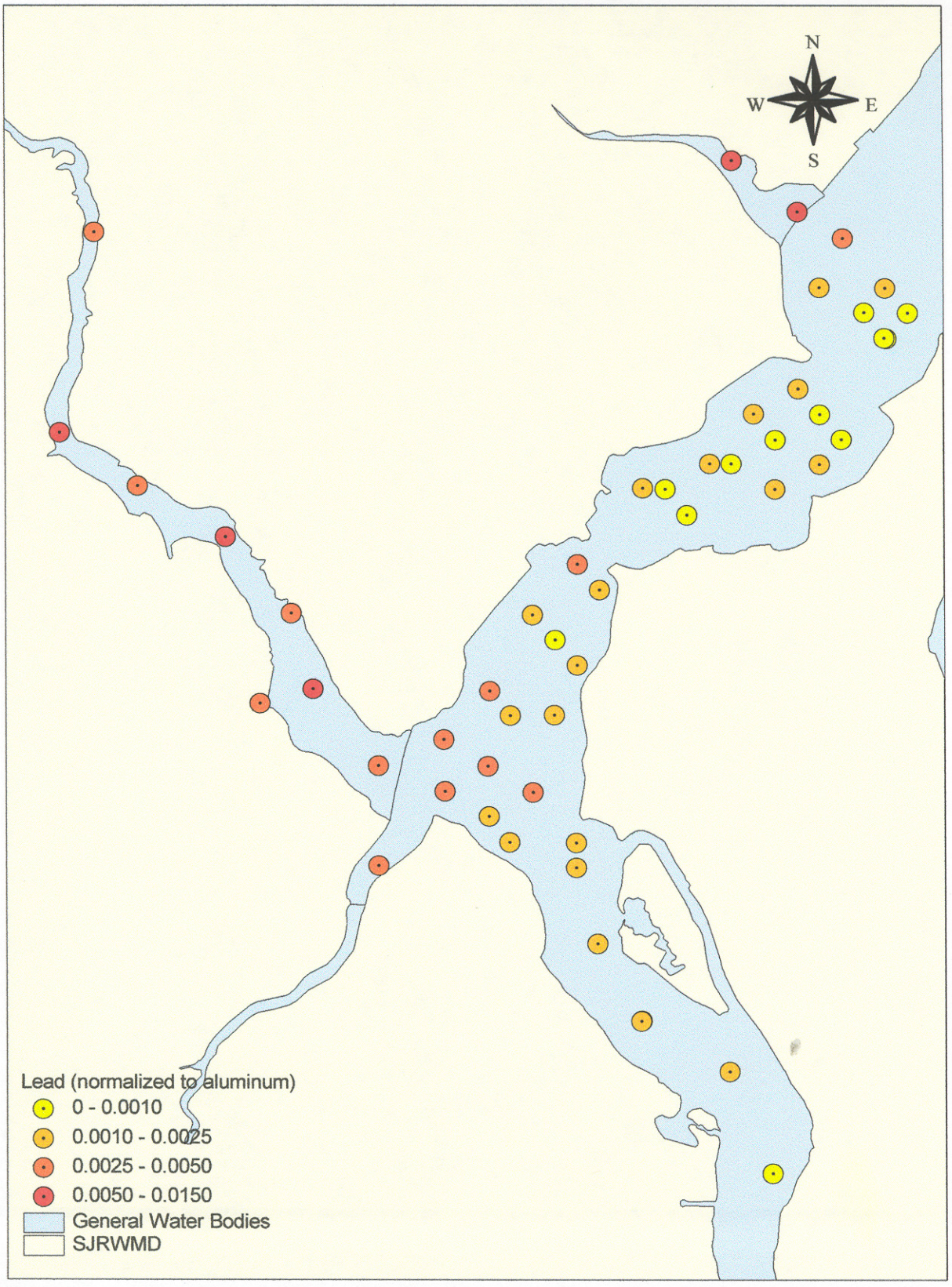

N
W
E
S
Chromium (normalized to aluminum)
0 - 0.0012
0.0012 - 0.0016
0.0016 - 0.0024
0.0024 - 0.0048
General Water Bodies
SJRWMD

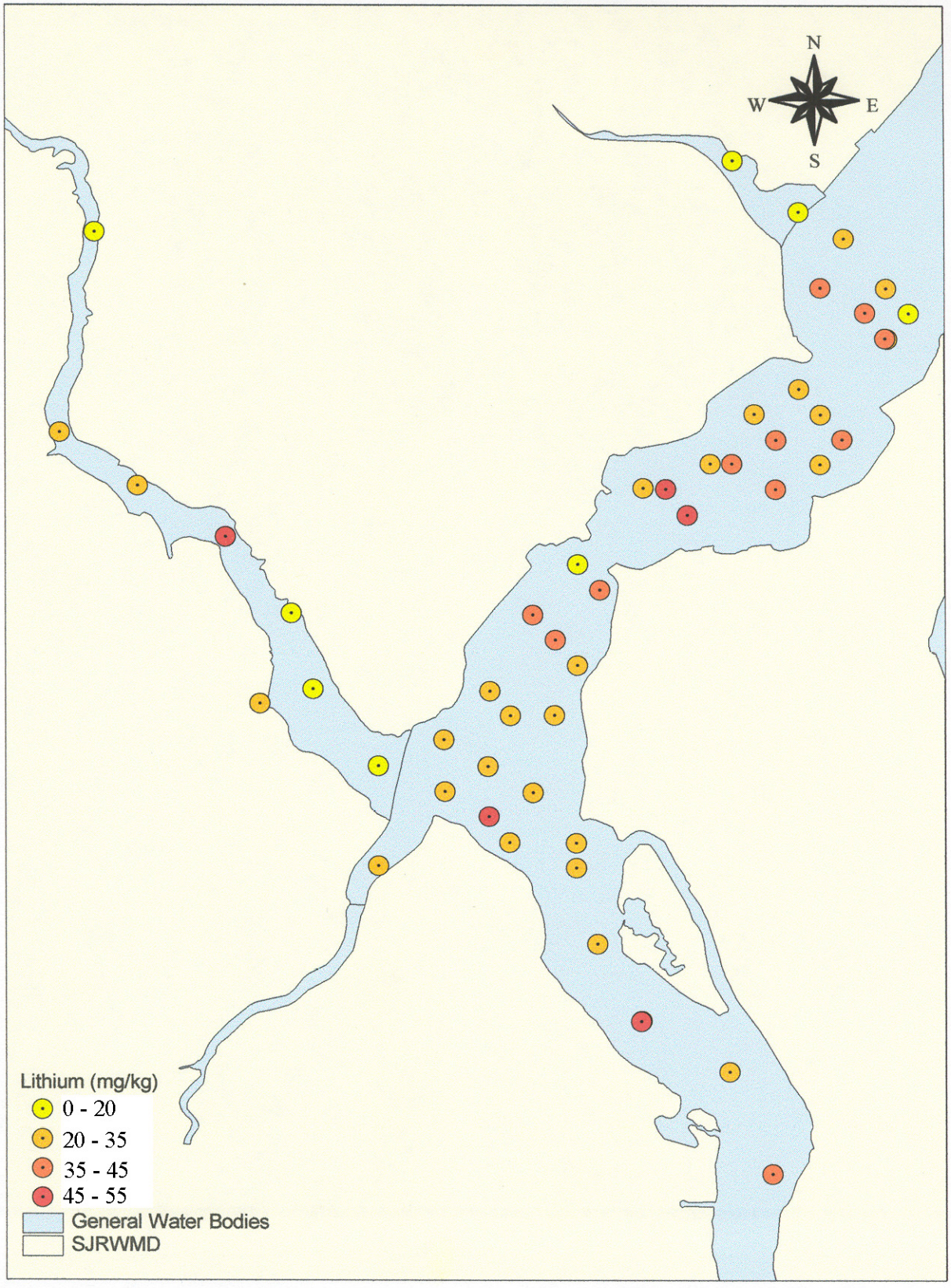

N
W
E
S
Cobalt (normalized to aluminum)
0 - 0.00012
0.00012 - 0.00014
0.00014 - 0.00016
0.00016 - 0.00020
General Water Bodies
SJRWMD

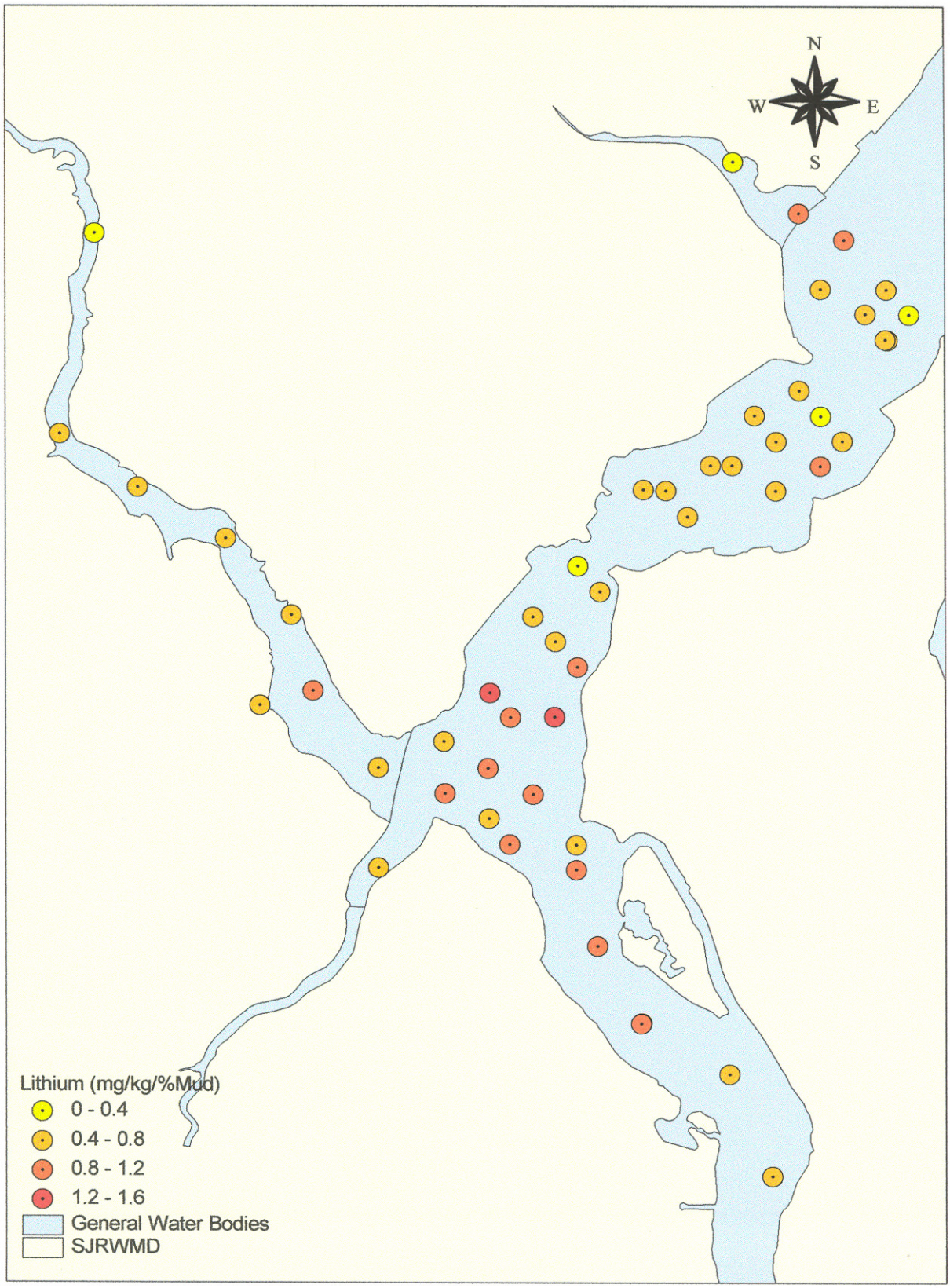

N
W
E
S
Copper (normalized to aluminum)
0 - 0.0006
0.0006 - 0.0012
0.0012 - 0.0024
0.0024 - 0.008
General Water Bodies
SJRWMD

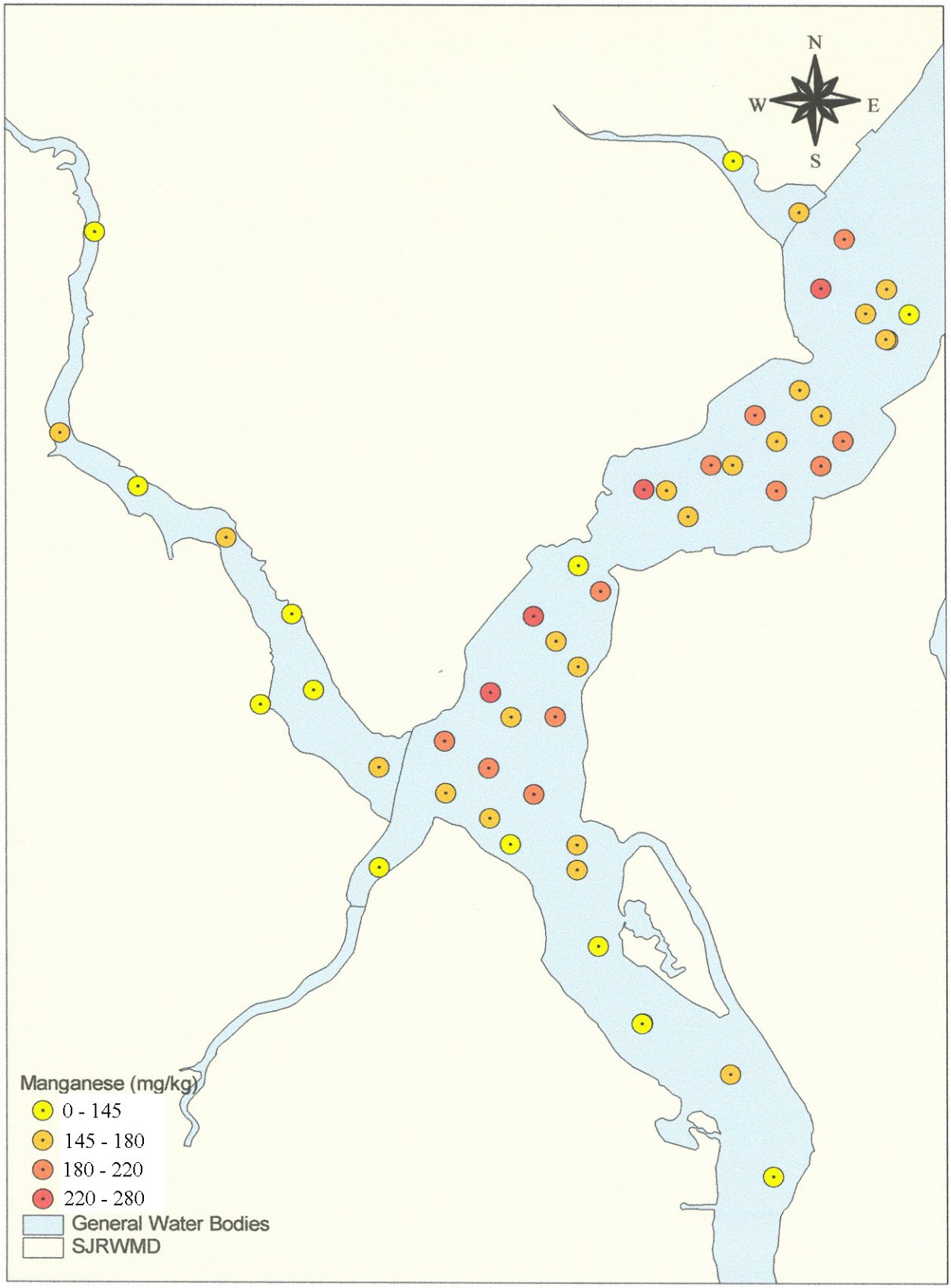

N
W
E
S
Iron (mg/kg)
8000 - 16000
16000 - 24000
24000 - 32000
32000 - 40000
General Water Bodies
SJRWMD

