

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 | |
| 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 | 45 | 3 | 130 | 100 | 4500 | 290 | 13000 | 1000 | 45000 | 2900 | 130000 | 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 |
| LEAD | 7439-92-1 | 0.5 | 450 | 0.5 | 450 | 50 | 45000 | 50 | 45000 | 500 | 190000 | 500 | 190000 | 10 |
| LITHIUM | 7439-93-2 | 7 | 2100 | 19 | 5700 | 690 | 190000 | 1900 | 190000 | 6900 | 190000 | 19000 | 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 | 2100 | 190000 | 5800 | 190000 | 190000 | 190000 | 190000 | 190000 | 190000 | 190000 | 190000 | 190000 | 10 |
| VANADIUM | 7440-62-2 | 0.24 | 240 | 0.68 | 680 | 24 | 24000 | 68 | 68000 | 240 | 190000 | 680 | 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

NA - Not Applicable