



**2014 North American Proficiency Testing Program
3rd Quarter Report - October 16, 2014**

Laboratory ID
general

Water Analysis	Units	n	Water 2014-307			Water 2014-308			Water 2014-309		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
pH		29	7.35	0.200		8.00	0.100		8.00	0.100	
EC	dS/m	27	0.070	0.005		0.520	0.011		0.810	0.011	
Cations											
Ca	mmolc/L	28	0.340	0.020		2.79	0.110		3.23	0.120	
Mg	mmolc/L	28	0.150	0.010		1.86	0.105		3.14	0.175	
Na	mmolc/L	28	0.150	0.020		1.02	0.035		2.25	0.130	
K	mmolc/L	27	0.021	0.001		0.150	0.006		0.069	0.009	
NH4-N	mmolc/L	9	0.000	0.000		0.002	0.002		0.000	0.000	
Sum Cations	mmolc/L	12	0.655	0.050		5.84	0.135		8.88	0.255	
SAR		14	0.300	0.020		0.660	0.030		1.26	0.050	
Adj-SAR		6	0.100	0.000		1.40	0.060		2.85	0.150	
Anions											
HCO3	mmolc/L	19	0.540	0.040		4.94	0.270		5.50	0.130	
CO3	mmolc/L	10	0.000	0.000		0.000	0.000		0.000	0.000	
Cl	mmolc/L	22	0.077	0.010		0.438	0.028		0.801	0.066	
NO3	mmolc/L	20	0.008	0.002		0.038	0.009		1.17	0.130	
SO4	mmolc/L	20	0.070	0.010		0.400	0.020		1.13	0.050	
Sum Anions	mmolc/L	11	0.650	0.080		5.91	0.250		8.57	0.110	
Cation-Anion Difference		7	0.050	0.050		0.150	0.210		0.140	0.321	
Other											
Boron	mg/L	17	0.020	0.003		0.050	0.010		0.092	0.012	
PO4-P Phosphorus - Spec	mg/L	4	0.020	0.010		0.040	0.028		0.075	0.050	
Phosphorus - ICP (Total)	mg/L	6	0.002	0.002		0.031	0.004		0.005	0.005	
TKN	mg/L	2	1.25	1.25		0.400	0.400		0.200	0.200	
Nitrogen Combustion (Total)	mg/L	1	0.700	0.00		1.20	0.000		10.2	0.000	
Total Organic Carbon	mg/L	3	1.20	0.030		0.940	0.020		0.670	0.000	

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.