



2011 North American Proficiency Testing Program 4th Quarter Report - January 25, 2012

Laboratory ID
general

Water		Water 2011-310				Water 2011-311				Water 2011-312			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}		
pH		25	7.9	0.17		8.0	0.09		7.9	0.12			
EC	dS/m	24	0.513	0.018		0.271	0.012		0.880	0.020			
Cations													
Ca	mmolc/L	25	3.86	0.200		1.71	0.095		4.44	0.200			
Mg	mmolc/L	25	1.18	0.050		0.860	0.056		4.78	0.220			
Na	mmolc/L	23	0.320	0.016		0.241	0.015		0.470	0.030			
K	mmolc/L	23	0.050	0.010		0.030	0.001		0.180	0.007			
NH4-N	mmolc/L	10	0.001	0.000		0.000	0.000		0.000	0.000			
Sum Cations	mmolc/L	14	5.55	0.205		2.91	0.125		9.86	0.405			
SAR		15	0.200	0.000		0.210	0.010		0.220	0.010			
Adj-SAR		7	0.430	0.030		0.340	0.040		0.500	0.030			
Anions													
HCO3	mmolc/L	16	4.13	0.100		2.23	0.043		3.91	0.120			
CO3	mmolc/L	11	0.000	0.000		0.000	0.000		0.000	0.000			
Cl	mmolc/L	22	0.438	0.065		0.080	0.008		0.232	0.038			
NO3	mmolc/L	23	0.110	0.015		0.010	0.001		0.028	0.003			
SO4	mmolc/L	20	0.750	0.042		0.544	0.025		5.79	0.355			
Sum Anions	mmolc/L	13	5.43	0.110		2.91	0.090		10.0	0.310			
Cation-Anion Difference		8	0.148	0.015		0.065	0.007		0.264	0.026			
Other													
Boron	mg/L	18	0.058	0.008		0.020	0.002		0.190	0.010			
PO4-P Phosphorus - Spec	mg/L	5	0.060	0.006		0.026	0.003		0.060	0.006			
Phosphorus - ICP (Total)	mg/L	14	0.045	0.005		0.034	0.003		0.037	0.004			
TKN	mg/L	4	0.050	0.005		0.046	0.005		0.160	0.016			
Nitrogen Combustion (Total)	mg/L	1	1.562	0.000		0.187	0.000		0.534	0.000			
Total Organic Carbon	mg/L	2	0.797	0.173		0.818	0.132		2.09	0.261			

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.