

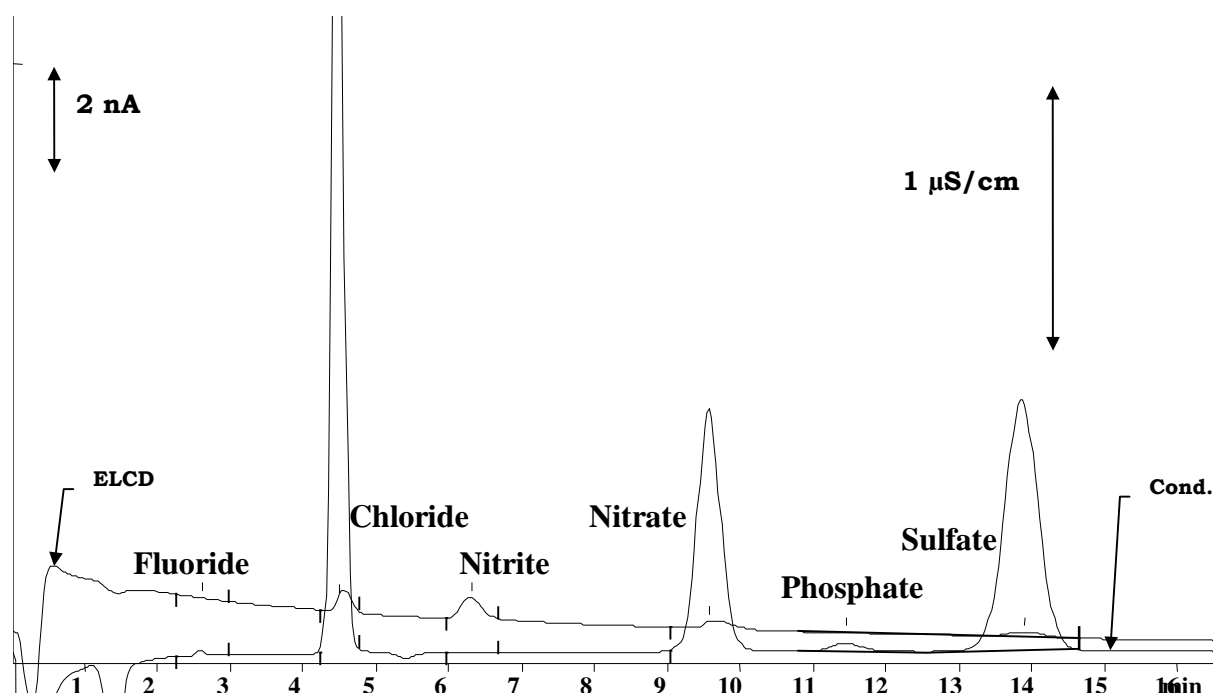
# IC Application Note No. S-33

**Title:** Five anions in surface waters

**Summary:** Determination of fluoride, chloride, nitrate, phosphate and sulfate in surface water using anion chromatography with conductivity detection after chemical suppression and nitrite with electrochemical detection (Conductivity and ELCD Detectors in series).

**Sample:** Surface Water  
**Sample Preparation:** -

**Column:** 6.1006.100 Metrosep Anion Dual 2  
**Eluent:** 2.0 mmol/L sodium hydrogencarbonate, 1.5 mmol/L sodium carbonate  
**Suppressor:** Metrohm Suppressor Module (MSM, 50 mmol/L H<sub>2</sub>SO<sub>4</sub>)  
**Flow:** 0.8 mL/min  
**Injection Volume:** 20 µL



<b>Results:</b>	Fluoride mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L
	0.018	5.53	0.0036	4.23	0.41	4.86