



2018 North American Proficiency Testing Program  
Quarter 1 Water Report - Apr 09, 2018

Laboratory ID  
general

Water Analysis	Units	n	Water 2018-301			Water 2018-302			Water 2018-303		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
pH		28	8.03	0.055		8.09	0.090		8.10	0.105	
EC	dS/m	28	0.557	0.026		0.690	0.014		0.809	0.020	
<b>Cations</b>											
Ca	mmol/L	28	3.01	0.133		4.65	0.178		4.00	0.125	
Mg	mmol/L	28	2.03	0.115		1.29	0.077		1.23	0.055	
Na	mmol/L	28	1.17	0.038		1.29	0.042		2.38	0.085	
K	mmol/L	28	0.183	0.013		0.099	0.005		0.580	0.016	
NH4-N	mmol/L	9	0.000	0.000		0.000	0.000		0.000	0.000	
Sum Cations	mmol/L	12	6.37	0.333		7.28	0.403		8.31	0.366	
SAR		14	0.720	0.021		0.740	0.022		1.50	0.045	
Adj-SAR		5	1.60	0.030		1.52	0.020		3.00	0.000	
<b>Anions</b>											
HCO3	mmol/L	21	5.20	0.373		3.40	0.170		3.14	0.170	
CO3	mmol/L	15	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmol/L	24	0.563	0.033		0.732	0.075		1.83	0.125	
NO3	mmol/L	25	0.062	0.007		0.030	0.006		0.006	0.001	
SO4	mmol/L	25	0.460	0.040		3.06	0.115		3.09	0.185	
Sum Anions	mmol/L	12	6.44	0.191		7.32	0.159		8.31	0.116	
Cation-Anion Difference		7	0.082	0.177		0.058	0.121		0.211	0.406	
<b>Other</b>											
Boron	mg/L	21	0.050	0.009		0.075	0.012		0.080	0.013	
PO4-P Phosphorus - Spec	mg/L	5	0.085	0.014		0.019	0.019		0.019	0.019	
Phosphorus - ICP (Total)	mg/L	16	0.140	0.034		0.036	0.006		0.025	0.004	
TKN	mg/L	6	0.384	0.168		0.464	0.214		0.480	0.211	
Nitrogen Combustion (Total)	mg/L	2	19.2	17.8		32.7	32.3		47.0	0.000	
Total Organic Carbon	mg/L	2	0.931	0.047		0.871	0.031		1.06	0.024	