

### Alkalinity - High range (Hach AL-AP)



1. Fill a CLEAN plastic measuring tube completely full with water sample A and pour into a square mixing bottle. Do the same with sample B in additional containers.
2. Add the contents of one Phenolphthalein indicator powder pillow to each mixing bottle. Swirl to mix by placing one finger under the bottle and rotating the bottle back and forth with the other hand.
3. If the water remains colorless, proceed to step 4. If there is a color change, then stop this procedure and follow the directions in the **CREEK CONNECTIONS HANDBOOK**.
4. Add the contents of one Bromcresol Green-Methyl Red indicator powder pillow to each bottle and swirl to mix. The color will change to blue –green. **Over ↓**

5. Add (and count!) Sulfuric Acid standard solution **one drop at a time**, holding the eye dropper straight up and down, to the blue-green solution in the square mixing bottle. Swirl to mix **after every drop** until the color changes to a red/pink color. Add drops until the **shade** of pink no longer changes, **counting the number of drops**.
6. Multiply the total number of drops by 17, and record this value on datasheet.
7. If only a drop or two was needed to titrate the sample, then proceed to the low range test for more accurate results (**See Creek Connections Handbook**).
8. Rinse all glassware with distilled water.

