

Appendix A

Table 2 – Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Groundwater

| Regulated Substance | CASRN | Used Aquifers | | | | Nonuse Aquifers | |
|----------------------|------------------|-------------------|-------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| | | TDS ≤ 2500 mg/L | | TDS > 2500 mg/L | | R | NR |
| | | R | NR | R | NR | | |
| ANTIMONY | 7440-36-0 | 6 M | 6 M | 600 M | 600 M | 6,000 M | 6,000 M |
| ARSENIC | 7440-38-2 | 10 M | 10 M | 1,000 M | 1,000 M | 10,000 M | 10,000 M |
| ASBESTOS (fibers/L) | 12001-29-5 | 7,000,000 M | 7,000,000 M | 7,000,000 M | 7,000,000 M | 7,000,000 M | 7,000,000 M |
| BARIUM AND COMPOUNDS | 7440-39-3 | 2,000 M | 2,000 M | 200,000 M | 200,000 M | 2,000,000 M | 2,000,000 M |
| BERYLLIUM | 7440-41-7 | 4 M | 4 M | 400 M | 400 M | 4,000 M | 4,000 M |
| BORON AND COMPOUNDS | 7440-42-8 | 6,000 H | 6,000 H | 600,000 H | 600,000 H | 6,000,000 H | 6,000,000 H |
| CADMIUM | 7440-43-9 | 5 M | 5 M | 500 M | 500 M | 5,000 M | 5,000 M |
| CHROMIUM (TOTAL) | 7440-47-3 | 100 M | 100 M | 10,000 M | 10,000 M | 100,000 M | 100,000 M |
| COBALT | 7440-48-4 | [13] 10 G | [35] 29 G | [1,300] 1,000 G | [3,500] 2,900 G | [13,000] 10,000 G | [35,000] 29,000 G |
| COPPER | 7440-50-8 | 1,000 M | 1,000 M | 100,000 M | 100,000 M | 1,000,000 M | 1,000,000 M |
| CYANIDE, FREE | 57-12-5 | 200 M | 200 M | 20,000 M | 20,000 M | 200,000 M | 200,000 M |
| FLUORIDE | 16984-48-8 | 4,000 M | 4,000 M | 400,000 M | 400,000 M | 4,000,000 M | 4,000,000 M |
| LEAD | 7439-92-1 | 5 M | 5 M | 500 M | 500 M | 5,000 M | 5,000 M |
| LITHIUM | 7439-93-2 | [83] 69 G | [230] 190 G | [8,300] 6,900 G | [23,000] 19,000 G | [83,000] 69,000 G | [230,000] 190,000 G |
| MANGANESE | 7439-96-5 | 300 H | 300 H | 30,000 H | 30,000 H | 300,000 H | 300,000 H |
| MERCURY | 7439-97-6 | 2 M | 2 M | 200 M | 200 M | 2,000 M | 2,000 M |
| MOLYBDENUM | 7439-98-7 | 40 H | 40 H | 4,000 H | 4,000 H | 40,000 H | 40,000 H |
| NICKEL | 7440-02-0 | 100 H | 100 H | 10,000 H | 10,000 H | 100,000 H | 100,000 H |
| NITRATE NITROGEN | 14797-55-8 | 10,000 M | 10,000 M | 1,000,000 M | 1,000,000 M | 10,000,000 M | 10,000,000 M |
| NITRITE NITROGEN | 14797-65-0 | 1,000 M | 1,000 M | 100,000 M | 100,000 M | 1,000,000 M | 1,000,000 M |
| PERCHLORATE | 7790-98-9 | 15 H | 15 H | 1,500 H | 1,500 H | 15,000 H | 15,000 H |
| SELENIUM | 7782-49-2 | 50 M | 50 M | 5,000 M | 5,000 M | 50,000 M | 50,000 M |
| SILVER | 7440-22-4 | 100 H | 100 H | 10,000 H | 10,000 H | 100,000 H | 100,000 H |
| STRONTIUM | 7440-24-6 | 4,000 H | 4,000 H | 400,000 H | 400,000 H | 4,000,000 H | 4,000,000 H |
| THALLIUM | 7440-28-0 | 2 M | 2 M | 200 M | 200 M | 2,000 M | 2,000 M |
| TIN | 7440-31-5 | [25,000] 21,000 G | [70,000] 58,000 G | [2,500,000] 2,100,000 G | [7,000,000] 5,800,000 G | [25,000,000] 21,000,000 G | [70,000,000] 58,000,000 G |

All concentrations in µg/L (except asbestos)

M = Maximum Contaminant Level

H = Lifetime Health Advisory Level

SMCL = Secondary Maximum Contaminant Level

G = Ingestion

N = Inhalation

R = Residential

NR = Nonresidential

PA State MCL adopted as MSC for Copper and Lead

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|---------------------|-----------|-----------------|---------|-----------------|-----------|-----------------|-------------|
| | | TDS ≤ 2500 mg/L | | TDS > 2500 mg/L | | R | NR |
| | | R | NR | R | NR | | |
| VANADIUM | 7440-62-2 | 2.9 G | 8.2 G | 290 G | 820 G | 2,900 G | 8,200 G |
| ZINC AND COMPOUNDS | 7440-66-6 | 2,000 H | 2,000 H | 200,000 H | 200,000 H | 2,000,000 H | 2,000,000 H |

| SECONDARY CONTAMINANTS | | | |
|------------------------|-------------|---------|--------|
| REGULATED SUBSTANCE | CASRN | SMCL | UNITS |
| ALUMINUM | 7429-90-5 | 200 | µg/L |
| CHLORIDE | 7647-14-5 | 250,000 | µg/L |
| [COPPER] | [7440-50-8] | [1000] | [µg/L] |
| [FLUORIDE] | [7681-49-4] | [2,000] | [µg/L] |
| IRON | 7439-89-6 | 300 | µg/L |
| [MANGANESE] | [7439-96-5] | [50] | [µg/L] |
| SULFATE | 7757-82-6 | 250,000 | µg/L |

All concentrations in µg/L (except asbestos)

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