

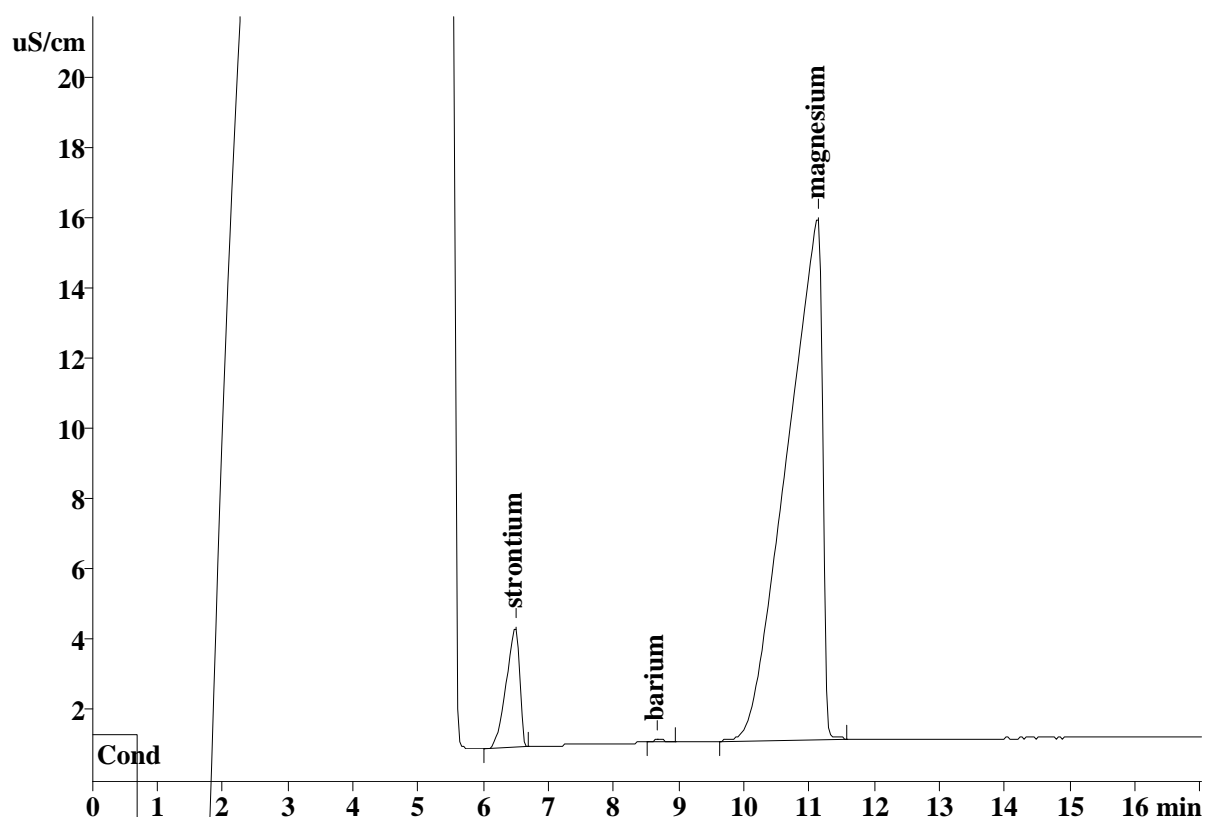
# IC Application Note No. C-60

**Title:** Magnesium, strontium and barium in produced water (11 g/L sodium)

**Summary:** Determination of magnesium, strontium and barium in produced water using cation chromatography with direct conductivity detection.

**Sample:** Produced water (high sodium content, approx. 11 g/L)  
**Sample Preparation:** Direct injection after acidification to pH = 2.5

**Column:** 6.1007.000 Nucleosil 5SA  
**Eluent:** 4.0 mmol/L tartaric acid, 3.0 mmol/L ethylene diamine, 0.5 mmol/L dipicolinic acid, 5% acetone  
**Flow:** 1.5 mL/min  
**Injection Volume:** 20 µL



<b>Results:</b>	Sr <sup>2+</sup> mg/L	Ba <sup>2+</sup> mg/L	Mg <sup>2+</sup> mg/L
	39.4	1.96	245