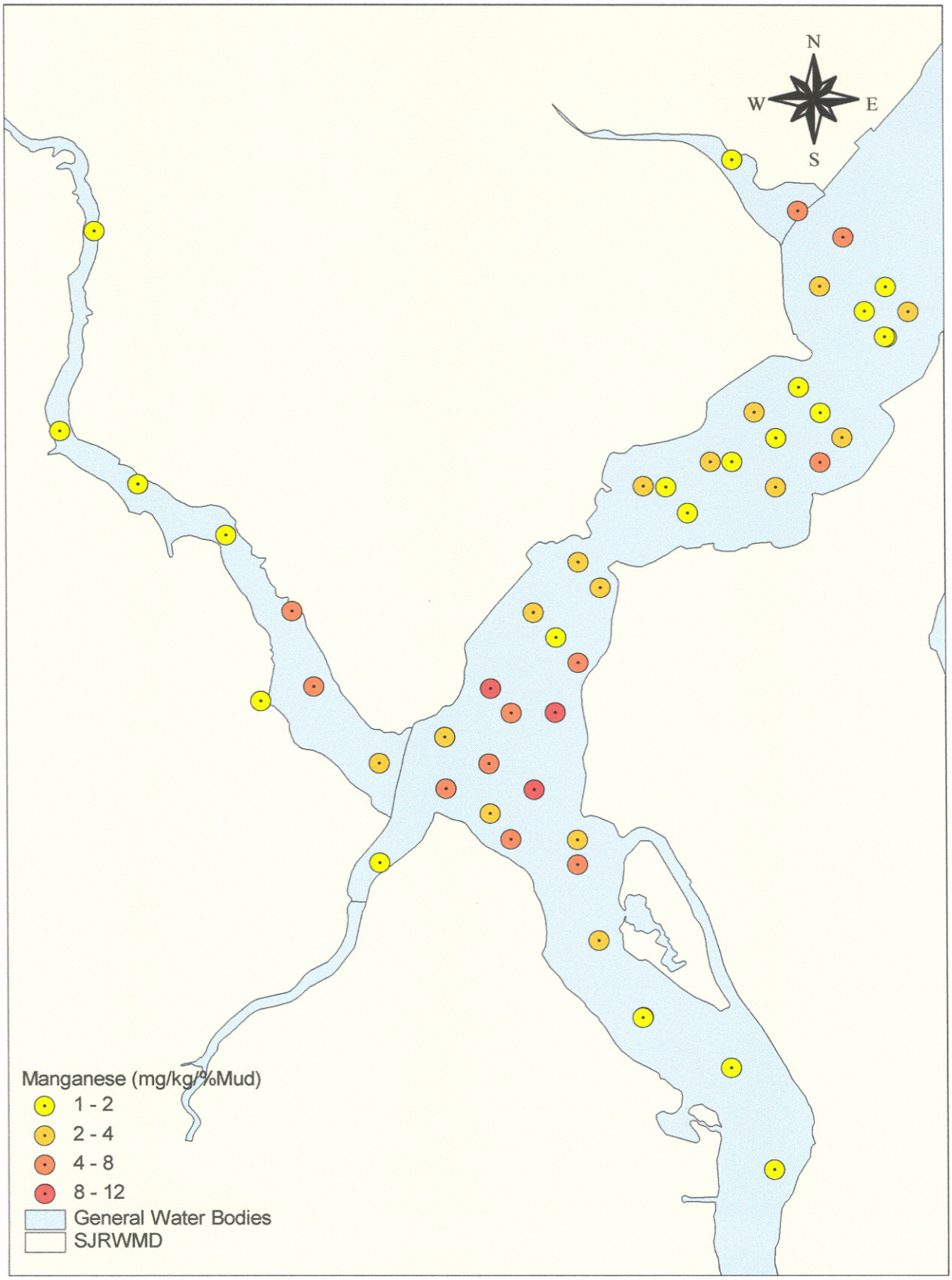

N
W
E
S
Iron (mg/kg/%Mud)
0.00005 - 0.00009
0.0001 - 0.00018
0.00018 - 0.00032
0.00032 - 0.00054
General Water Bodies
SJRWMD

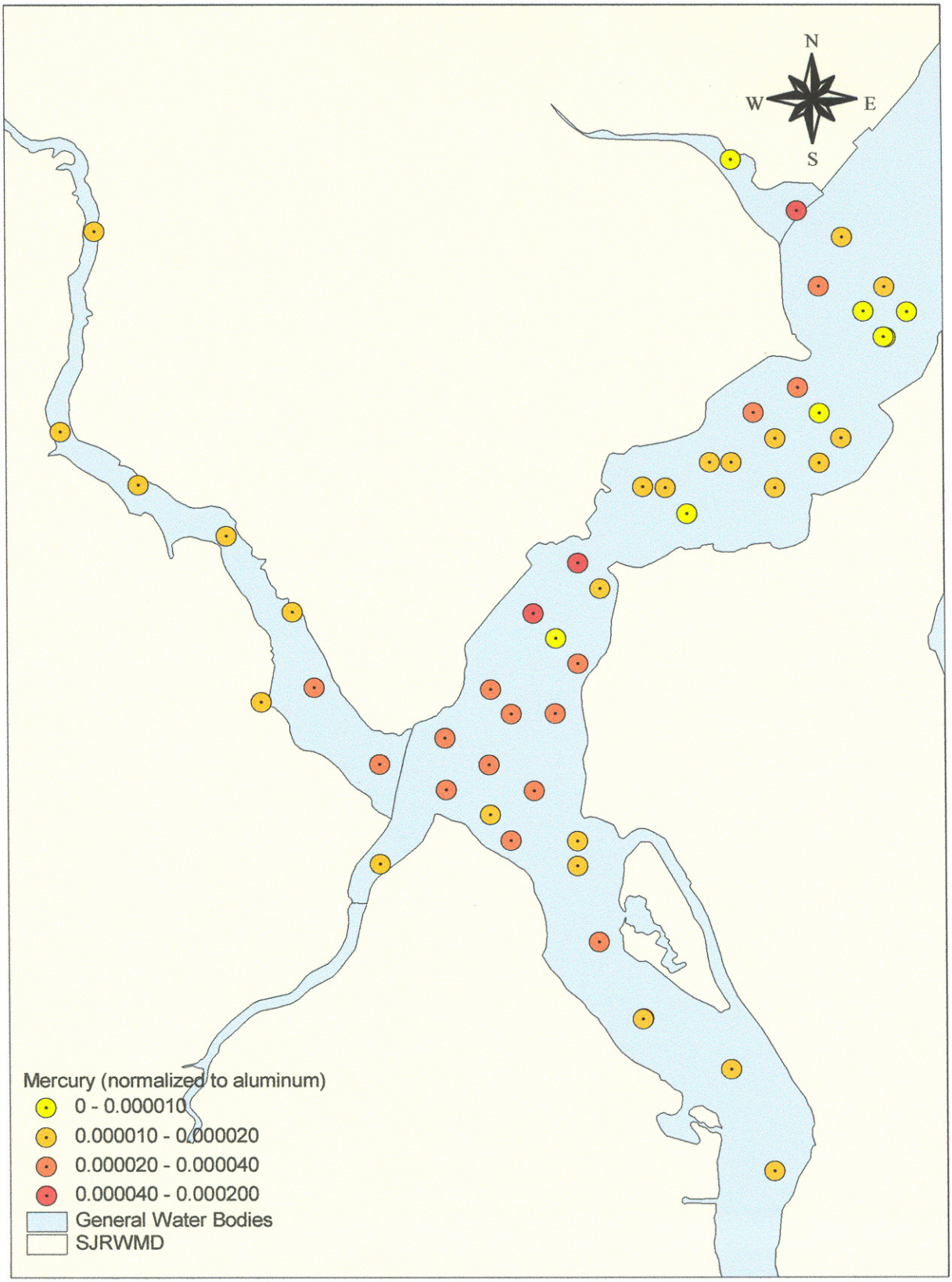

N
W
E
S
Lead (normalized to aluminum)
0 - 0.0010
0.0010 - 0.0025
0.0025 - 0.0050
0.0050 - 0.0150
General Water Bodies
SJRWMD

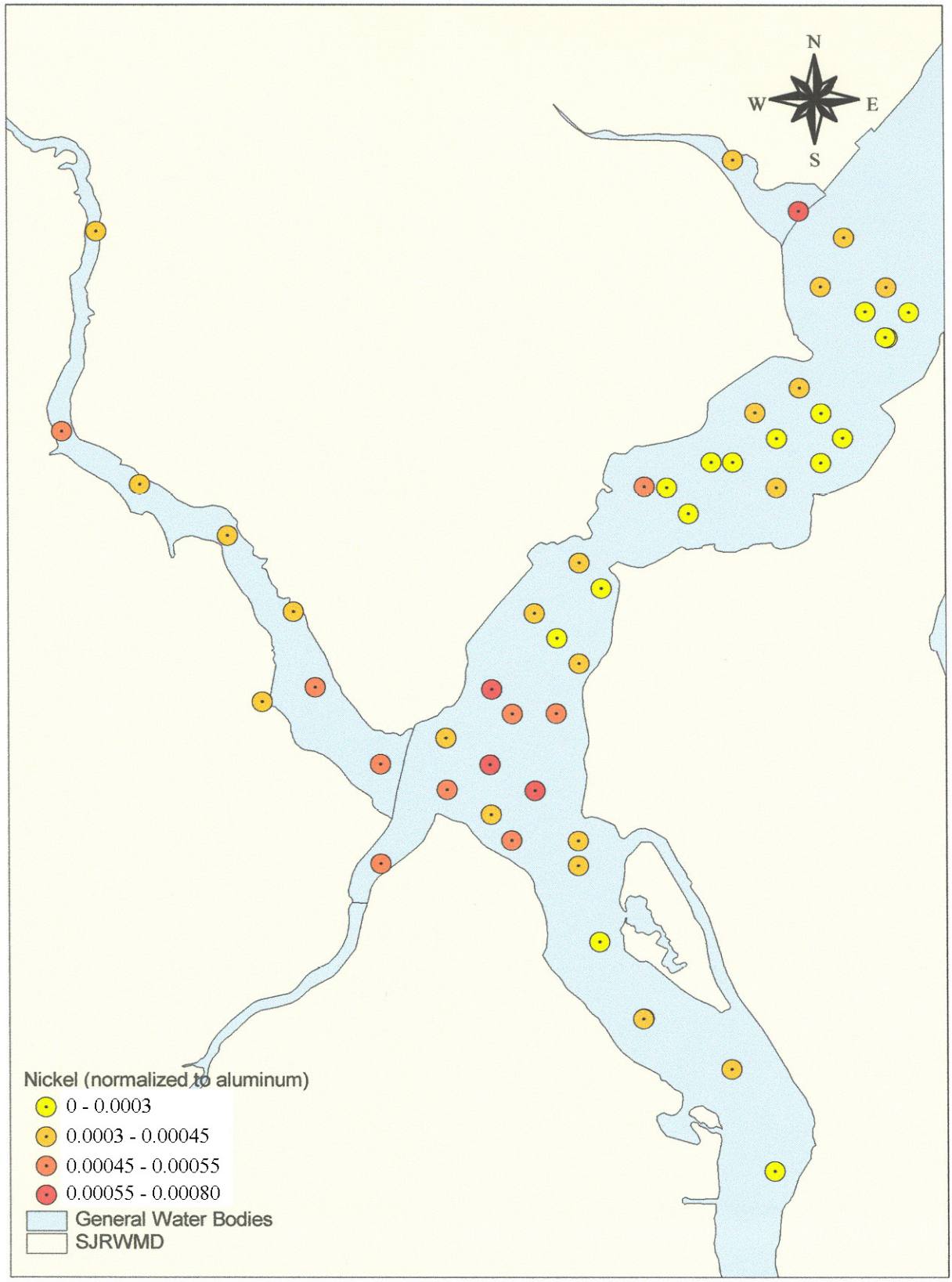

N
W
E
S
Lithium (mg/kg)
0 - 20
20 - 35
35 - 45
45 - 55
General Water Bodies
SJRWMD

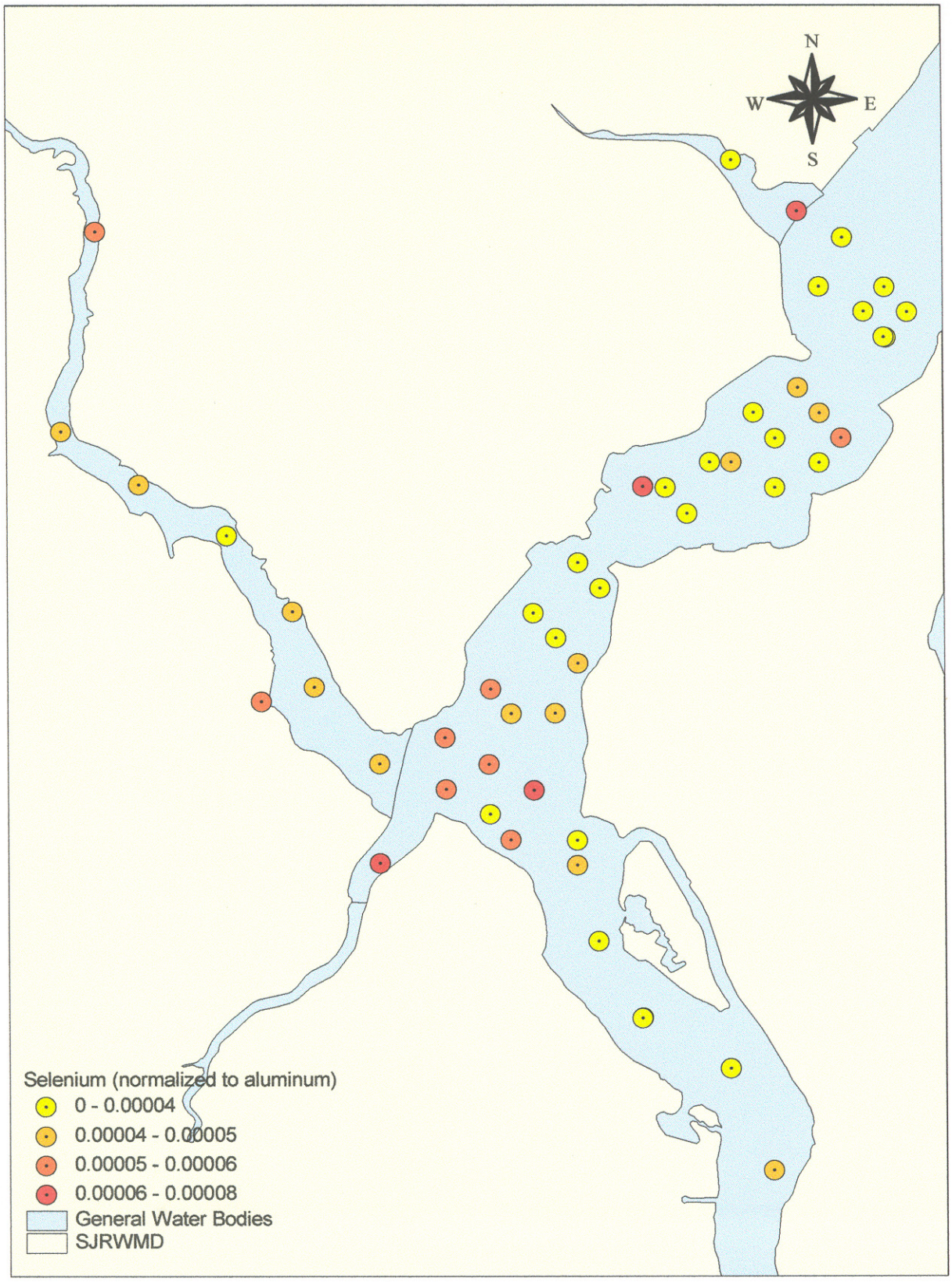

N
W
E
S
Lithium (mg/kg/%Mud)
0 - 0.4
0.4 - 0.8
0.8 - 1.2
1.2 - 1.6
General Water Bodies
SJRWMD

