2008 North American Proficiency Testing Program
2nd Quarter Report - July 5, 2008

Laboratory ID

Water			Water 2008-304			Water 2008-305			Water 2008-306		
Analysis	**Units**	***n***	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**	**Median**	***MAD***	**Lab[1,2]**
pH		30	**7.62**	*0.115*		**8.20**	*0.105*		**7.50**	*0.155*	
EC	dS/m	28	**0.99**	*0.138*		**0.48**	*0.019*		**15.5**	*0.745*	
Cations											
Ca	mmolc/L	30	**5.60**	*0.342*		**2.46**	*0.077*		**21.5**	*1.445*	
Mg	mmolc/L	30	**4.84**	*0.216*		**1.39**	*0.060*		**1.06**	*0.090*	
Na	mmolc/L	29	**0.740**	*0.040*		**1.05**	*0.040*		**118**	*11.3*	
K	mmolc/L	28	**0.062**	*0.011*		**0.061**	*0.009*		**10.3**	*0.902*	
NH4-N	mmolc/L	12	**0.001**	*0.001*		**0.001**	*0.001*		**0.112**	*0.010*	
Sum Cations	mmolc/L	16	**11.2**	*0.44*		**5.08**	*0.18*		**156**	*7.5*	
SAR		16	**0.32**	*0.012*		**0.77**	*0.051*		**35.4**	*3.94*	
Adj-SAR		8	**0.83**	*0.055*		**1.39**	*0.090*		**63.2**	*5.30*	
Anions											
HCO3	mmolc/L	20	**8.45**	*0.221*		**3.04**	*0.150*		**1.58**	*0.089*	
CO3	mmolc/L	15	**0.00**	*0.000*		**0.07**	*0.070*		**0.00**	*0.000*	
Cl	mmolc/L	25	**0.120**	*0.030*		**1.44**	*0.060*		**152**	*6.5*	
NO3	mmolc/L	30	**0.030**	*0.015*		**0.080**	*0.020*		**0.016**	*0.016*	
SO4	mmolc/L	24	**2.83**	*0.145*		**0.245**	*0.029*		**1.725**	*0.205*	
Sum Anions	mmolc/L	16	**11.4**	*0.27*		**4.86**	*0.233*		**159**	*7.0*	
Cation-Anion Difference		41	**-0.15**			**0.22**			**-2.39**		
Boron	mg/L	22	**0.110**	*0.011*		**0.020**	*0.010*		**1.825**	*0.125*	
PO4-P Phosphorus - Spec	mg/L	5	**0.015**	*0.015*		**0.023**	*0.023*		**0.002**	*0.002*	
Phosphorus - ICP (Total)	mg/L	15	**0.001**	*0.001*		**0.030**	*0.022*		**0.026**	*0.026*	
TKN	mg/L	5	**0.426**	*0.236*		**0.643**	*0.357*		**1.600**	*0.520*	
Nitrogen Combustion (Total)	mg/L	1	**0.463**	*0.000*		**1.340**	*0.000*		**1.740**	*0.000*	
Total Organic Carbon	mg/L	3	**1.863**	*0.313*		**1.576**	*0.153*		**0.510**	*0.251*	

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.