

Hardness Data Sheet

Station Name _____

Station Number _____

River/Stream _____

Date of sample ___/___/___

Volunteer Group _____

Time of sample ___ : ___

TOTAL HARDNESS

1. Amount of sample used (should be 50ml): _____ ml

2. Add ammonia buffer and EBT indicator.
Did solution turn magenta/purple? Yes No

Make sure your burette is zeroed and there is EDTA in tip of burette, but there are no air bubbles in tip of burette. Your starting point on the burette should be 0.0.

4. Titrate from magenta/purple to blue.

5. Record the ml of EDTA you added. _____ ml

6. Multiply ml of EDTA used by 20 to get the Total Hardness result, and record below.

Example: (7.4 mL EDTA titrant used) x 20 = 148.0 (mg/L) total hardness as CaCO₃

Total hardness _____ (mg/L) CaCO₃

Your hardness result SHOULD be higher than alkalinity. Check your work!

Comments: _____

Data recorded by _____

Date recorded _____