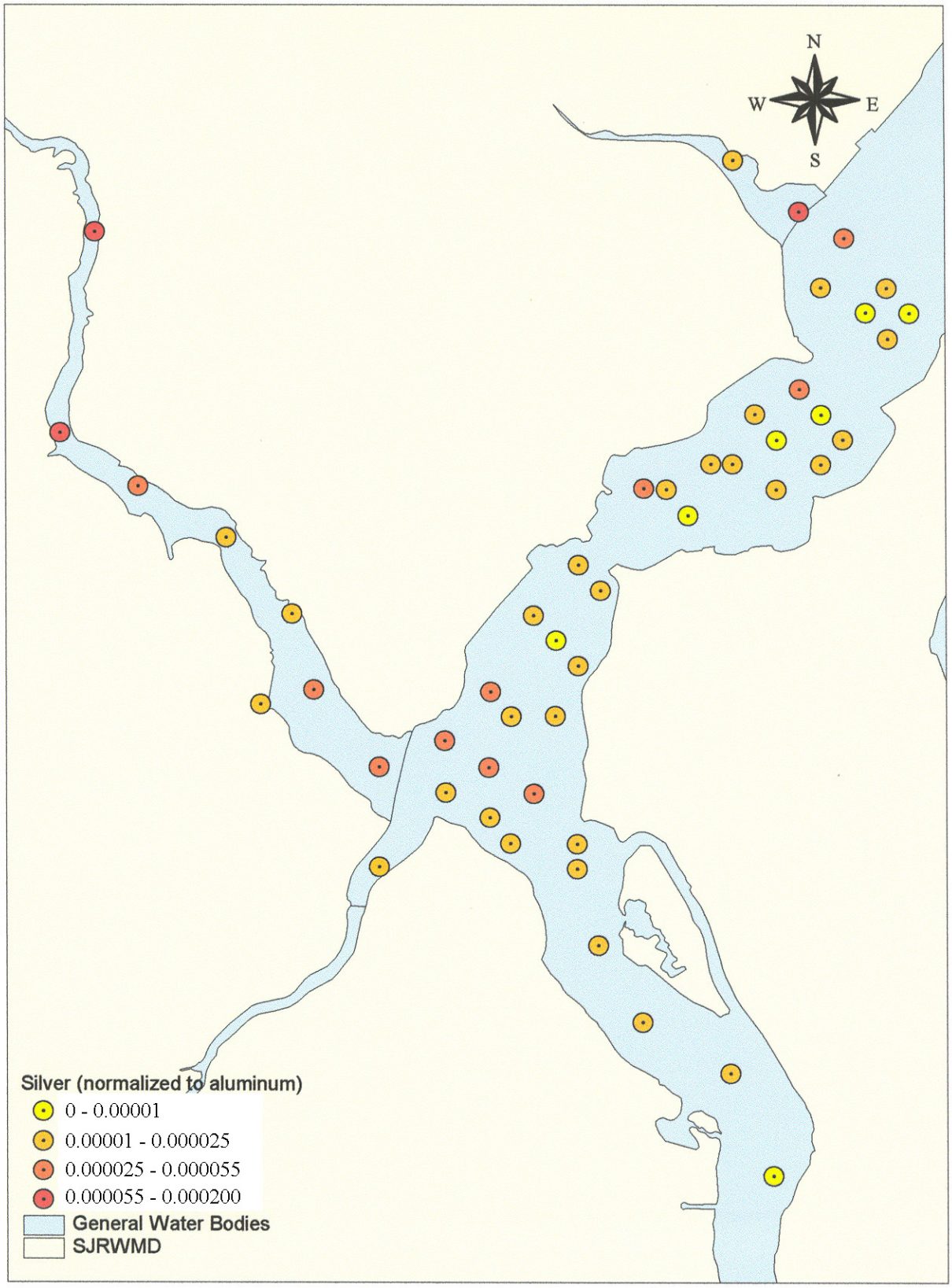

N
W
E
S
Manganese (mg/kg)
0 - 145
145 - 180
180 - 220
220 - 280
General Water Bodies
SJRWMD

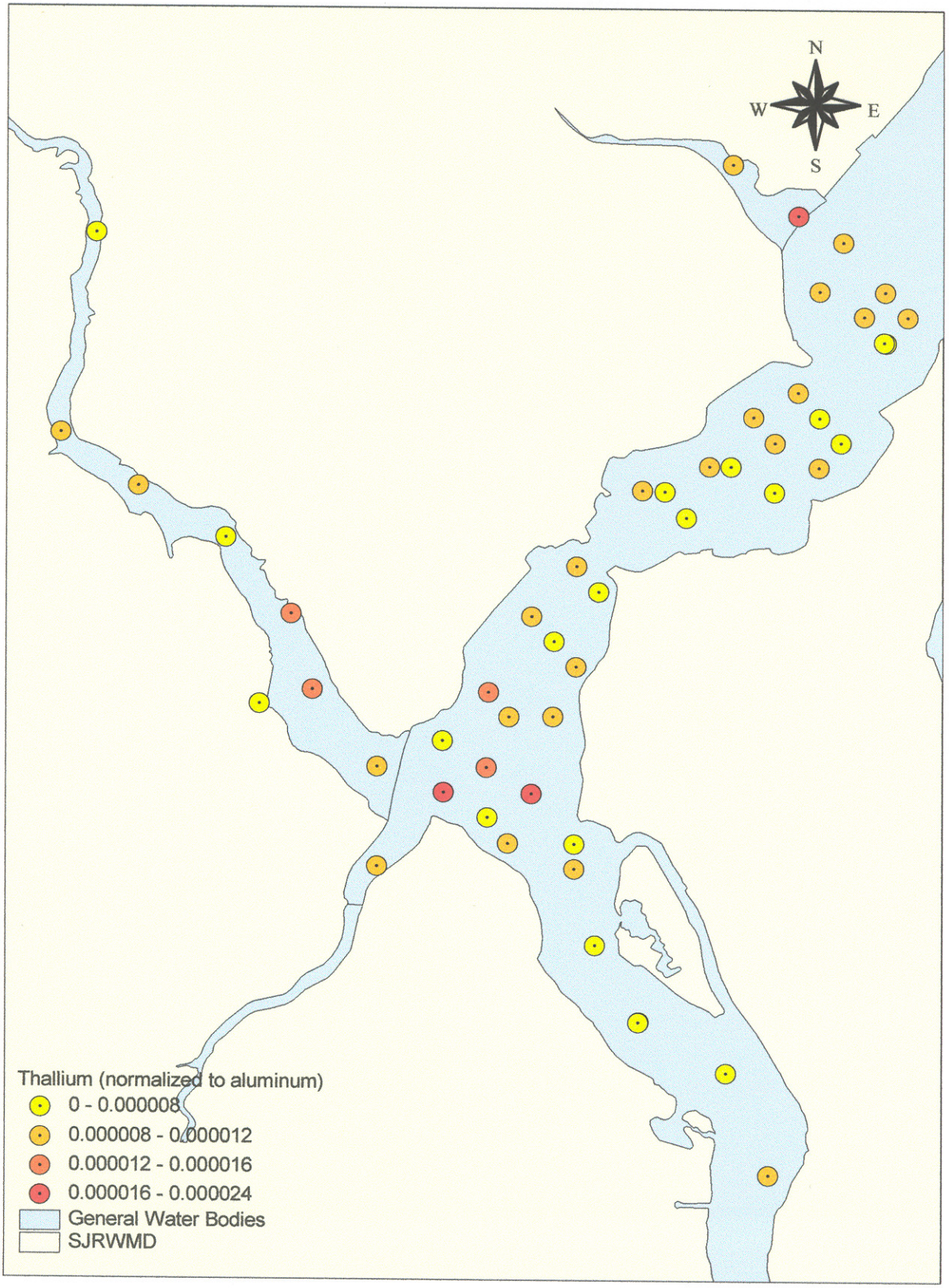

N
W
E
S
Manganese (mg/kg/%Mud)
1 - 2
2 - 4
4 - 8
8 - 12
General Water Bodies
SJRWMD

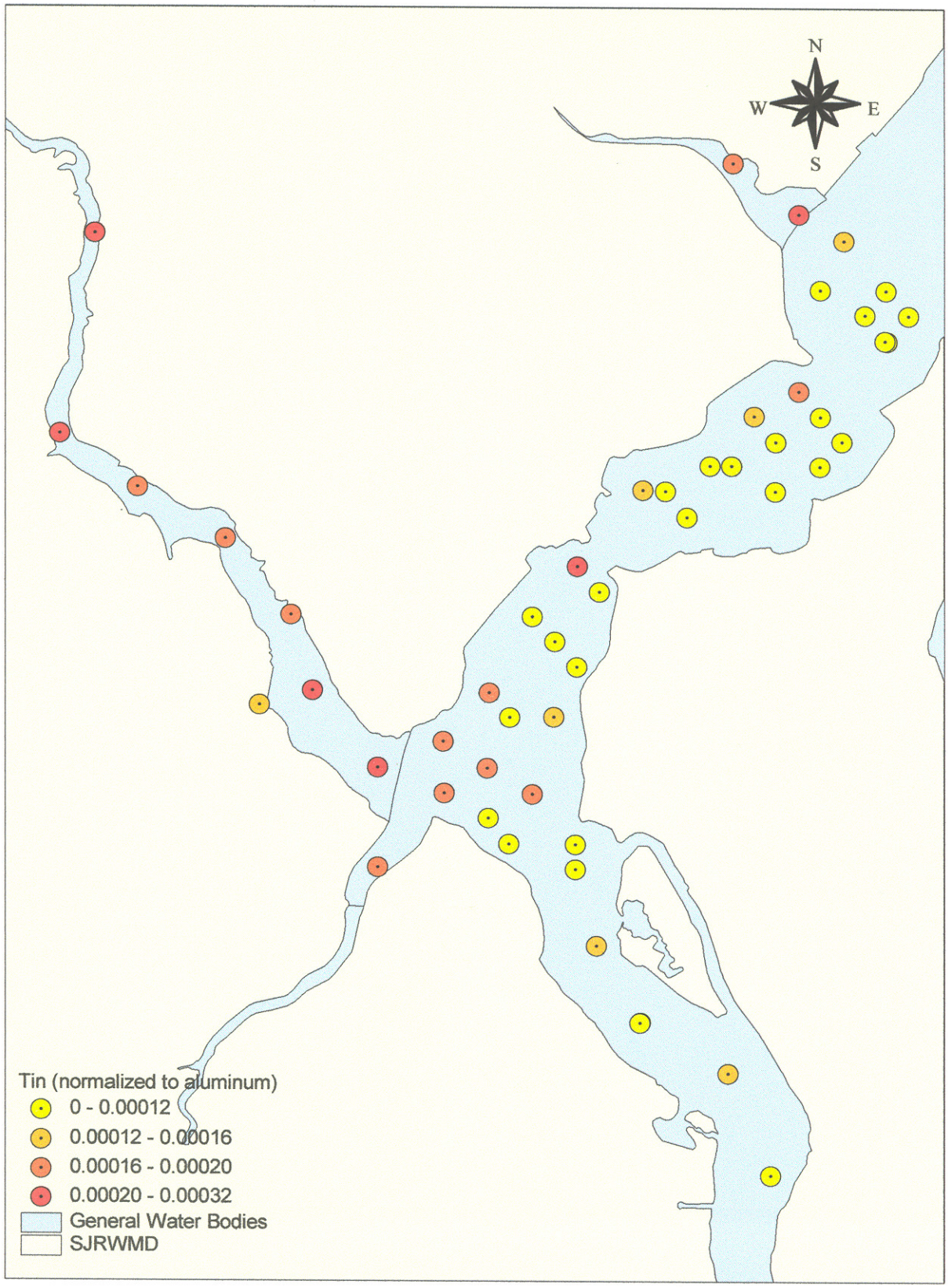

N
W
E
S
Mercury (normalized to aluminum)
0 - 0.000010
0.000010 - 0.000020
0.000020 - 0.000040
0.000040 - 0.000200
General Water Bodies
SJRWMD

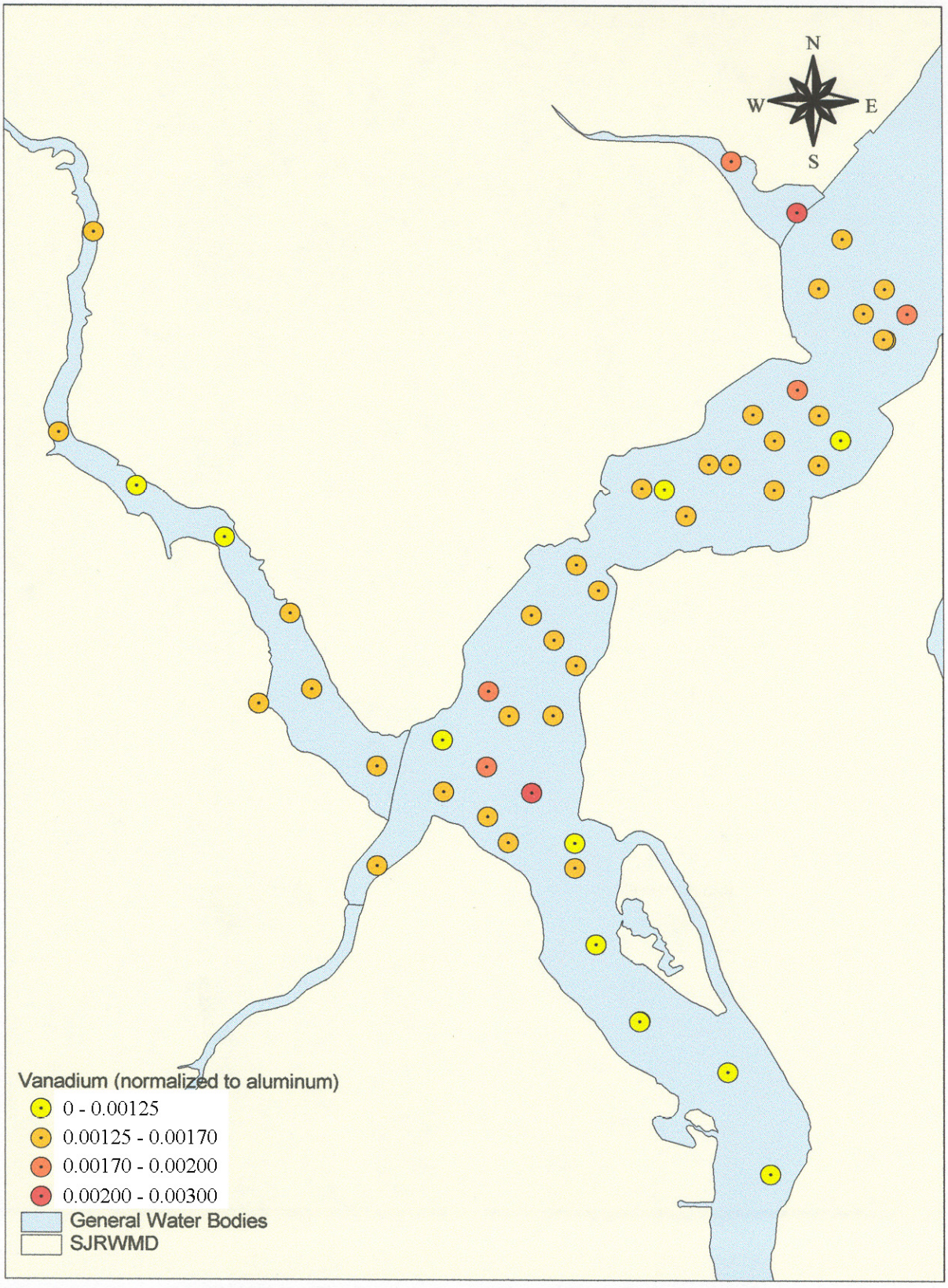

N
W
E
S
Nickel (normalized to aluminum)
0 - 0.0003
0.0003 - 0.00045
0.00045 - 0.00055
0.00055 - 0.00080
General Water Bodies
SJRWMD

