

Hydrology Investigation

Quality Control Procedure Data Sheet

School name: _____

Student group: _____

Date: _____

Dissolved Oxygen:

Temperature of distilled water: _____ °C; Elevation of your site: _____ meters

Dissolved Oxygen for the shaken distilled water:

Observer 1: _____ mg/L Observer 2: _____ mg/L Observer 3: _____ mg/L Average: _____ mg/L

Solubility of oxygen in water
for your temperature at
sea level from Table 3-1:

Calibration value
for your elevation
from Table 3-2:

Expected value
for DO in your
distilled water:

_____ mg/L x _____ = _____ mg/L

Salinity

Salinity of Standard: Observer 1: _____ ppt Observer 2: _____ ppt Observer 3: _____ ppt

Average Salinity: _____ ppt

Alkalinity

Standard used (check one): Baking soda standard: _____ Purchased standard: _____

Alkalinity of standard: _____ mg/L

For kits that read alkalinity directly:

Observer 1: _____ mg/L as CaCO₃ Observer 2: _____ mg/L as CaCO₃ Observer 3: _____ mg/L as CaCO₃

Average: _____ mg/L as CaCO₃

For kits in which drops are counted:

	Observer 1	Observer 2	Observer 3	Average
Number of drops:	_____ drops	_____ drops	_____ drops	_____ drops
Conversion constant for your kit and protocol:	x _____	x _____	x _____	x _____
Total Alkalinity: (mg/L as CaCO ₃)	= _____ mg/L	= _____ mg/L	= _____ mg/L	= _____ mg/L

Nitrate-Nitrogen

Observer 1: _____ mg/L NO₃⁻ - N Observer 2: _____ mg/L NO₃⁻ - N Observer 3: _____ mg/L NO₃⁻ - N

Average: _____ mg/L NO₃⁻ - N