



2011 North American Proficiency Testing Program 1st Quarter Report - May 10, 2011

Laboratory ID
general

Water	Water 2011-301					Water 2011-302			Water 2011-303		
Analysis	Units	<i>n</i>	Median	<i>MAD</i>	Lab ^{1,2}	Median	<i>MAD</i>	Lab ^{1,2}	Median	<i>MAD</i>	Lab ^{1,2}
pH		31	8.00	0.190		7.78	0.202		6.67	0.301	
EC	dS/m	27	0.725	0.056		0.216	0.111		1.326	0.173	
Cations											
Ca	mmolc/L	29	2.877	0.314		0.90	0.130		1.11	0.119	
Mg	mmolc/L	29	2.264	0.232		0.36	0.055		0.460	0.056	
Na	mmolc/L	28	2.710	0.342		0.661	0.779		11.002	1.767	
K	mmolc/L	29	0.524	0.829		0.480	0.829		0.609	0.866	
NH4-N	mmolc/L	14	0.002	0.003		0.001	0.002		0.001	0.002	
Sum Cations	mmolc/L	18	8.28	0.645		2.30	1.265		12.95	2.248	
SAR		18	1.63	0.133		0.961	1.185		11.598	1.765	
Adj-SAR		7	2.733	0.525		1.674	2.282		4.81	1.942	
Anions											
HCO3	mmolc/L	20	3.433	0.244		1.36	0.174		0.42	0.230	
CO3	mmolc/L	12	0.077	0.121		0.001	0.002		0.000	0.000	
Cl	mmolc/L	22	0.702	0.068		0.227	0.177		2.24	0.346	
NO3	mmolc/L	25	0.127	0.202		0.063	0.093		0.067	0.066	
SO4	mmolc/L	21	3.689	0.470		0.684	1.051		9.604	2.080	
Sum Anions	mmolc/L	13	8.14	0.333		2.63	1.834		11.78	3.041	
Cation-Anion Difference		10	0.265	0.497		0.314	0.311		1.006	2.364	
Boron	mg/L	17	0.125	0.028		0.052	0.065		0.375	0.071	
PO4-P Phosphorus - Spec	mg/L	6	0.093	0.116		0.092	0.089		0.046	0.051	
Phosphorus - ICP (Total)	mg/L	12	0.200	0.212		0.120	0.111		0.143	0.140	
TKN	mg/L	5	2.19	3.122		1.752	2.499		3.280	4.288	
Nitrogen Combustion (Total)	mg/L	1	0.29	0.000		0.080	0.000		0.070	0.000	
Total Organic Carbon	mg/L	2	2.9	0.100		1.04	0.040		9.84	0.160	

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.