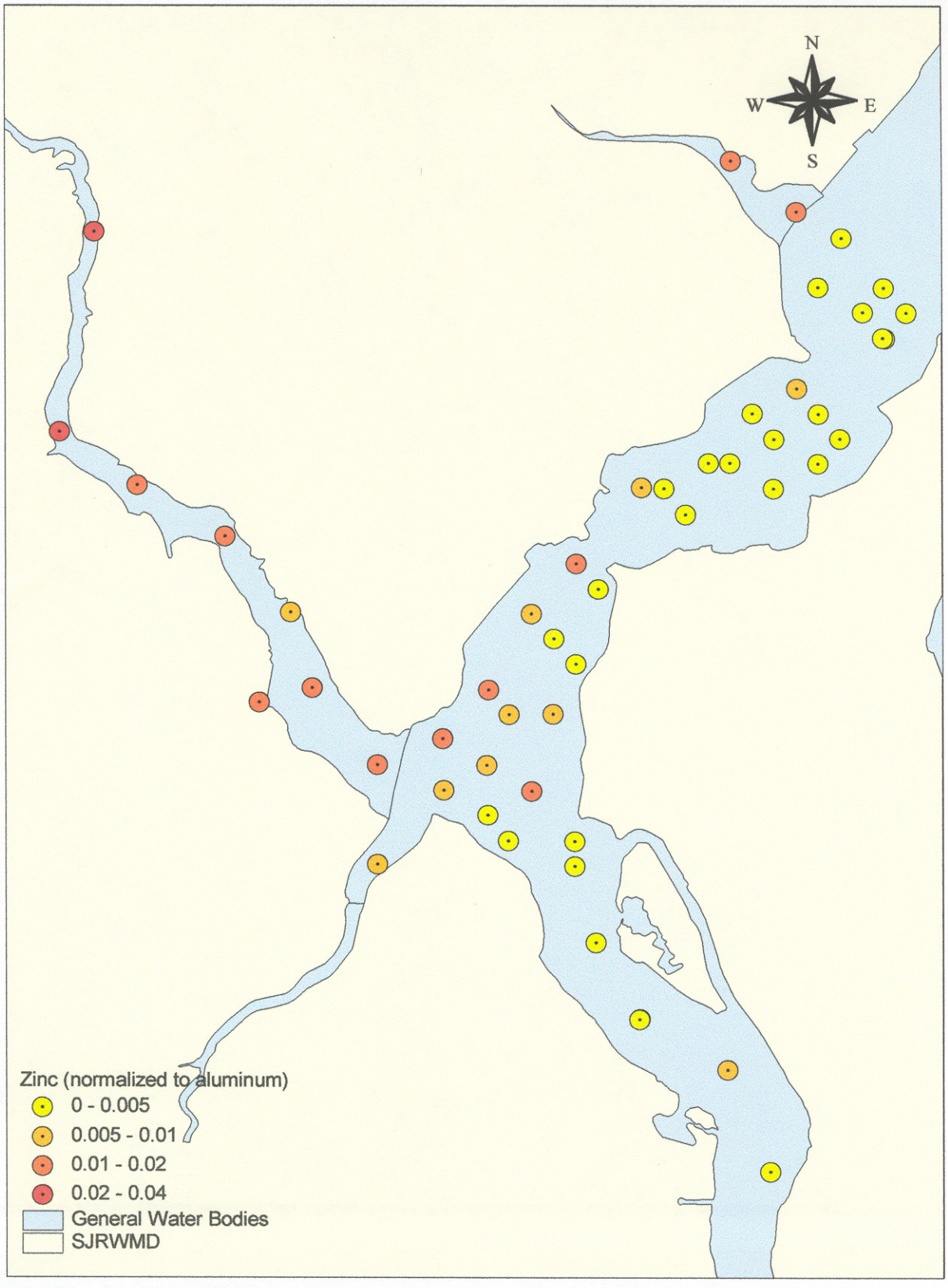

N
W
E
S
Selenium (normalized to aluminum)
0 - 0.00004
0.00004 - 0.00005
0.00005 - 0.00006
0.00006 - 0.00008
General Water Bodies
SJRWMD


N
W
E
S
Silver (normalized to aluminum)
0 - 0.00001
0.00001 - 0.000025
0.000025 - 0.000055
0.000055 - 0.000200
General Water Bodies
SJRWMD


N
W
E
S
Thallium (normalized to aluminum)
0 - 0.000008
0.000008 - 0.000012
0.000012 - 0.000016
0.000016 - 0.000024
General Water Bodies
SJRWMD


N
W
E
S
Tin (normalized to aluminum)
0 - 0.00012
0.00012 - 0.00016
0.00016 - 0.00020
0.00020 - 0.00032
General Water Bodies
SJRWMD


N
W
E
S
Vanadium (normalized to aluminum)
0 - 0.00125
0.00125 - 0.00170
0.00170 - 0.00200
0.00200 - 0.00300
General Water Bodies
SJRWMD


N
W
E
S
Zinc (normalized to aluminum)
0 - 0.005
0.005 - 0.01
0.01 - 0.02
0.02 - 0.04
General Water Bodies
SJRWMD

Appendix R. Estimated Hazard Quotients (HQ) and Hazard Indices (HI) of Surface Sediments from the Cedar-Ortega River Basin Sediment Sites

Appendix R-1 (a). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Freshwater TEC. Organic Contaminants.

Site	Total HI [a] (based on TEC)	Organic Contaminants															
		PAH		PCB		DDT		Chlordane		Lindane		Dieldrin		Endrin		Heptachlor epoxide	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	236	3.42	1.4	167	70.6	16.7	7.0	2.23	0.9	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
CED02	262	7.73	3.0	192	73.3	5.91	2.3	6.24	2.4	2.09	0.8	3.27	1.2	1.17	0.4	0.00	0.0
CED03	77.4	6.46	8.3	38.7	50.0	3.54	4.6	5.37	6.9	0.00	0.0	0.64	0.8	0.82	1.1	0.05	0.1
CED04	105	9.92	9.4	50.8	48.4	3.82	3.6	6.40	6.1	0.00	0.0	1.44	1.4	0.96	0.9	0.00	0.0
CED05	24.5	1.37	5.6	10.8	43.8	1.71	6.9	2.92	11.9	0.55	2.2	0.30	1.2	0.15	0.6	0.00	0.0
CED06	62.4	8.51	13.6	18.8	30.1	4.43	7.1	10.35	16.6	0.69	1.1	1.89	3.0	0.00	0.0	0.00	0.0
CED07	56.8	5.16	9.1	21.3	37.4	2.30	4.1	5.02	8.8	0.78	1.4	0.53	0.9	0.16	0.3	0.00	0.0
CED08	33.5	4.72	14.1	5.52	16.5	2.48	7.4	6.73	20.1	0.00	0.0	1.07	3.2	0.00	0.0	0.08	0.2
CED09	83.4	18.5	22.2	13.7	16.4	6.83	8.2	24.16	29.0	0.23	0.3	2.30	2.8	0.16	0.2	0.00	0.0
CED12	717			717													
CED13	16.6			16.6													
CED14	9.7			9.72													
ORT01	19.9	1.63	8.2	2.93	14.8	2.00	10.1	0.22	1.1	1.44	7.2	0.28	1.4	0.00	0.0	0.00	0.0
ORT02	8.6	0.60	6.9	0.50	5.8	0.35	4.1	0.01	0.1	0.04	0.5	0.05	0.5	0.00	0.0	0.01	0.1
ORT03	7.9	0.56	7.1	2.56	32.5	0.22	2.8	0.00	0.0	0.77	9.7	0.00	0.0	0.00	0.0	0.00	0.0
ORT04	12.1	1.36	11.2	0.73	6.1	1.05	8.7	0.30	2.5	0.08	0.6	0.15	1.2	0.00	0.0	0.04	0.3
ORT05	14.3	2.01	14.1	1.48	10.4	1.85	13.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
ORT06	14.3	1.32	9.2	2.79	19.4	1.43	10.0	0.35	2.5	0.54	3.8	0.16	1.1	0.00	0.0	0.00	0.0
ORT07	36.0	3.28	9.1	2.28	6.3	8.67	24.1	2.45	6.8	0.09	0.3	0.71	2.0	0.43	1.2	0.06	0.2
ORT08	19.5	1.35	7.0	3.29	16.9	2.11	10.8	0.64	3.3	0.00	0.0	0.47	2.4	0.00	0.0	0.00	0.0
ORT09	25.6	2.44	9.5	1.98	7.7	2.99	11.7	1.14	4.4	1.13	4.4	0.40	1.5	0.00	0.0	0.00	0.0
ORT10	25.0	2.49	10.0	2.95	11.8	1.79	7.2	1.13	4.5	0.75	3.0	0.34	1.4	0.00	0.0	0.00	0.0
ORT11	20.1	1.82	9.1	3.25	16.2	2.08	10.4	0.83	4.1	0.13	0.7	0.52	2.6	0.00	0.0	0.00	0.0
ORT12	26.8	3.48	13.0	5.63	21.0	3.00	11.2	1.52	5.7	0.21	0.8	0.90	3.4	0.15	0.5	0.00	0.0
ORT13	26.0	3.27	12.6	2.78	10.7	3.94	15.1	1.61	6.2	0.00	0.0	0.00	0.0	0.21	0.8	0.00	0.0
ORT14	7.9	1.17	14.9	0.55	7.0	0.86	10.9	0.06	0.7	0.20	2.5	0.00	0.0	0.09	1.2	0.00	0.0
ORT15	36.8	4.39	11.9	5.15	14.0	4.33	11.8	3.66	9.9	0.00	0.0	1.35	3.7	0.00	0.0	0.00	0.0

ORT16	20.2	2.77	13.7	1.78	8.8	2.99	14.8	1.07	5.3	0.50	2.5	0.37	1.8	0.00	0.0	0.00	0.0
ORT18	18.8	3.01	16.0	1.91	10.2	1.53	8.1	1.27	6.8	0.42	2.2	0.12	0.7	0.21	1.1	0.09	0.5
ORT19	34.9	5.06	14.5	8.15	23.4	2.21	6.3	0.81	2.3	0.00	0.0	0.00	0.0	0.15	0.4	0.01	0.0
ORT20	7.0	1.10	15.7	0.75	10.7	0.55	7.9	0.17	2.4	0.21	3.1	0.03	0.5	0.00	0.0	0.00	0.0
ORT21	23.2	2.42	10.5	3.06	13.2	2.58	11.1	1.34	5.8	0.57	2.5	0.55	2.4	0.00	0.0	0.09	0.4
ORT22	38.4	3.40	8.9	7.50	19.6	2.64	6.9	2.44	6.3	0.26	0.7	0.20	0.5	0.19	0.5	0.05	0.1
ORT23	27.0	2.47	9.1	5.39	20.0	2.80	10.4	1.92	7.1	2.80	10.4	0.48	1.8	0.00	0.0	0.00	0.0
ORT24	32.6	3.58	11.0	3.10	9.5	5.11	15.7	3.17	9.7	0.89	2.7	1.03	3.2	0.00	0.0	0.00	0.0
ORT25	53.9	7.64	14.2	7.38	13.7	4.75	8.8	9.95	18.5	0.96	1.8	1.81	3.4	0.00	0.0	0.16	0.3
ORT26	37.1	4.24	11.4	5.60	15.1	4.09	11.0	3.94	10.6	0.67	1.8	0.82	2.2	0.00	0.0	0.00	0.0
ORT27	46.3	5.20	11.2	8.77	19.0	3.26	7.0	4.27	9.2	0.00	0.0	1.28	2.8	0.14	0.3	0.20	0.4
ORT28	31.6	3.12	9.9	2.92	9.2	3.78	12.0	3.89	12.3	0.78	2.5	1.30	4.1	0.00	0.0	1.03	3.3
ORT29	15.7	0.46	2.9	2.07	13.2	0.43	2.7	0.70	4.5	0.11	0.7	0.17	1.1	0.00	0.0	0.22	1.4
ORT30	3.6	0.35	9.7	0.15	4.2	0.18	4.9	0.00	0.0	0.17	4.7	0.10	2.9	0.00	0.0	0.00	0.0
ORT31	71.6	6.91	9.7	5.14	7.2	6.66	9.3	29.29	40.9	1.13	1.6	0.57	0.8	0.00	0.0	0.05	0.1
ORT32	38.2	3.92	10.3	4.29	11.2	5.19	13.6	8.74	22.9	0.85	2.2	1.18	3.1	0.00	0.0	0.00	0.0
ORT33	59.8	9.47	15.8	2.99	5.0	9.74	16.3	23.19	38.8	0.27	0.4	4.24	7.1	2.27	3.8	0.64	1.1
ORT34	22.9	2.60	11.3	4.31	18.8	2.44	10.7	1.32	5.8	0.37	1.6	0.25	1.1	0.11	0.5	0.00	0.0
ORT35	19.1	2.43	12.7	1.90	10.0	2.22	11.6	1.69	8.9	0.65	3.4	0.39	2.1	0.00	0.0	0.00	0.0
ORT36	22.7	2.49	11.0	1.92	8.5	3.63	16.0	2.31	10.2	0.64	2.8	0.46	2.0	0.00	0.0	0.11	0.5
ORT37	37.5	4.14	11.0	7.23	19.3	3.27	8.7	4.81	12.8	0.71	1.9	1.16	3.1	0.00	0.0	0.04	0.1
ORT38	32.1	3.20	10.0	1.95	6.1	7.12	22.2	1.66	5.2	0.00	0.0	0.80	2.5	0.10	0.3	0.00	0.0
ORT39	30.8	2.59	8.4	5.41	17.5	4.74	15.4	1.77	5.7	0.55	1.8	0.33	1.1	0.14	0.5	0.03	0.1
ORT40	26.7	3.02	11.3	3.19	11.9	1.41	5.3	2.45	9.2	1.10	4.1	0.24	0.9	0.22	0.8	0.00	0.0
ORT41	14.5	1.26	8.7	1.28	8.9	1.85	12.8	0.46	3.2	0.28	1.9	0.16	1.1	0.23	1.6	0.03	0.2
Total # Sites		49		52		49		49		49		49		49		49	
# Sites with HQs >1		45		47		43		35		6		13		2		1	
# Sites with HQs >10		1		10		1		4		0		0		0		0	
% Sites with HQs >1		91.8		90.4		87.8		71.4		12.2		26.5		4.1		2.0	
% Sites with HQs >10		2.0		19.2		2.0		8.2		0		0		0		0	
Contaminants average % contribution to HI			10.6		18.4		9.8		8.5		2.0		1.8		0.3		0.2

[a] The Hazard Index (Total HI) is the sum of all the organic contaminant (Appendix R-1a) and metal contaminant (Appendix R-1b) HQ values.

Appendix R-1 (b). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Freshwater TEC. Metal Contaminants.

