



## 2010 North American Proficiency Testing Program 1st Quarter Report - May 2, 2010

Laboratory ID

Water	Water 2010-301			Water 2010-302			Water 2010-303				
Analysis	Units	n	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
pH		29	7.20	0.300		8.00	0.140		7.17	0.350	
EC	dS/m	27	0.200	0.010		0.434	0.017		0.348	0.014	
<b>Cations</b>											
Ca	mmolc/L	27	0.598	0.028		2.77	0.130		1.57	0.063	
Mg	mmolc/L	27	0.420	0.032		1.28	0.053		0.931	0.059	
Na	mmolc/L	25	0.750	0.030		0.570	0.023		0.891	0.036	
K	mmolc/L	27	0.128	0.008		0.051	0.004		0.059	0.007	
NH4-N	mmolc/L	9	0.003	0.004		0.000	0.000		0.010	0.010	
Sum Cations	mmolc/L	14	1.87	0.075		4.56	0.183		3.43	0.137	
SAR		16	1.05	0.065		0.400	0.016		0.800	0.022	
Adj-SAR		7	0.850	0.034		0.716	0.046		1.13	0.070	
<b>Anions</b>											
HCO3	mmolc/L	16	0.730	0.070		3.05	0.122		1.87	0.095	
CO3	mmolc/L	8	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	19	0.818	0.033		0.510	0.020		1.03	0.070	
NO3	mmolc/L	26	0.015	0.008		0.020	0.007		0.007	0.007	
SO4	mmolc/L	20	0.270	0.027		0.917	0.037		0.510	0.030	
Sum Anions	mmolc/L	13	1.85	0.074		4.55	0.182		3.34	0.180	
Cation-Anion Difference		36	0.000	0.000		0.000	0.000		0.000	0.000	
Boron	mg/L	15	0.020	0.010		0.034	0.006		0.033	0.014	
PO4-P Phosphorus - Spec	mg/L	5	0.017	0.025		0.034	0.030		0.039	0.025	
Phosphorus - ICP (Total)	mg/L	14	0.040	0.025		0.036	0.030		0.020	0.020	
TKN	mg/L	6	1.12	0.210		0.230	0.150		0.600	0.099	
Nitrogen Combustion (Total)	mg/L	1	1.03	0.014		0.374	0.000		0.479	0.000	
Total Organic Carbon	mg/L	5	15.8	1.14		1.81	0.322		8.18	0.183	

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.