



2017 North American Proficiency Testing Program
1st Quarter Report - April 14, 2017

Laboratory ID
general

Water Analysis		Units	n	Water 2017-301			Water 2017-302			Water 2017-303		
				Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH			29	7.73	0.130		8.07	0.070		6.58	0.160	
EC	dS/m		29	0.155	0.006		0.665	0.020		0.190	0.004	
Cations												
Ca	mmolc/L		28	0.891	0.037		2.76	0.070		0.690	0.032	
Mg	mmolc/L		28	0.410	0.020		2.38	0.103		0.346	0.017	
Na	mmolc/L		28	0.240	0.010		1.69	0.063		0.470	0.010	
K	mmolc/L		28	0.030	0.002		0.044	0.006		0.064	0.006	
NH4-N	mmolc/L		10	0.000	0.000		0.000	0.000		0.000	0.000	
Sum Cations	mmolc/L		13	1.55	0.060		6.84	0.297		1.55	0.060	
SAR			13	0.300	0.010		1.06	0.020		0.650	0.020	
Adj-SAR			5	0.340	0.050		2.30	0.010		0.090	0.050	
Anions												
HCO3	mmolc/L		22	1.21	0.040		3.70	0.300		0.162	0.022	
CO3	mmolc/L		13	0.000	0.000		0.433	0.078		0.000	0.000	
Cl	mmolc/L		26	0.083	0.010		2.43	0.110		0.366	0.029	
NO3	mmolc/L		24	0.014	0.002		0.170	0.020		0.983	0.079	
SO4	mmolc/L		25	0.258	0.018		0.340	0.026		0.010	0.002	
Sum Anions	mmolc/L		13	1.55	0.050		6.70	0.205		1.55	0.056	
Cation-Anion Difference			6	0.030	0.030		0.160	0.250		0.020	0.020	
Other												
Boron	mg/L		18	0.013	0.003		0.010	0.002		0.007	0.002	
PO4-P Phosphorus - Spec	mg/L		6	0.020	0.010		0.530	0.020		0.020	0.013	
Phosphorus - ICP (Total)	mg/L		13	0.015	0.002		0.500	0.030		0.010	0.003	
TKN	mg/L		6	0.060	0.000		0.070	0.000		1.03	0.000	
Nitrogen Combustion (Total)	mg/L		2	0.258	0.000		2.73	0.000		16.0	0.000	
Total Organic Carbon	mg/L		4	1.35	0.005		0.121	0.121		0.025	0.025	

1 - Values flagged exceed Warning Limits ** 2.5 x MAD (Median Absolute Deviation) and Control Limits *** 4 x MAD. < " and "ND" values not recorded.

2 - Limits not compared to lab data for methods with < 7 labs reporting.