



2012 North American Proficiency Testing Program 3rd Quarter Report - October 16, 2012

Laboratory ID
general

Water	Water 2012-307				Water 2012-308			Water 2012-309			
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		31	8.05	0.070		7.76	0.160		8.03	0.100	
EC	dS/m	29	2.38	0.060		0.241	0.009		0.941	0.027	
Cations											
Ca	mmolc/L	31	6.75	0.270		1.88	0.080		4.02	0.188	
Mg	mmolc/L	31	9.32	0.500		0.530	0.040		5.06	0.200	
Na	mmolc/L	30	12.5	0.685		0.165	0.025		2.25	0.115	
K	mmolc/L	29	0.190	0.010		0.030	0.001		0.120	0.010	
NH4-N	mmolc/L	11	0.000	0.000		0.000	0.000		0.000	0.000	
Sum Cations	mmolc/L	18	28.6	1.25		2.62	0.149		11.4	0.353	
SAR		19	4.40	0.160		0.150	0.020		1.08	0.035	
Adj-SAR		8	9.66	1.84		0.235	0.018		2.28	0.330	
Anions											
HCO3	mmolc/L	20	4.36	0.320		2.09	0.112		9.09	0.363	
CO3	mmolc/L	12	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	26	1.86	0.114		0.051	0.010		0.559	0.045	
NO3	mmolc/L	27	0.013	0.003		0.009	0.002		0.021	0.004	
SO4	mmolc/L	22	23.1	1.00		0.400	0.026		1.35	0.070	
Sum Anions	mmolc/L	14	29.6	0.554		2.60	0.223		11.3	0.526	
Cation-Anion Difference		9	0.250	0.758		0.075	0.052		0.140	0.258	
Boron	mg/L	21	0.255	0.025		0.011	0.000		0.200	0.020	
PO4-P Phosphorus - Spec	mg/L	7	0.070	0.069		0.010	0.010		0.044	0.003	
Phosphorus - ICP (Total)	mg/L	12	0.040	0.008		0.060	0.013		0.070	0.007	
TKN	mg/L	3	0.500	0.050		0.415	0.248		0.550	0.185	
Nitrogen Combustion (Total)	mg/L	1	0.528	0.000		0.151	0.000		0.645	0.000	
Total Organic Carbon	mg/L	3	5.21	0.495		1.43	0.366		4.50	0.415	

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.