

Appendix D. Selected chemical characteristics (mean \pm SD with range in parentheses) of control and toxicant solutions^a of inorganic chemicals used in acute toxicity tests with larval Rio Grande silvery minnow and fathead minnow.

Toxicant	Alkalinity (mg/L as CaCO ₃)	Hardness (mg/L as CaCO ₃)	Conductivity (μ mhos/cm@ 25°C)	Boron (mg/L)	Calcium	Potassium	Magnesium	Manganese
Controls	128 \pm 0.9 (127-129)	140 \pm 0.5 (139-140)	462 \pm 1.5 (461-464)	0.045 \pm 0.002 (0.042-0.046)	47.7 \pm 0.9 (47.0-48.7)	5.09 \pm 0.21 (4.88-5.30)	7.1 \pm 0.32 (6.84-7.46)	0.010 \pm 0.000 (0.009-0.010)
pH-control ^b	126	140	1,097	0.088	46.3	5.09	7.37	0.011
Aluminum	130 \pm 3.5 126-133	141 \pm 1.5 140-143	715 \pm 348 (484-1115)	0.067 \pm 0.013 ^c (0.050-0.086)	46.4 \pm 0.15 ^c (45.1-48.1)	5.09 \pm 0.21 ^c (4.88-5.30)	7.3 \pm 0.13 ^c (7.11-7.42)	0.011 \pm 0.00 ^c (0.011-0.012)
Ammonia	127 \pm 0.6 126-127	141 \pm 1.2 140-142	1,046 \pm 833 (488-2,004)	nm ^d	nm	nm	nm	nm
Arsenic	156 \pm 34 130-195	141 \pm 0.6 140-141	557 \pm 111 (473-683)	0.046 \pm 0.005 (0.039-0.053)	47.5 \pm 0.87 (45.7-48.3)	4.93 \pm 0.27 (4.67-5.30)	7.3 \pm 0.31 (6.59-7.61)	0.011 \pm 0.00 (0.01-0.01)
Chlorine	128 \pm 0.0 128-128	141 \pm 1.0 140-142	466 \pm 1.0 (465-467)	nm	nm	nm	nm	nm
Copper	128 \pm 1.5 127-130	140 ^e	461 \pm 1.0 (460-462)	0.048 \pm 0.003 (0.041-0.052)	47.2 \pm 0.72 (46.2-48.5)	4.91 \pm 0.21 (4.67-5.30)	7.1 \pm 0.16 (6.71-7.22)	0.011 \pm 0.00 (0.01-0.01)
Nitrate	127 \pm 1.2 126-128	141 \pm 0.6 140-141	9,571 \pm 9,345 (2,052-20,033)	nm	nm	nm	nm	nm
Isleta Site mixture	123 \pm 7.6 114-128	140 ^e	1,554 \pm 1,506 (516-3,282)	0.046 \pm 0.004 (0.039-0.054)	47.4 \pm 0.73 (46.4-48.5)	5.16 \pm 0.21 (4.88-5.51)	7.8 \pm 0.24 (7.37-8.12)	0.010 \pm 0.00 (0.01-0.01)

^aAlkalinity, hardness, and conductivity measured in high, medium, and low toxicant treatments and the control; boron, calcium, potassium, magnesium, and manganese measured in all toxicant treatments and the control.

Appendix D. Continued.

^bUsed in tests with aluminum (see text).

^cMeasured in the five highest toxicant treatments and the control.

^dnm = not measured.

^eMeasured in low treatment only (see text).