

Table S3: Laboratory analysis methods, precision and detection limits for water chemistry parameters

Analyte	Ca ⁺²	K ⁺	Mg ⁺²	Na ⁺	Si	Cu	Fe	Cl ⁻	SO ₄ ⁻²	ANC	δD	δO ¹⁸
Instrument/method	Inductively Coupled Plasma Mass Spectrometer (ICP-MS)								Metrohm 840 Compact IC	Manual gran titration	Picarro L2130-i	
Lab precision (% RSD)	0.24%	0.59%	0.31%	0.43%	unknown			0.62%	0.17%	0.87%	0.10%	0.13%
Analysis detection limit (μeq/L unless otherwise noted)	0.49	0.09	0.11	0.1	0.183 ppb	0.008 ppb	0.010 ppb	0.17	0.06	n/a	n/a	n/a