Site	Total HI[a] (based on TEC)	Metal Contaminants																	
		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	236	2.50	1.1	3.87	1.6	2.21	0.9	2.63	1.1	7.49	3.2	5.12	2.2	1.00	0.4	5.39	2.3	16.9	7.2
CED02	262	1.54	0.6	3.68	1.4	2.16	0.8	3.29	1.3	10.73	4.1	5.10	1.9	1.05	0.4	4.04	1.5	11.8	4.5
CED03	77.4	0.64	0.8	2.09	2.7	1.21	1.6	2.07	2.7	4.92	6.3	4.10	5.3	0.73	0.9	1.06	1.4	5.02	6.5
CED04	105	0.88	0.8	3.06	2.9	1.87	1.8	2.79	2.7	8.80	8.4	5.29	5.0	1.00	0.9	1.37	1.3	6.58	6.3
CED05	24.5	0.18	0.7	0.56	2.3	0.52	2.1	0.43	1.8	1.65	6.7	1.63	6.7	0.32	1.3	0.26	1.1	1.25	5.1
CED06	62.4	0.56	0.9	1.34	2.2	1.32	2.1	1.71	2.7	4.02	6.4	3.54	5.7	0.67	1.1	0.87	1.4	3.71	5.9
CED07	56.8	0.53	0.9	1.67	2.9	1.53	2.7	1.80	3.2	4.39	7.7	6.33	11.2	0.73	1.3	1.11	2.0	3.50	6.2
CED08	33.5	0.29	0.9	1.30	3.9	1.13	3.4	1.45	4.3	2.35	7.0	2.99	8.9	0.62	1.8	0.47	1.4	2.36	7.0
CED09	83.4	0.51	0.6	1.44	1.7	1.19	1.4	1.66	2.0	4.16	5.0	2.94	3.5	0.66	0.8	0.68	0.8	4.32	5.2
CED12	717																		
CED13	16.6																		
CED14	9.7																		
ORT01	19.9	0.55	2.8	1.44	7.3	1.34	6.7	0.68	3.4	1.45	7.3	3.57	18.0	0.61	3.1	0.80	4.0	0.93	4.7
ORT02	8.6	0.39	4.5	0.51	5.9	1.26	14.6	0.33	3.9	0.47	5.4	2.68	31.1	0.63	7.4	0.37	4.3	0.43	5.0
ORT03	7.9	0.43	5.4	0.22	2.8	1.17	14.9	0.17	2.1	0.33	4.1	0.32	4.0	0.56	7.1	0.11	1.4	0.48	6.1
ORT04	12.1	0.44	3.7	0.67	5.5	1.26	10.4	0.44	3.6	0.66	5.4	3.32	27.5	0.67	5.5	0.39	3.2	0.54	4.5
ORT05	14.3	0.45	3.1	0.77	5.4	1.24	8.7	0.60	4.2	1.14	8.0	2.77	19.5	0.60	4.2	0.46	3.2	0.89	6.3
ORT06	14.3	0.45	3.1	0.89	6.2	1.33	9.3	0.48	3.4	0.82	5.7	2.02	14.1	0.59	4.1	0.48	3.3	0.67	4.7
ORT07	36.0	0.75	2.1	1.65	4.6	1.73	4.8	1.74	4.8	2.52	7.0	5.78	16.0	0.92	2.6	1.08	3.0	1.89	5.3
ORT08	19.5	0.56	2.9	1.09	5.6	1.51	7.8	0.79	4.1	1.31	6.7	3.27	16.8	0.74	3.8	0.90	4.6	1.42	7.3
ORT09	25.6	0.65	2.5	1.72	6.7	1.35	5.3	0.90	3.5	1.77	6.9	5.72	22.3	0.61	2.4	0.91	3.6	1.93	7.5
ORT10	25.0	0.66	2.7	1.37	5.5	1.37	5.5	1.17	4.7	1.95	7.8	5.89	23.5	0.65	2.6	0.94	3.8	1.56	6.2
ORT11	20.1	0.69	3.4	1.05	5.2	1.45	7.2	0.82	4.1	1.54	7.7	2.73	13.6	0.70	3.5	0.65	3.2	1.81	9.0
ORT12	26.8	0.67	2.5	0.92	3.4	1.43	5.3	1.41	5.3	1.75	6.5	3.17	11.8	0.70	2.6	0.63	2.3	1.28	4.8
ORT13	26.0	0.68	2.6	1.33	5.1	1.52	5.9	1.21	4.6	2.31	8.9	3.54	13.6	0.75	2.9	0.79	3.0	2.05	7.9
ORT14	7.9	0.33	4.2	0.42	5.3	1.19	15.1	0.34	4.4	0.49	6.2	0.89	11.4	0.60	7.7	0.29	3.7	0.39	5.0
ORT15	36.8	1.04	2.8	1.26	3.4	1.58	4.3	3.20	8.7	2.08	5.6	4.17	11.3	0.81	2.2	1.16	3.2	2.60	7.1

ORT16	20.2	0.42	2.1	0.85	4.2	1.38	6.9	1.00	5.0	1.37	6.8	3.37	16.7	0.70	3.5	0.57	2.8	1.05	5.2
ORT18	18.8	0.38	2.0	0.92	4.9	1.16	6.2	0.92	4.9	1.58	8.4	2.98	15.9	0.62	3.3	0.50	2.7	1.16	6.2
ORT19	34.9	0.29	0.8	0.30	0.9	0.36	1.0	2.91	8.3	1.45	4.2	11.64	33.4	0.19	0.6	0.27	0.8	1.11	3.2
ORT20	7.0	0.34	4.8	0.29	4.2	0.95	13.6	0.40	5.6	0.51	7.3	0.58	8.3	0.54	7.7	0.19	2.7	0.39	5.5
ORT21	23.2	0.47	2.0	0.86	3.7	1.31	5.7	0.96	4.1	1.94	8.4	4.57	19.7	0.61	2.6	0.70	3.0	1.13	4.9
ORT22	38.4	0.66	1.7	1.29	3.4	1.25	3.2	2.56	6.7	2.20	5.7	9.32	24.3	0.67	1.8	0.73	1.9	3.02	7.9
ORT23	27.0	0.47	1.7	0.59	2.2	1.30	4.8	0.83	3.1	1.44	5.3	3.88	14.4	0.60	2.2	0.47	1.8	1.56	5.8
ORT24	32.6	0.68	2.1	1.02	3.1	1.53	4.7	1.59	4.9	2.49	7.6	4.92	15.1	0.74	2.3	0.85	2.6	1.93	5.9
ORT25	53.9	0.71	1.3	1.75	3.2	1.86	3.4	2.70	5.0	3.72	6.9	4.14	7.7	0.89	1.6	1.18	2.2	4.30	8.0
ORT26	37.1	0.55	1.5	1.59	4.3	1.63	4.4	1.86	5.0	2.99	8.1	5.29	14.3	0.79	2.1	0.95	2.6	2.07	5.6
ORT27	46.3	0.63	1.4	1.76	3.8	1.65	3.6	2.26	4.9	3.72	8.0	6.06	13.1	0.82	1.8	1.39	3.0	4.85	10.5
ORT28	31.6	0.77	2.4	1.18	3.7	1.34	4.2	1.63	5.2	2.15	6.8	3.61	11.4	0.68	2.2	0.71	2.2	2.70	8.6
ORT29	15.7	0.21	1.4	1.12	7.1	1.29	8.2	0.88	5.6	1.60	10.2	4.09	26.1	0.70	4.5	0.63	4.0	1.03	6.6
ORT30	3.6	0.14	3.9	0.14	3.9	0.43	11.9	0.15	4.3	0.28	7.9	0.56	15.7	0.19	5.3	0.11	3.0	0.62	17.5
ORT31	71.6	0.52	0.7	1.67	2.3	1.31	1.8	1.34	1.9	6.79	9.5	4.98	7.0	0.63	0.9	2.36	3.3	2.26	3.2
ORT32	38.2	0.67	1.8	1.22	3.2	1.47	3.9	1.34	3.5	2.74	7.2	3.06	8.0	0.69	1.8	1.24	3.2	1.55	4.0
ORT33	59.8	0.18	0.3	0.58	1.0	0.39	0.6	0.69	1.2	2.42	4.0	0.49	0.8	0.22	0.4	0.25	0.4	1.79	3.0
ORT34	22.9	0.34	1.5	1.07	4.7	1.24	5.4	1.05	4.6	1.85	8.1	3.26	14.2	0.67	2.9	0.55	2.4	1.50	6.5
ORT35	19.1	0.52	2.7	0.48	2.5	1.11	5.8	0.90	4.7	1.49	7.8	3.23	16.9	0.54	2.8	0.38	2.0	1.16	6.1
ORT36	22.7	0.52	2.3	1.03	4.5	1.32	5.8	1.02	4.5	1.79	7.9	3.04	13.4	0.65	2.9	0.55	2.4	1.22	5.4
ORT37	37.5	0.52	1.4	1.28	3.4	1.46	3.9	1.53	4.1	2.82	7.5	5.09	13.6	0.72	1.9	0.65	1.7	2.05	5.5
ORT38	32.1	0.81	2.5	1.73	5.4	1.40	4.4	0.92	2.9	1.99	6.2	7.67	23.9	0.68	2.1	0.79	2.5	1.27	4.0
ORT39	30.8	0.42	1.4	1.37	4.4	1.50	4.9	0.85	2.8	1.85	6.0	6.23	20.2	0.78	2.5	0.75	2.4	1.52	4.9
ORT40	26.7	0.49	1.8	1.47	5.5	1.31	4.9	1.32	5.0	2.75	10.3	4.03	15.1	0.71	2.7	0.71	2.7	2.28	8.5
ORT41	14.5	0.31	2.1	0.65	4.5	0.92	6.4	0.61	4.2	0.80	5.5	4.04	28.0	0.57	4.0	0.33	2.2	0.66	4.6
Total # Sites		49		49		49		49		49		49		49		49		49	
# Sites with HQs >1		3		31		43		27		41		44		2		11		39	
# Sites with HQs >10		0		0		0		0		1		1		0		0		2	
% Sites with HQs >1		6.1		63.3		87.8		55.1		83.7		89.8		4.1		22.4		79.6	
% Sites with HQs >10		0		0		0		0		2.0		2.0		0		0		4.1	
Contaminants average % contribution to HI			2.1		4.0		5.6		4.0		6.9		14.3		2.8		2.5		6.2

[a] The Hazard Index (HI) is the sum of all the organic contaminant (Appendix R-1a) and metal contaminant (Appendix R-1b) HQ values.

Appendix R-2 (a). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Freshwater PEC. Organic Contaminants.

Site	Total HI [a] (based on PEC)	Organic Contaminants															
		PAH		PCB		DDT		Chlordane		Lindane		Dieldrin		Endrin		Heptachlor epoxide	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	27.8	0.24	0.9	14.8	53.0	0.15	0.6	0.41	1.5	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
CED02	31.1	0.55	1.8	17.0	54.6	0.05	0.2	1.15	3.7	0.99	3.2	0.10	0.3	0.01	0.0	0.00	0.0
CED03	10.5	0.46	4.4	3.43	32.7	0.03	0.3	0.99	9.4	0.00	0.0	0.02	0.2	0.01	0.1	0.01	0.1
CED04	14.6	0.70	4.8	4.49	30.8	0.04	0.2	1.18	8.1	0.00	0.0	0.04	0.3	0.01	0.1	0.00	0.0
CED05	3.6	0.10	2.7	0.95	26.3	0.02	0.4	0.54	14.8	0.26	7.2	0.01	0.3	0.00	0.0	0.00	0.0
CED06	9.2	0.60	6.6	1.66	18.1	0.04	0.4	1.91	20.8	0.33	3.6	0.06	0.6	0.00	0.0	0.00	0.0
CED07	8.9	0.36	4.1	1.88	21.1	0.02	0.2	0.92	10.4	0.37	4.2	0.02	0.2	0.00	0.0	0.00	0.0
CED08	5.4	0.33	6.1	0.49	9.0	0.02	0.4	1.24	22.8	0.00	0.0	0.03	0.6	0.00	0.0	0.01	0.2
CED09	11.8	1.31	11.1	1.21	10.3	0.06	0.5	4.45	37.8	0.11	0.9	0.07	0.6	0.00	0.0	0.00	0.0
CED12	63.4			63.4													
CED13	1.5			1.47													
CED14	0.9			0.86													
ORT01	4.0	0.12	2.9	0.26	6.5	0.02	0.5	0.04	1.0	0.68	17.1	0.01	0.2	0.00	0.0	0.00	0.0
ORT02	2.0	0.04	2.1	0.04	2.2	0.00	0.2	0.00	0.1	0.02	1.0	0.00	0.1	0.00	0.0	0.00	0.1
ORT03	1.9	0.04	2.1	0.23	12.2	0.00	0.1	0.00	0.0	0.36	19.6	0.00	0.0	0.00	0.0	0.00	0.0
ORT04	2.4	0.10	4.0	0.06	2.7	0.01	0.4	0.06	2.3	0.04	1.5	0.00	0.2	0.00	0.0	0.01	0.2
ORT05	2.6	0.14	5.4	0.13	5.0	0.02	0.7	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
ORT06	2.8	0.09	3.4	0.25	8.9	0.01	0.5	0.07	2.4	0.26	9.3	0.00	0.2	0.00	0.0	0.00	0.0
ORT07	5.5	0.23	4.2	0.20	3.6	0.08	1.4	0.45	8.1	0.04	0.8	0.02	0.4	0.00	0.1	0.01	0.2
ORT08	3.6	0.10	2.7	0.29	8.2	0.02	0.5	0.12	3.3	0.00	0.0	0.01	0.4	0.00	0.0	0.00	0.0
ORT09	4.9	0.17	3.5	0.18	3.6	0.03	0.6	0.21	4.3	0.54	11.0	0.01	0.2	0.00	0.0	0.00	0.0
ORT10	4.8	0.18	3.7	0.26	5.4	0.02	0.3	0.21	4.3	0.36	7.4	0.01	0.2	0.00	0.0	0.00	0.0
ORT11	3.7	0.13	3.5	0.29	7.8	0.02	0.5	0.15	4.1	0.06	1.7	0.02	0.4	0.00	0.0	0.00	0.0
ORT12	4.3	0.25	5.7	0.50	11.6	0.03	0.6	0.28	6.5	0.10	2.3	0.03	0.6	0.00	0.0	0.00	0.0
ORT13	4.5	0.23	5.2	0.25	5.5	0.04	0.8	0.30	6.6	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
ORT14	1.7	0.08	4.8	0.05	2.8	0.01	0.5	0.01	0.6	0.10	5.6	0.00	0.0	0.00	0.1	0.00	0.0
ORT15	6.0	0.31	5.1	0.46	7.5	0.04	0.7	0.67	11.1	0.00	0.0	0.04	0.7	0.00	0.0	0.00	0.0

