

IC Application Note No. N-5

Title:	Traces of Silica (SiO₂) in Water (e.g. Boiler Water) after preconcentration
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Summary:	Determination of silica (as silicate) in pure water with preconcentration using anion chromatography direct conductivity detection (without any post column reaction).
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Sample:	Pure Water spiked with silicate
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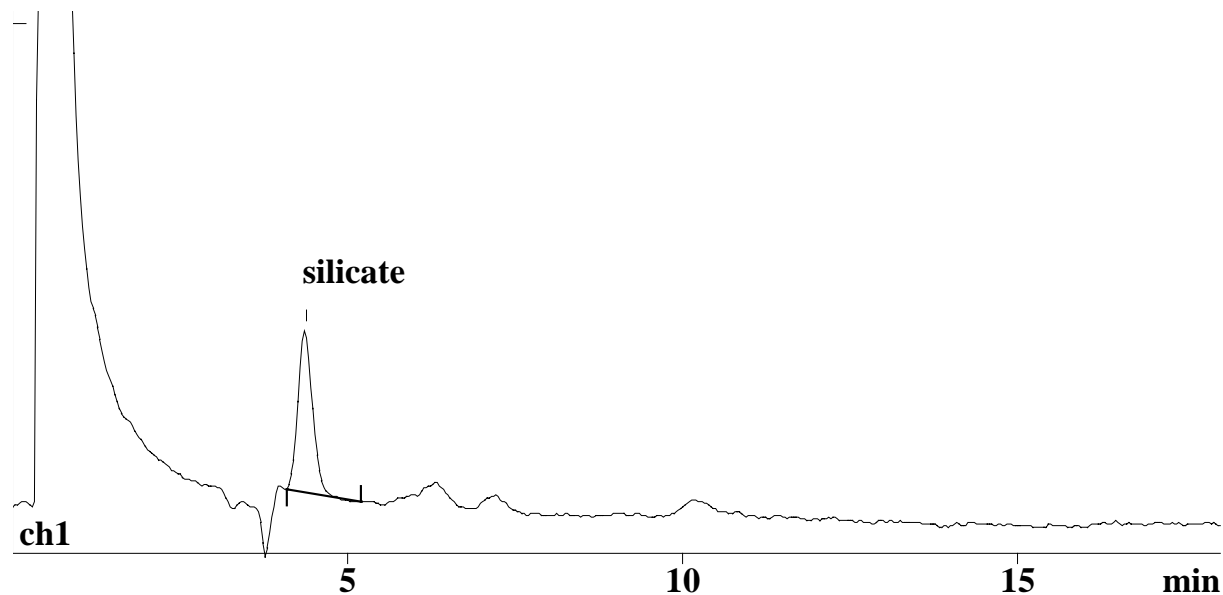
Sample Preparation:	10 mL of sample preconcentrated on a Hamilton PRP X-100 precolumn.
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Column:	6.1005.000 Hamilton PRP X-100
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Eluent:	3.2 mmol/l potassium hydroxide
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Flow:	2.0 mL/min
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Injection Volume:	100 µL
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Results:	SiO ₂ (as silicate) mg/L
	0.03 (0.05)