

DRAFT - FOR CSSAB DISCUSSION PURPOSES ONLY

APPENDIX A

Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS < = 2500				TDS > 2500				R		NR		
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
ALUMINUM	7429-90-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	7440-36-0	0.6	27	0.6	27	60	2700	60	2700	600	27000	600	27000	15
ARSENIC	7440-38-2	1	29	1	29	100	2900	100	2900	1000	29000	1000	29000	15
BARIUM AND COMPOUNDS	7440-39-3	200	8200	200	8200	20000	190000	20000	190000	190000	190000	190000	190000	15
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32000	40	32000	400	190000	400	190000	10
BORON AND COMPOUNDS	7440-42-8	600	1900	600	1900	60000	190000	60000	190000	190000	190000	190000	190000	30
CADMIUM	7440-43-9	0.5	38	0.5	38	50	3800	50	3800	500	38000	500	38000	15
CHROMIUM (III)	16065-83-1	10	190000	10	190000	1000	190000	1000	190000	10000	190000	10000	190000	5
CHROMIUM (VI)	18540-29-9	10	190	10	190	1000	19000	1000	19000	10000	190000	10000	190000	15
COBALT	7440-48-4	1.3	59	3.5	160	130	5900	350	16000	1300	59000	3500	160000	15
COPPER	7440-50-8	100	43000	100	43000	10000	190000	10000	190000	100000	190000	100000	190000	10
CYANIDE, FREE	57-12-5	20	200	20	200	2000	20000	2000	20000	20000	190000	20000	190000	20
FLUORIDE	16984-48-8	400	44	400	44	40000	4400	40000	4400	190000	44000	190000	44000	NA
IRON	7439-89-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	7439-92-1	0.5	450	0.5	450	50	45000	50	45000	500	190000	500	190000	10
LITHIUM	7439-93-2	8.3	2500	23	6900	830	190000	2300	190000	8300	190000	23000	190000	10
MANGANESE	7439-96-5	30	2000	30	2000	3000	190000	3000	190000	30000	190000	30000	190000	15
MERCURY	7439-97-6	0.2	10	0.2	10	20	1000	20	1000	200	10000	200	10000	15
MOLYBDENUM	7439-98-7	4	650	4	650	400	65000	400	65000	4000	190000	4000	190000	15
NICKEL	7440-02-0	10	650	10	650	1000	65000	1000	65000	10000	190000	10000	190000	15
PERCHLORATE	7790-98-9	1.5	0.17	1.5	0.17	150	17	150	17	1500	170	1500	170	NA
SELENIUM	7782-49-2	5	26	5	26	500	2600	500	2600	5000	26000	5000	26000	20
SILVER	7440-22-4	10	84	10	84	1000	8400	1000	8400	10000	84000	10000	84000	20
STRONTIUM	7440-24-6	400	44	400	44	40000	4400	40000	4400	190000	44000	190000	44000	NA
THALLIUM	7440-28-0	0.2	14	0.2	14	20	1400	20	1400	200	14000	200	14000	15
TIN	7440-31-5	2500	190000	7000	190000	190000	190000	190000	190000	190000	190000	190000	190000	10
VANADIUM	7440-62-2	0.29	290	0.82	820	29	29000	82	82000	290	190000	820	190000	5
ZINC	7440-66-6	200	12000	200	12000	20000	190000	20000	190000	190000	190000	190000	190000	15

¹ For other options see Section 250.308

All concentrations in mg/kg

R - Residential

NR - Non-Residential

G - Ingestion

H - Inhalation

C - Cap

U - UBK Model

S - SEGH Model

NA - Not Applicable