ORT16	3.6	0.20	5.5	0.16	4.4	0.03	0.8	0.20	5.5	0.24	6.6	0.01	0.3	0.00	0.0	0.00	0.0
ORT18	3.5	0.21	6.1	0.17	4.9	0.01	0.4	0.23	6.8	0.20	5.7	0.00	0.1	0.00	0.1	0.01	0.4
ORT19	5.0	0.36	7.2	0.72	14.5	0.02	0.4	0.15	3.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
ORT20	1.5	0.08	5.0	0.07	4.3	0.01	0.3	0.03	2.0	0.10	6.6	0.00	0.1	0.00	0.0	0.00	0.0
ORT21	4.1	0.17	4.1	0.27	6.5	0.02	0.6	0.25	6.0	0.27	6.5	0.02	0.4	0.00	0.0	0.01	0.3
ORT22	6.5	0.24	3.7	0.66	10.2	0.02	0.4	0.45	6.9	0.12	1.9	0.01	0.1	0.00	0.0	0.01	0.1
ORT23	5.2	0.17	3.4	0.48	9.2	0.03	0.5	0.35	6.8	1.33	25.6	0.01	0.3	0.00	0.0	0.00	0.0
ORT24	5.6	0.25	4.5	0.27	4.9	0.05	0.8	0.58	10.5	0.42	7.6	0.03	0.6	0.00	0.0	0.00	0.0
ORT25	9.1	0.54	5.9	0.65	7.2	0.04	0.5	1.83	20.2	0.46	5.0	0.06	0.6	0.00	0.0	0.02	0.3
ORT26	6.3	0.30	4.7	0.50	7.8	0.04	0.6	0.72	11.5	0.32	5.0	0.03	0.4	0.00	0.0	0.00	0.0
ORT27	7.8	0.37	4.7	0.78	10.0	0.03	0.4	0.79	10.1	0.00	0.0	0.04	0.5	0.00	0.0	0.03	0.4
ORT28	5.6	0.22	4.0	0.26	4.6	0.03	0.6	0.72	12.9	0.37	6.6	0.04	0.7	0.00	0.0	0.16	2.9
ORT29	3.3	0.03	1.0	0.18	5.5	0.00	0.1	0.13	3.9	0.05	1.6	0.01	0.2	0.00	0.0	0.03	1.0
ORT30	0.8	0.02	2.9	0.01	1.6	0.00	0.2	0.00	0.0	0.08	9.5	0.00	0.4	0.00	0.0	0.00	0.0
ORT31	12.5	0.49	3.9	0.45	3.6	0.06	0.5	5.39	43.1	0.54	4.3	0.02	0.1	0.00	0.0	0.01	0.1
ORT32	6.4	0.28	4.3	0.38	5.9	0.05	0.7	1.61	25.1	0.41	6.3	0.04	0.6	0.00	0.0	0.00	0.0
ORT33	7.5	0.67	8.9	0.26	3.5	0.09	1.2	4.27	56.6	0.13	1.7	0.13	1.7	0.02	0.3	0.10	1.3
ORT34	4.0	0.18	4.6	0.38	9.6	0.02	0.6	0.24	6.1	0.18	4.5	0.01	0.2	0.00	0.0	0.00	0.0
ORT35	3.5	0.17	4.9	0.17	4.8	0.02	0.6	0.31	8.9	0.31	8.9	0.01	0.3	0.00	0.0	0.00	0.0
ORT36	4.0	0.18	4.4	0.17	4.2	0.03	0.8	0.43	10.6	0.30	7.5	0.01	0.4	0.00	0.0	0.02	0.4
ORT37	6.2	0.29	4.7	0.64	10.2	0.03	0.5	0.89	14.2	0.34	5.4	0.04	0.6	0.00	0.0	0.01	0.1
ORT38	4.8	0.23	4.7	0.17	3.6	0.07	1.4	0.31	6.3	0.00	0.0	0.02	0.5	0.00	0.0	0.00	0.0
ORT39	5.0	0.18	3.7	0.48	9.5	0.04	0.9	0.33	6.5	0.26	5.2	0.01	0.2	0.00	0.0	0.00	0.1
ORT40	5.3	0.21	4.0	0.28	5.3	0.01	0.2	0.45	8.5	0.52	9.9	0.01	0.1	0.00	0.0	0.00	0.0
ORT41	2.6	0.09	3.4	0.11	4.4	0.02	0.7	0.09	3.3	0.13	5.1	0.00	0.2	0.00	0.1	0.01	0.2
Total # Sites		49		52		49		49		49		49		49		49	
# Sites with HQs >1		1		9		0		9		1		0		0		0	
# Sites with HQs >10		0		3		0		0		0		0		0		0	
% Sites with HQs >1		2.0		17.3		0		18.4		2.0		0		0		0	
% Sites with HQs >10		0		5.8		0		0		0		0		0		0	
Contaminants average % contribution to HI			4.4		10.4		0.5		9.8		5.0		0.3		0.0		0.2

[a] The Hazard Index (Total HI) is the sum of all the organic contaminant (Appendix R-2a) and metal contaminant (Appendix R-2b) HQ values.

Appendix R-2 (b). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Freshwater PEC. Metal Contaminants.

Site	Total HI[a] (based on PEC)	Metal Contaminants																	
		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	27.8	0.74	2.7	0.77	2.8	0.86	3.1	0.56	2.0	2.09	7.5	0.87	3.1	0.47	1.7	1.46	5.2	4.47	16.0
CED02	31.1	0.46	1.5	0.73	2.3	0.85	2.7	0.70	2.2	3.00	9.6	0.87	2.8	0.49	1.6	1.09	3.5	3.12	10.0
CED03	10.5	0.19	1.8	0.42	4.0	0.47	4.5	0.44	4.2	1.38	13.1	0.70	6.6	0.34	3.2	0.29	2.7	1.32	12.6
CED04	14.6	0.26	1.8	0.61	4.2	0.73	5.0	0.59	4.1	2.46	16.9	0.90	6.2	0.47	3.2	0.37	2.5	1.73	11.9
CED05	3.6	0.05	1.4	0.11	3.1	0.20	5.6	0.09	2.5	0.46	12.7	0.28	7.7	0.15	4.2	0.07	2.0	0.33	9.1
CED06	9.2	0.17	1.8	0.27	2.9	0.52	5.7	0.36	4.0	1.13	12.3	0.60	6.6	0.31	3.4	0.23	2.6	0.98	10.7
CED07	8.9	0.16	1.8	0.33	3.7	0.60	6.7	0.38	4.3	1.23	13.8	1.08	12.1	0.34	3.8	0.30	3.4	0.92	10.3
CED08	5.4	0.09	1.6	0.26	4.8	0.44	8.1	0.31	5.7	0.66	12.1	0.51	9.4	0.29	5.3	0.13	2.3	0.62	11.5
CED09	11.8	0.15	1.3	0.29	2.4	0.47	4.0	0.35	3.0	1.16	9.9	0.50	4.3	0.31	2.6	0.18	1.6	1.14	9.7
CED12	63.4																		
CED13	1.5																		
CED14	0.9																		
ORT01	4.0	0.16	4.1	0.29	7.2	0.52	13.1	0.14	3.6	0.41	10.2	0.61	15.1	0.28	7.1	0.22	5.4	0.24	6.1
ORT02	2.0	0.12	5.8	0.10	5.1	0.49	24.8	0.07	3.5	0.13	6.6	0.45	22.8	0.30	14.9	0.10	5.0	0.11	5.8
ORT03	1.9	0.13	6.8	0.04	2.3	0.46	24.6	0.04	1.9	0.09	4.9	0.05	2.9	0.26	14.1	0.03	1.6	0.13	6.8
ORT04	2.4	0.13	5.4	0.13	5.5	0.49	20.3	0.09	3.8	0.18	7.6	0.56	23.2	0.31	12.9	0.10	4.3	0.14	5.8
ORT05	2.6	0.13	5.1	0.15	5.9	0.48	18.5	0.13	4.9	0.32	12.2	0.47	18.0	0.28	10.7	0.12	4.7	0.24	9.0
ORT06	2.8	0.13	4.8	0.18	6.4	0.52	18.8	0.10	3.7	0.23	8.3	0.34	12.4	0.28	10.0	0.13	4.6	0.18	6.4
ORT07	5.5	0.22	4.0	0.33	5.9	0.67	12.2	0.37	6.6	0.70	12.7	0.98	17.7	0.43	7.8	0.29	5.3	0.50	9.0
ORT08	3.6	0.17	4.7	0.22	6.1	0.59	16.6	0.17	4.7	0.37	10.3	0.55	15.6	0.34	9.6	0.24	6.8	0.37	10.5
ORT09	4.9	0.19	3.9	0.34	7.0	0.53	10.8	0.19	3.9	0.49	10.1	0.97	19.9	0.28	5.8	0.25	5.0	0.51	10.4
ORT10	4.8	0.20	4.1	0.27	5.7	0.54	11.2	0.25	5.2	0.55	11.4	1.00	20.8	0.30	6.3	0.25	5.3	0.41	8.6
ORT11	3.7	0.21	5.6	0.21	5.6	0.57	15.4	0.17	4.7	0.43	11.6	0.46	12.5	0.33	8.9	0.17	4.7	0.48	12.9
ORT12	4.3	0.20	4.7	0.18	4.2	0.56	13.0	0.30	7.0	0.49	11.4	0.54	12.6	0.33	7.6	0.17	4.0	0.34	7.9
ORT13	4.5	0.20	4.5	0.27	5.9	0.60	13.3	0.26	5.7	0.65	14.4	0.60	13.4	0.35	7.8	0.21	4.8	0.54	12.0
ORT14	1.7	0.10	5.7	0.08	4.8	0.46	27.0	0.07	4.3	0.14	8.0	0.15	8.9	0.28	16.4	0.08	4.6	0.10	6.0
ORT15	6.0	0.31	5.1	0.25	4.2	0.62	10.2	0.68	11.2	0.58	9.6	0.71	11.7	0.38	6.3	0.31	5.2	0.69	11.4

ORT16	3.6	0.12	3.5	0.17	4.7	0.54	15.1	0.21	5.9	0.38	10.7	0.57	16.0	0.33	9.1	0.16	4.3	0.28	7.7
ORT18	3.5	0.11	3.3	0.18	5.3	0.45	13.0	0.19	5.6	0.44	12.7	0.51	14.6	0.29	8.4	0.14	3.9	0.31	8.8
ORT19	5.0	0.09	1.7	0.06	1.2	0.14	2.8	0.62	12.4	0.41	8.1	1.98	39.6	0.09	1.8	0.07	1.4	0.29	5.9
ORT20	1.5	0.10	6.5	0.06	3.8	0.37	24.1	0.08	5.4	0.14	9.2	0.10	6.4	0.25	16.3	0.05	3.3	0.10	6.6
ORT21	4.1	0.14	3.4	0.17	4.2	0.51	12.4	0.20	4.9	0.54	13.1	0.78	18.8	0.29	6.9	0.19	4.6	0.30	7.2
ORT22	6.5	0.20	3.0	0.26	3.9	0.49	7.5	0.54	8.3	0.61	9.5	1.58	24.3	0.31	4.8	0.20	3.0	0.80	12.3
ORT23	5.2	0.14	2.7	0.12	2.2	0.51	9.8	0.18	3.4	0.40	7.7	0.66	12.7	0.28	5.4	0.13	2.5	0.41	7.9
ORT24	5.6	0.20	3.6	0.20	3.6	0.60	10.8	0.34	6.1	0.70	12.5	0.83	15.0	0.35	6.2	0.23	4.1	0.51	9.1
ORT25	9.1	0.21	2.3	0.35	3.8	0.73	8.0	0.57	6.3	1.04	11.5	0.70	7.8	0.41	4.6	0.32	3.5	1.13	12.5
ORT26	6.3	0.16	2.6	0.32	5.0	0.64	10.1	0.39	6.2	0.84	13.2	0.90	14.2	0.37	5.9	0.26	4.1	0.55	8.7
ORT27	7.8	0.19	2.4	0.35	4.5	0.64	8.3	0.48	6.1	1.04	13.3	1.03	13.2	0.38	4.9	0.38	4.8	1.28	16.4
ORT28	5.6	0.23	4.1	0.23	4.2	0.52	9.4	0.34	6.2	0.60	10.8	0.61	11.0	0.32	5.7	0.19	3.4	0.71	12.8
ORT29	3.3	0.06	1.9	0.22	6.7	0.50	15.1	0.19	5.6	0.45	13.4	0.70	20.9	0.33	9.8	0.17	5.1	0.27	8.2
ORT30	0.8	0.04	4.9	0.03	3.3	0.17	19.7	0.03	3.9	0.08	9.3	0.10	11.2	0.09	10.4	0.03	3.4	0.16	19.4
ORT31	12.5	0.15	1.2	0.33	2.6	0.51	4.1	0.28	2.3	1.90	15.2	0.85	6.8	0.29	2.4	0.64	5.1	0.60	4.8
ORT32	6.4	0.20	3.1	0.24	3.8	0.58	9.0	0.28	4.4	0.77	12.0	0.52	8.1	0.32	5.0	0.34	5.2	0.41	6.4
ORT33	7.5	0.05	0.7	0.11	1.5	0.15	2.0	0.15	1.9	0.68	9.0	0.08	1.1	0.10	1.4	0.07	0.9	0.47	6.3
ORT34	4.0	0.10	2.5	0.21	5.4	0.48	12.2	0.22	5.6	0.52	13.0	0.55	14.0	0.31	7.9	0.15	3.8	0.39	9.9
ORT35	3.5	0.15	4.4	0.10	2.7	0.44	12.5	0.19	5.4	0.42	11.9	0.55	15.7	0.25	7.2	0.10	2.9	0.31	8.7
ORT36	4.0	0.16	3.9	0.20	5.1	0.51	12.8	0.22	5.4	0.50	12.5	0.52	12.8	0.30	7.6	0.15	3.7	0.32	8.0
ORT37	6.2	0.16	2.5	0.26	4.1	0.57	9.2	0.32	5.2	0.79	12.6	0.87	13.9	0.34	5.4	0.18	2.8	0.54	8.7
ORT38	4.8	0.24	4.9	0.34	7.1	0.55	11.3	0.20	4.0	0.56	11.5	1.30	26.9	0.32	6.5	0.21	4.4	0.34	6.9
ORT39	5.0	0.13	2.5	0.27	5.4	0.59	11.7	0.18	3.6	0.52	10.3	1.06	21.1	0.36	7.2	0.20	4.0	0.40	8.0
ORT40	5.3	0.14	2.7	0.29	5.5	0.51	9.7	0.28	5.3	0.77	14.5	0.68	12.9	0.33	6.3	0.19	3.6	0.60	11.3
ORT41	2.6	0.09	3.5	0.13	5.0	0.36	13.9	0.13	5.0	0.22	8.6	0.69	26.4	0.27	10.3	0.09	3.4	0.17	6.7
Total # Sites		49		49		49		49		49		49		49		49		49	
# Sites with HQs >1		0		0		0		0		10		6		0		2		7	
# Sites with HQs >10		0		0		0		0		0		0		0		0		0	
% Sites with HQs >1		0		0		0		0		20.4		12.2		0		4.1		14.3	
% Sites with HQs >10		0		0		0		0		0		0		0		0		0	
Contaminants average % contribution to HI			3.4		4.4		11.6		4.9		11.1		13.7		7.0		3.8		9.4

[a] The Hazard Index (HI) is the sum of all the organic contaminant (Appendix R-2a) and metal contaminant (Appendix R-2b) HQ values.

Appendix R-3 (a). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Marine/Coastal ERL. Organic Contaminants.

