Table 2. Minimum reporting levels (MRL's) and references for analytical techniques for major ions, trace metals, nutrients, carbon, and radiochemical isotopes analyzed in water samples collected from alluvial aquifers in eastern Iowa and southern Minnesota, June–July 1998

[mg/L, milligrams per liter; µg/L, micrograms per liter; pCi/L, picocuries per liter]

Constituent	Chemical Abstract Service (CAS) registry number	MRL (mg/L, except as noted)	Reference for analytical technique
Major ions			
Calcium, dissolved	7440–70–2	0.02	Fishman, 1993
Magnesium, dissolved	7439–95–4	.01	Do.
Sodium, dissolved	7440–23–5	.2	Do.
Potassium, dissolved	7440–09–7	.1	Do.
Chloride, dissolved	16887–00–6	.1	Do.
Sulfate, dissolved	14808–79–8	.1	Do.
Fluoride, dissolved	16984–48–8	.1	Do.
Bromide, dissolved	24959–67–9	.1	Do.
Silica, dissolved	7631–86–9	.1	Do.
			Do.
Trace metals			
Iron, dissolved	7439–89–6	10 µg/L	Do.
Manganese, dissolved	7439–96–5	1 µg/L	Do.
Nutrients			
Nitrite as nitrogen, dissolved	14797–65–0	.01	Do.
Nitrite plus nitrate as nitrogen, dissolved		.01	Do.
Ammonia as nitrogen, dissolved	7664–41–7	.01	Do.
Ammonia plus organic nitrogen, dissolved	17778–88–0	.1	Do.
Ammonia plus organic nitrogen, total	17778–88–0	.1	Do.
Phosphorus, total	7723–14–0	.001	Do.
Orthophosphate as phosphorus, dissolved	14265–44–2	.001	Do.
			Do.
Carbon			
Organic carbon, dissolved		.1	Do.
Radiochemical isotopes			
Tritium, total	10028–17–8	1.0 pCi/L	Ostlund and Dorsey, 1977
Radon-222, total	14859–67–7	80 pCi/L	American Society for Testing Materials, 1996