Site	Total HI [a] (based on ERL)	Organic Contaminants															
		PAH		PCB		DDT		Chlordane		Lindane		Dieldrin		Endrin		Heptachlor epoxide	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	553	1.37	0.2	439	79.5	55.6	10.1	14.42	2.6								
CED02	607	3.09	0.5	506	83.3	19.8	3.3	40.42	6.7								
CED03	171	2.59	1.5	102	59.7	11.8	6.9	34.78	20.4								
CED04	220	3.97	1.8	134	60.8	12.8	5.8	41.44	18.8								
CED05	59.7	0.55	0.9	28.3	47.5	5.70	9.5	18.90	31.7								
CED06	151	3.41	2.3	49.5	32.8	14.8	9.8	67.06	44.5								
CED07	118	2.07	1.7	56.0	47.3	7.69	6.5	32.52	27.5								
CED08	80.1	1.89	2.4	14.5	18.1	8.28	10.3	43.60	54.4								
CED09	238	7.40	3.1	36.0	15.1	22.8	9.6	157	65.7								
CED12	1890			1890													
CED13	43.8			43.8													
CED14	25.6			25.6													
ORT01	27.3	0.65	2.4	7.72	28.3	6.69	24.5	1.44	5.3								
ORT02	9.6	0.24	2.5	1.31	13.6	1.17	12.2	0.04	0.4								
ORT03	10.9	0.22	2.0	6.74	61.8	0.73	6.7	0.00	0.0								
ORT04	16.1	0.54	3.4	1.93	12.0	3.49	21.7	1.94	12.0								
ORT05	19.3	0.81	4.2	3.90	20.2	6.19	32.1	0.00	0.0								
ORT06	22.1	0.53	2.4	7.34	33.2	4.77	21.6	2.30	10.4								
ORT07	69.4	1.31	1.9	6.01	8.7	29.0	41.7	15.9	22.8								
ORT08	31.3	0.54	1.7	8.67	27.7	7.04	22.5	4.14	13.2								
ORT09	38.7	0.98	2.5	5.22	13.5	9.99	25.8	7.36	19.0								
ORT10	37.3	1.00	2.7	7.78	20.8	5.99	16.1	7.34	19.7								
ORT11	32.2	0.73	2.3	8.57	26.6	6.95	21.6	5.36	16.7								
ORT12	47.3	1.39	2.9	14.8	31.3	10.0	21.2	9.86	20.8								
ORT13	45.4	1.31	2.9	7.34	16.2	13.2	29.0	10.4	23.0								
ORT14	9.6	0.47	4.9	1.44	15.1	2.87	30.0	0.38	4.0								
ORT15	70.4	1.76	2.5	13.6	19.3	14.5	20.6	23.7	33.7								

ORT16	32.9	1.11	3.4	4.69	14.3	10.0	30.4	6.94	21.1								
ORT18	29.2	1.20	4.1	5.04	17.3	5.10	17.5	8.26	28.3								
ORT19	56.0	2.03	3.6	21.5	38.3	7.38	13.2	5.22	9.3								
ORT20	9.1	0.44	4.9	1.98	21.9	1.85	20.4	1.08	11.9								
ORT21	38.5	0.97	2.5	8.05	20.9	8.63	22.4	8.68	22.6								
ORT22	67.4	1.36	2.0	19.8	29.3	8.84	13.1	15.8	23.4								
ORT23	47.7	0.99	2.1	14.2	29.8	9.37	19.7	12.4	26.1								
ORT24	62.2	1.43	2.3	8.18	13.2	17.1	27.5	20.5	33.0								
ORT25	122	3.06	2.5	19.4	15.9	15.9	13.0	64.5	52.8								
ORT26	72.3	1.70	2.3	14.8	20.4	13.7	18.9	25.5	35.3								
ORT27	85.3	2.08	2.4	23.1	27.1	10.9	12.8	27.7	32.5								
ORT28	60.5	1.25	2.1	7.69	12.7	12.6	20.9	25.2	41.6								
ORT29	22.7	0.18	0.8	5.44	24.0	1.44	6.4	4.56	20.1								
ORT30	3.5	0.14	4.0	0.40	11.4	0.59	16.9	0.00	0.0								
ORT31	248	2.77	1.1	13.5	5.5	22.3	9.0	190	76.4								
ORT32	99.7	1.57	1.6	11.3	11.3	17.4	17.4	56.6	56.8								
ORT33	201	3.79	1.9	7.88	3.9	32.6	16.2	150	75.0								
ORT34	39.9	1.04	2.6	11.4	28.5	8.17	20.5	8.58	21.5								
ORT35	33.7	0.97	2.9	5.01	14.9	7.43	22.0	11.0	32.5								
ORT36	43.6	1.00	2.3	5.06	11.6	12.2	27.9	15.0	34.4								
ORT37	78.1	1.66	2.1	19.1	24.4	10.9	14.0	31.2	39.9								
ORT38	58.2	1.28	2.2	5.13	8.8	23.8	40.9	10.7	18.5								
ORT39	57.5	1.04	1.8	14.3	24.8	15.8	27.5	11.5	20.0								
ORT40	44.2	1.21	2.7	8.40	19.0	4.70	10.6	15.9	35.9								
ORT41	22.0	0.50	2.3	3.38	15.4	6.19	28.1	3.00	13.6								
Total # Sites		49		52		49		49									
# Sites with HQs >1		29		51		47		44									
# Sites with HQs >10		0		25		23		28									
% Sites with HQs >1		59.2		98.1		95.9		89.8									
% Sites with HQs >10		0.0		48.1		46.9		57.1									
Contaminants average % contribution to HI			2.3		25.7		17.4		24.1								

[a] The Hazard Index (Total HI) is the sum of all the organic contaminant (Appendix R-3a) and metal contaminant (Appendix R-3b) HQ values.

Appendix R-3 (b). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Marine/Coastal ERL. Metal Contaminants.

Site	Total HI[a] (based on ERL)	Metal Contaminants																	
		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	553	2.99	0.5	3.19	0.6	1.19	0.2	2.44	0.4	5.74	1.0	6.14	1.1	1.09	0.2	5.39	1.0	13.67	2.5
CED02	607	1.84	0.3	3.03	0.5	1.16	0.2	3.06	0.5	8.22	1.4	6.12	1.0	1.14	0.2	4.04	0.7	9.53	1.6
CED03	171	0.76	0.4	1.73	1.0	0.65	0.4	1.93	1.1	3.77	2.2	4.92	2.9	0.79	0.5	1.06	0.6	4.05	2.4
CED04	220	1.05	0.5	2.53	1.1	1.00	0.5	2.59	1.2	6.75	3.1	6.35	2.9	1.08	0.5	1.37	0.6	5.31	2.4
CED05	59.7	0.21	0.4	0.47	0.8	0.28	0.5	0.40	0.7	1.26	2.1	1.96	3.3	0.35	0.6	0.26	0.4	1.01	1.7
CED06	151	0.67	0.4	1.11	0.7	0.71	0.5	1.59	1.1	3.08	2.0	4.25	2.8	0.72	0.5	0.87	0.6	2.99	2.0
CED07	118	0.63	0.5	1.38	1.2	0.82	0.7	1.67	1.4	3.36	2.8	7.60	6.4	0.79	0.7	1.11	0.9	2.82	2.4
CED08	80.1	0.35	0.4	1.08	1.3	0.60	0.8	1.35	1.7	1.80	2.2	3.59	4.5	0.67	0.8	0.47	0.6	1.91	2.4
CED09	238	0.61	0.3	1.19	0.5	0.64	0.3	1.54	0.6	3.19	1.3	3.53	1.5	0.72	0.3	0.68	0.3	3.49	1.5
CED12	1890		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
CED13	43.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
CED14	25.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
ORT01	27.3	0.65	2.4	1.19	4.4	0.72	2.6	0.63	2.3	1.11	4.1	4.28	15.7	0.66	2.4	0.80	2.9	0.75	2.7
ORT02	9.6	0.46	4.8	0.42	4.4	0.68	7.0	0.31	3.2	0.36	3.7	3.21	33.5	0.69	7.2	0.37	3.8	0.35	3.7
ORT03	10.9	0.51	4.7	0.18	1.6	0.63	5.8	0.16	1.4	0.25	2.3	0.38	3.5	0.61	5.6	0.11	1.0	0.39	3.6
ORT04	16.1	0.53	3.3	0.55	3.4	0.67	4.2	0.41	2.5	0.50	3.1	3.99	24.7	0.73	4.5	0.39	2.4	0.43	2.7
ORT05	19.3	0.53	2.8	0.64	3.3	0.66	3.4	0.56	2.9	0.87	4.5	3.33	17.2	0.65	3.4	0.46	2.4	0.72	3.7
ORT06	22.1	0.54	2.4	0.74	3.3	0.71	3.2	0.45	2.0	0.63	2.8	2.43	11.0	0.65	2.9	0.48	2.2	0.54	2.4
ORT07	69.4	0.90	1.3	1.36	2.0	0.92	1.3	1.61	2.3	1.93	2.8	6.93	10.0	1.00	1.4	1.08	1.6	1.53	2.2
ORT08	31.3	0.67	2.1	0.90	2.9	0.81	2.6	0.73	2.3	1.01	3.2	3.92	12.5	0.80	2.6	0.90	2.9	1.15	3.7
ORT09	38.7	0.78	2.0	1.42	3.7	0.72	1.9	0.84	2.2	1.35	3.5	6.87	17.8	0.66	1.7	0.91	2.4	1.56	4.0
ORT10	37.3	0.79	2.1	1.13	3.0	0.73	2.0	1.09	2.9	1.49	4.0	7.07	18.9	0.71	1.9	0.94	2.5	1.26	3.4
ORT11	32.2	0.83	2.6	0.87	2.7	0.78	2.4	0.76	2.4	1.18	3.7	3.28	10.2	0.77	2.4	0.65	2.0	1.46	4.5
ORT12	47.3	0.80	1.7	0.76	1.6	0.77	1.6	1.31	2.8	1.34	2.8	3.81	8.0	0.76	1.6	0.63	1.3	1.03	2.2
ORT13	45.4	0.81	1.8	1.10	2.4	0.82	1.8	1.12	2.5	1.77	3.9	4.25	9.4	0.82	1.8	0.79	1.7	1.65	3.6
ORT14	9.6	0.39	4.1	0.34	3.6	0.64	6.6	0.32	3.4	0.37	3.9	1.07	11.2	0.66	6.9	0.29	3.0	0.32	3.3
ORT15	70.4	1.24	1.8	1.04	1.5	0.85	1.2	2.97	4.2	1.59	2.3	5.01	7.1	0.89	1.3	1.16	1.6	2.10	3.0

ORT16	32.9	0.50	1.5	0.70	2.1	0.74	2.3	0.93	2.8	1.05	3.2	4.05	12.3	0.76	2.3	0.57	1.7	0.85	2.6
ORT18	29.2	0.45	1.6	0.76	2.6	0.62	2.1	0.85	2.9	1.21	4.1	3.57	12.2	0.67	2.3	0.50	1.7	0.93	3.2
ORT19	56.0	0.35	0.6	0.25	0.4	0.19	0.3	2.70	4.8	1.11	2.0	13.97	24.9	0.21	0.4	0.27	0.5	0.89	1.6
ORT20	9.1	0.41	4.5	0.24	2.7	0.51	5.6	0.37	4.1	0.39	4.3	0.70	7.7	0.59	6.5	0.19	2.1	0.31	3.5
ORT21	38.5	0.56	1.5	0.71	1.9	0.70	1.8	0.89	2.3	1.49	3.9	5.48	14.3	0.67	1.7	0.70	1.8	0.91	2.4
ORT22	67.4	0.79	1.2	1.06	1.6	0.67	1.0	2.38	3.5	1.69	2.5	11.18	16.6	0.73	1.1	0.73	1.1	2.44	3.6
ORT23	47.7	0.56	1.2	0.48	1.0	0.70	1.5	0.77	1.6	1.10	2.3	4.65	9.8	0.66	1.4	0.47	1.0	1.26	2.6
ORT24	62.2	0.81	1.3	0.84	1.4	0.82	1.3	1.48	2.4	1.91	3.1	5.90	9.5	0.80	1.3	0.85	1.4	1.55	2.5
ORT25	122	0.85	0.7	1.44	1.2	1.00	0.8	2.51	2.1	2.85	2.3	4.97	4.1	0.96	0.8	1.18	1.0	3.47	2.8
ORT26	72.3	0.66	0.9	1.31	1.8	0.87	1.2	1.73	2.4	2.29	3.2	6.35	8.8	0.86	1.2	0.95	1.3	1.67	2.3
ORT27	85.3	0.75	0.9	1.45	1.7	0.88	1.0	2.10	2.5	2.85	3.3	7.27	8.5	0.89	1.0	1.39	1.6	3.91	4.6
ORT28	60.5	0.92	1.5	0.98	1.6	0.72	1.2	1.51	2.5	1.65	2.7	4.33	7.2	0.74	1.2	0.71	1.2	2.18	3.6
ORT29	22.7	0.25	1.1	0.93	4.1	0.69	3.0	0.82	3.6	1.23	5.4	4.91	21.7	0.76	3.4	0.63	2.8	0.83	3.7
ORT30	3.5	0.17	4.8	0.12	3.3	0.23	6.6	0.14	4.1	0.22	6.2	0.67	19.3	0.21	5.9	0.11	3.1	0.50	14.4
ORT31	248	0.62	0.2	1.38	0.6	0.70	0.3	1.24	0.5	5.20	2.1	5.97	2.4	0.68	0.3	2.36	1.0	1.83	0.7
ORT32	99.7	0.80	0.8	1.01	1.0	0.79	0.8	1.25	1.3	2.10	2.1	3.67	3.7	0.75	0.8	1.24	1.2	1.25	1.3
ORT33	201	0.22	0.1	0.48	0.2	0.21	0.1	0.64	0.3	1.85	0.9	0.59	0.3	0.24	0.1	0.25	0.1	1.45	0.7
ORT34	39.9	0.40	1.0	0.88	2.2	0.66	1.7	0.97	2.4	1.42	3.6	3.91	9.8	0.73	1.8	0.55	1.4	1.21	3.0
ORT35	33.7	0.62	1.8	0.40	1.2	0.60	1.8	0.83	2.5	1.14	3.4	3.88	11.5	0.59	1.7	0.38	1.1	0.93	2.8
ORT36	43.6	0.62	1.4	0.85	2.0	0.70	1.6	0.94	2.2	1.37	3.2	3.65	8.4	0.71	1.6	0.55	1.3	0.99	2.3
ORT37	78.1	0.63	0.8	1.06	1.4	0.78	1.0	1.42	1.8	2.16	2.8	6.11	7.8	0.78	1.0	0.65	0.8	1.65	2.1
ORT38	58.2	0.96	1.7	1.43	2.4	0.75	1.3	0.86	1.5	1.53	2.6	9.20	15.8	0.74	1.3	0.79	1.4	1.03	1.8
ORT39	57.5	0.50	0.9	1.13	2.0	0.80	1.4	0.79	1.4	1.42	2.5	7.47	13.0	0.84	1.5	0.75	1.3	1.22	2.1
ORT40	44.2	0.58	1.3	1.22	2.8	0.70	1.6	1.23	2.8	2.11	4.8	4.83	10.9	0.78	1.8	0.71	1.6	1.84	4.2
ORT41	22.0	0.37	1.7	0.54	2.5	0.49	2.2	0.56	2.6	0.61	2.8	4.85	22.1	0.62	2.8	0.33	1.5	0.54	2.4
Total # Sites		49		49		49		49		49		49		49		49		49	
# Sites with HQs >1		4		24		2		24		40		45		3		11		32	
# Sites with HQs >10		0		0		0		0		0		2		0		0		1	
% Sites with HQs >1		8.2		49.0		4.1		49.0		81.6		91.8		6.1		22.4		65.3	
% Sites with HQs >10		0.0		0.0		0.0		0.0		0.0		4.1		0.0		0.0		2.0	
Contaminants average % contribution to HI			1.5		1.9		1.8		2.1		2.8		10.0		1.9		1.4		2.8

[a] The Hazard Index (HI) is the sum of all the organic contaminant (Appendix R-3a) and metal contaminant (Appendix R-3b) HQ values.

Appendix R-4 (a). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Marine/Coastal ERM. Organic Contaminants.

Site	Total HI [a] (based on ERM)	Organic Contaminants															
		PAH		PCB		DDT		Chlordane		Lindane		Dieldrin		Endrin		Heptachlor epoxide	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	72.3	0.12	0.2	55.42	76.7	1.90	2.6	4.09	5.7								
CED02	79.2	0.28	0.4	63.79	80.5	0.68	0.9	5.14	6.5								
CED03	22.3	0.23	1.0	12.87	57.7	0.41	1.8	4.16	18.7								
CED04	29.2	0.36	1.2	16.87	57.8	0.44	1.5	5.02	17.2								
CED05	7.2	0.05	0.7	3.57	49.5	0.20	2.7	1.94	26.9								
CED06	17.7	0.31	1.7	6.24	35.2	0.51	2.9	6.89	39.0								
CED07	15.6	0.19	1.2	7.06	45.3	0.26	1.7	3.44	22.1								
CED08	9.5	0.17	1.8	1.83	19.3	0.28	3.0	4.48	47.3								
CED09	25.6	0.66	2.6	4.54	17.7	0.78	3.1	15.93	62.1								
CED12	238			238													
CED13	5.5			5.52													
CED14	3.2			3.23													
ORT01	3.8	0.06	1.5	0.97	25.4	0.23	6.0	0.21	5.4								
ORT02	1.8	0.02	1.2	0.16	9.2	0.04	2.2	0.00	0.0								
ORT03	1.7	0.02	1.2	0.85	50.4	0.03	1.5	0.00	0.0								
ORT04	2.4	0.05	2.0	0.24	10.1	0.12	5.0	0.16	6.7								
ORT05	2.7	0.07	2.6	0.49	18.0	0.21	7.7	0.07	2.4								
ORT06	2.8	0.05	1.7	0.93	32.5	0.16	5.7	0.11	3.9								
ORT07	7.6	0.12	1.6	0.76	10.0	0.99	13.1	1.91	25.2								
ORT08	4.3	0.05	1.1	1.09	25.2	0.24	5.6	0.46	10.6								
ORT09	5.2	0.09	1.7	0.66	12.7	0.34	6.6	0.72	14.0								
ORT10	5.4	0.09	1.7	0.98	18.3	0.21	3.8	0.73	13.6								
ORT11	4.4	0.07	1.5	1.08	24.5	0.24	5.4	0.58	13.2								
ORT12	5.9	0.13	2.1	1.87	31.5	0.34	5.8	1.14	19.1								
ORT13	5.7	0.12	2.1	0.93	16.4	0.45	8.0	1.18	20.8								
ORT14	1.4	0.04	3.1	0.18	13.4	0.10	7.3	0.00	0.0								
ORT15	8.5	0.16	1.8	1.71	20.0	0.50	5.8	2.51	29.3								

ORT16	4.0	0.10	2.5	0.59	14.6	0.34	8.5	0.74	18.2								
ORT18	3.8	0.11	2.8	0.64	16.8	0.17	4.6	0.72	19.0								
ORT19	7.9	0.18	2.3	2.71	34.5	0.25	3.2	0.58	7.4								
ORT20	1.3	0.04	3.0	0.25	18.9	0.06	4.8	0.10	7.3								
ORT21	5.0	0.09	1.8	1.02	20.5	0.30	6.0	0.87	17.5								
ORT22	9.4	0.12	1.3	2.49	26.4	0.30	3.2	1.73	18.4								
ORT23	5.9	0.09	1.5	1.79	30.4	0.32	5.5	1.24	21.0								
ORT24	7.3	0.13	1.8	1.03	14.2	0.58	8.0	2.18	30.0								
ORT25	14.2	0.27	1.9	2.45	17.3	0.54	3.8	6.43	45.5								
ORT26	9.0	0.15	1.7	1.86	20.7	0.47	5.2	2.79	31.1								
ORT27	11.5	0.19	1.6	2.91	25.4	0.37	3.3	2.95	25.7								
ORT28	6.8	0.11	1.6	0.97	14.3	0.43	6.4	2.15	31.6								
ORT29	3.6	0.02	0.5	0.69	19.0	0.05	1.4	0.38	10.6								
ORT30	0.7	0.01	1.9	0.05	7.5	0.02	3.0	0.00	0.0								
ORT31	24.1	0.25	1.0	1.71	7.1	0.76	3.2	16.82	69.9								
ORT32	10.5	0.14	1.3	1.43	13.6	0.59	5.7	5.48	52.1								
ORT33	18.0	0.34	1.9	0.99	5.5	1.12	6.2	14.08	78.4								
ORT34	5.2	0.09	1.8	1.43	27.6	0.28	5.4	0.95	18.3								
ORT35	4.2	0.09	2.1	0.63	15.1	0.25	6.1	1.12	26.7								
ORT36	5.0	0.09	1.8	0.64	12.7	0.42	8.3	1.55	30.9								
ORT37	9.7	0.15	1.5	2.40	24.8	0.37	3.9	3.33	34.5								
ORT38	6.6	0.11	1.8	0.65	9.8	0.82	12.4	1.27	19.3								
ORT39	7.1	0.09	1.3	1.80	25.4	0.54	7.7	1.30	18.3								
ORT40	6.1	0.11	1.8	1.06	17.5	0.16	2.7	1.54	25.5								
ORT41	3.0	0.05	1.5	0.43	14.2	0.21	7.0	0.35	11.5								
Total # Sites		49		52		49		49									
# Sites with HQs >1		0		30		2		29									
# Sites with HQs >10		0		5		0		3									
% Sites with HQs >1		0.0		57.7		4.1		59.2									
% Sites with HQs >10		0.0		9.6		0.0		6.1									
Contaminants average % contribution to HI			1.7		29.1		5.0		22.0								

[a] The Hazard Index (Total HI) is the sum of all the organic contaminant (Appendix R-4a) and metal contaminant (Appendix R-4b) HQ values.

Appendix R-4 (b). Estimated Hazard Quotients (HQ) for Selected Contaminants at the Cedar-Ortega River Basin Sites. HQs are Based on the Ratio of the Surface Sediment Concentration and the Marine/Coastal ERM. Metal Contaminants.

Site	Total HI[a] (based on ERM)	Metal Contaminants																	
		Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
		HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI	HQ	% of HI
CED01	72.3	0.35	0.5	0.40	0.6	0.26	0.4	0.31	0.4	1.23	1.7	1.30	1.8	0.44	0.6	1.46	2.0	5.00	6.9
CED02	79.2	0.22	0.3	0.38	0.5	0.25	0.3	0.39	0.5	1.76	2.2	1.29	1.6	0.46	0.6	1.09	1.4	3.49	4.4
CED03	22.3	0.09	0.4	0.22	1.0	0.14	0.6	0.24	1.1	0.81	3.6	1.04	4.7	0.32	1.4	0.29	1.3	1.48	6.7
CED04	29.2	0.12	0.4	0.32	1.1	0.22	0.7	0.33	1.1	1.44	4.9	1.34	4.6	0.44	1.5	0.37	1.3	1.94	6.6
CED05	7.2	0.02	0.3	0.06	0.8	0.06	0.8	0.05	0.7	0.27	3.7	0.41	5.7	0.14	2.0	0.07	1.0	0.37	5.1
CED06	17.7	0.08	0.4	0.14	0.8	0.16	0.9	0.20	1.1	0.66	3.7	0.90	5.1	0.29	1.7	0.23	1.3	1.10	6.2
CED07	15.6	0.07	0.5	0.17	1.1	0.18	1.2	0.21	1.4	0.72	4.6	1.61	10.3	0.32	2.1	0.30	1.9	1.03	6.6
CED08	9.5	0.04	0.4	0.13	1.4	0.13	1.4	0.17	1.8	0.39	4.1	0.76	8.0	0.27	2.9	0.13	1.3	0.70	7.4
CED09	25.6	0.07	0.3	0.15	0.6	0.14	0.5	0.19	0.8	0.68	2.7	0.75	2.9	0.29	1.1	0.18	0.7	1.28	5.0
CED12	238																		
CED13	5.5																		
CED14	3.2																		
ORT01	3.8	0.08	2.0	0.15	3.9	0.16	4.1	0.08	2.1	0.24	6.2	0.90	23.6	0.27	7.0	0.22	5.6	0.27	7.1
ORT02	1.8	0.05	3.1	0.05	2.9	0.15	8.3	0.04	2.2	0.08	4.3	0.68	38.1	0.28	15.7	0.10	5.6	0.13	7.2
ORT03	1.7	0.06	3.5	0.02	1.3	0.14	8.1	0.02	1.2	0.05	3.2	0.08	4.8	0.25	14.6	0.03	1.7	0.14	8.4
ORT04	2.4	0.06	2.6	0.07	2.9	0.15	6.1	0.05	2.1	0.11	4.5	0.84	34.9	0.29	12.2	0.10	4.3	0.16	6.6
ORT05	2.7	0.06	2.3	0.08	2.9	0.14	5.3	0.07	2.6	0.19	6.8	0.70	25.7	0.26	9.6	0.12	4.5	0.26	9.6
ORT06	2.8	0.06	2.2	0.09	3.2	0.16	5.5	0.06	2.0	0.13	4.7	0.51	18.0	0.26	9.2	0.13	4.5	0.20	6.9
ORT07	7.6	0.11	1.4	0.17	2.2	0.20	2.7	0.20	2.7	0.41	5.4	1.46	19.3	0.41	5.3	0.29	3.8	0.56	7.4
ORT08	4.3	0.08	1.8	0.11	2.6	0.18	4.1	0.09	2.1	0.22	5.0	0.83	19.1	0.32	7.5	0.24	5.6	0.42	9.7
ORT09	5.2	0.09	1.8	0.18	3.4	0.16	3.1	0.11	2.0	0.29	5.6	1.45	28.1	0.27	5.2	0.25	4.8	0.57	11.0
ORT10	5.4	0.09	1.7	0.14	2.6	0.16	3.0	0.14	2.6	0.32	6.0	1.49	27.9	0.29	5.4	0.25	4.8	0.46	8.6
ORT11	4.4	0.10	2.2	0.11	2.5	0.17	3.9	0.10	2.2	0.25	5.7	0.69	15.7	0.31	7.0	0.17	4.0	0.53	12.1
ORT12	5.9	0.09	1.6	0.09	1.6	0.17	2.8	0.17	2.8	0.29	4.8	0.80	13.5	0.31	5.2	0.17	2.9	0.38	6.4
ORT13	5.7	0.10	1.7	0.14	2.4	0.18	3.2	0.14	2.5	0.38	6.7	0.90	15.9	0.33	5.9	0.21	3.8	0.60	10.7
ORT14	1.4	0.05	3.4	0.04	3.2	0.14	10.3	0.04	3.0	0.08	5.9	0.23	16.7	0.27	19.6	0.08	5.8	0.12	8.6
ORT15	8.5	0.15	1.7	0.13	1.5	0.19	2.2	0.37	4.4	0.34	4.0	1.06	12.4	0.36	4.2	0.31	3.7	0.77	9.0

ORT16	4.0	0.06	1.4	0.09	2.2	0.16	4.0	0.12	2.9	0.23	5.6	0.85	21.1	0.31	7.6	0.16	3.8	0.31	7.7
ORT18	3.8	0.05	1.4	0.09	2.5	0.14	3.6	0.11	2.8	0.26	6.8	0.75	19.9	0.27	7.2	0.14	3.6	0.34	9.0
ORT19	7.9	0.04	0.5	0.03	0.4	0.04	0.5	0.34	4.3	0.24	3.0	2.95	37.6	0.09	1.1	0.07	0.9	0.33	4.2
ORT20	1.3	0.05	3.6	0.03	2.3	0.11	8.5	0.05	3.5	0.08	6.3	0.15	11.2	0.24	18.0	0.05	3.9	0.11	8.7
ORT21	5.0	0.07	1.3	0.09	1.8	0.15	3.1	0.11	2.3	0.32	6.4	1.16	23.4	0.27	5.4	0.19	3.8	0.33	6.7
ORT22	9.4	0.09	1.0	0.13	1.4	0.15	1.6	0.30	3.2	0.36	3.8	2.36	25.1	0.30	3.1	0.20	2.1	0.89	9.5
ORT23	5.9	0.07	1.1	0.06	1.0	0.15	2.6	0.10	1.7	0.24	4.0	0.98	16.7	0.27	4.5	0.13	2.2	0.46	7.8
ORT24	7.3	0.09	1.3	0.11	1.4	0.18	2.5	0.19	2.6	0.41	5.6	1.25	17.1	0.33	4.5	0.23	3.2	0.57	7.8
ORT25	14.2	0.10	0.7	0.18	1.3	0.22	1.5	0.32	2.2	0.61	4.3	1.05	7.4	0.39	2.8	0.32	2.3	1.27	9.0
ORT26	9.0	0.08	0.9	0.16	1.8	0.19	2.1	0.22	2.4	0.49	5.5	1.34	15.0	0.35	3.9	0.26	2.9	0.61	6.8
ORT27	11.5	0.09	0.8	0.18	1.6	0.19	1.7	0.26	2.3	0.61	5.3	1.54	13.4	0.36	3.2	0.38	3.3	1.43	12.5
ORT28	6.8	0.11	1.6	0.12	1.8	0.16	2.3	0.19	2.8	0.35	5.2	0.92	13.5	0.30	4.4	0.19	2.8	0.80	11.7
ORT29	3.6	0.03	0.8	0.12	3.2	0.15	4.2	0.10	2.8	0.26	7.3	1.04	28.7	0.31	8.5	0.17	4.7	0.30	8.4
ORT30	0.7	0.02	2.9	0.01	2.2	0.05	7.5	0.02	2.7	0.05	6.9	0.14	21.2	0.08	12.4	0.03	4.3	0.18	27.5
ORT31	24.1	0.07	0.3	0.17	0.7	0.15	0.6	0.16	0.6	1.11	4.6	1.26	5.2	0.28	1.2	0.64	2.7	0.67	2.8
ORT32	10.5	0.09	0.9	0.13	1.2	0.17	1.6	0.16	1.5	0.45	4.3	0.78	7.4	0.30	2.9	0.34	3.2	0.46	4.3
ORT33	18.0	0.03	0.1	0.06	0.3	0.05	0.3	0.08	0.4	0.40	2.2	0.13	0.7	0.10	0.6	0.07	0.4	0.53	2.9
ORT34	5.2	0.05	0.9	0.11	2.1	0.15	2.8	0.12	2.4	0.30	5.8	0.83	15.9	0.29	5.7	0.15	2.9	0.44	8.5
ORT35	4.2	0.07	1.7	0.05	1.2	0.13	3.1	0.10	2.5	0.24	5.8	0.82	19.5	0.24	5.7	0.10	2.4	0.34	8.1
ORT36	5.0	0.07	1.5	0.11	2.1	0.15	3.1	0.12	2.4	0.29	5.9	0.77	15.4	0.29	5.7	0.15	3.0	0.36	7.2
ORT37	9.7	0.07	0.8	0.13	1.4	0.17	1.8	0.18	1.8	0.46	4.8	1.29	13.4	0.32	3.3	0.18	1.8	0.60	6.3
ORT38	6.6	0.11	1.7	0.18	2.7	0.16	2.5	0.11	1.6	0.33	5.0	1.94	29.6	0.30	4.5	0.21	3.3	0.38	5.7
ORT39	7.1	0.06	0.8	0.14	2.0	0.18	2.5	0.10	1.4	0.30	4.3	1.58	22.3	0.34	4.8	0.20	2.8	0.45	6.3
ORT40	6.1	0.07	1.1	0.15	2.5	0.15	2.5	0.15	2.6	0.45	7.5	1.02	16.9	0.31	5.2	0.19	3.2	0.67	11.1
ORT41	3.0	0.04	1.4	0.07	2.2	0.11	3.6	0.07	2.4	0.13	4.4	1.03	34.0	0.25	8.4	0.09	2.9	0.20	6.5
Total # Sites		49		49		49		49		49		49		49		49		49	
# Sites with HQs >1		0		0		0		0		4		23		0		2		9	
# Sites with HQs >10		0		0		0		0		0		0		0		0		0	
% Sites with HQs >1		0.0		0.0		0.0		0.0		8.2		46.9		0.0		4.1		18.4	
% Sites with HQs >10		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
Contaminants average % contribution to HI			1.4		1.8		3.1		2.1		4.9		16.5		5.8		3.1		8.0

[a] The Hazard Index (HI) is the sum of all the organic contaminant (Appendix R-4a) and metal contaminant (Appendix R-4b) HQ values.