SCAN TO DOWNLOAD THE FORM

Fig 1: Aligning the cards (Colorimetric tests)

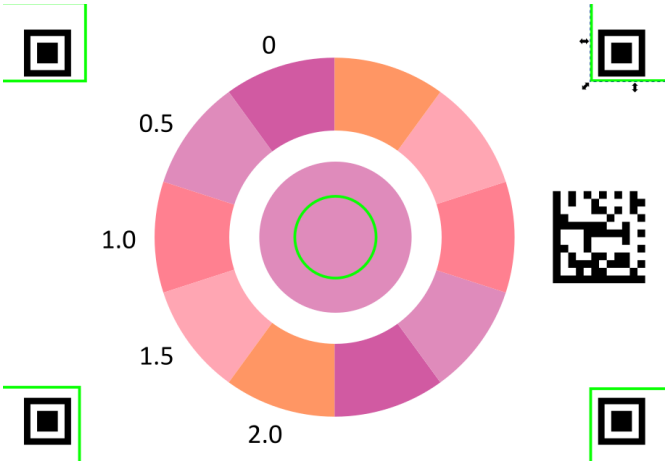
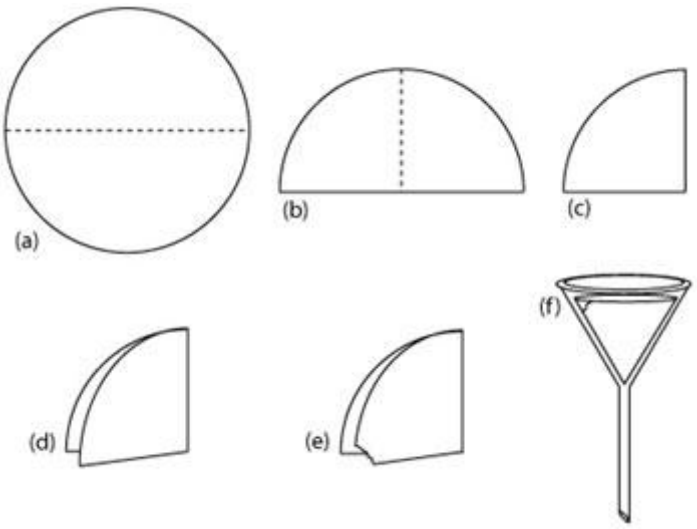


Fig 2: Focusing on the chamber (Turbidity and Hazen Units test)

Fig 3: Folding the filter paper into the funnel (Filtration)



3.1.1 : Table of Variables (Titration Tests)

Parameter	Volume of sample (in ml)	Reagent	Mixing procedure	Color change to look for while adding titration solution
Total Hardness	10	One bottle of reagent A and one bottle of reagent B and one bottle of titrant	Add half spoon of reagent A and 10 drops of reagent B and mix the contents well. Titrate with titrant bottle drop by drop	**Red to Blue**

Total Alkalinity	10	One bottle of reagent A and one bottle titrant	Add 2 drops of reagent A and mix well. -If pink color appears, it indicates presence of p alkalinity. Add titrant drop by drop until the pink color disappears. Note the drops in titration 1 drops. If pink color doesn't appear note '0' in titration 1 drops. - To this solution add half spoon reagent B and solution turns green. Titrate drop by drop with titrant until green turns reddish violet and note the drops in titration 2 drops.	**Colorless to Pink** **Colorless to Green** **Green to Reddish Blue**

3.1.2 : Table of Variables (Colorimetric Tests)

The sample volume, reagent volume and wait time is the same when calibrating and/or testing

Parameter	**Volume of sample (in ml)**	**Reagent**	**Mixing procedure**	**Range limits (in mg/l)**
Fluoride	5	One dropper bottle of Fluoride Reagent	Add **5 drops** of Fluoride Reagent to the sample solution Shake gently 2-3 times	0 - 2

Nitrate	10	One strip of tablets each of Nitrate Reagent A and B	Add **1 tablet of Nitrate Reagent A** and **1 tablet of Nitrate Reagent B** to the sample solution Shake well until tablets have dissolved	0 - 75
Free Chlorine	5	One dropper bottle of chlorine reagent	Add 5 drops of Free chlorine reagent to the sample solution Shake well	0 - 3
Iron	5	One 30 ml dropper bottle Iron A reagent and One 60 ml dropper bottle for Iron B reagent	Add 1 drop of Iron A reagent and Add 5 drops of Iron B reagent to sample solution. Shake gently 2-3 times	0-1.5
pH	5	One dropper bottle of Universal pH indicator	Add **1 drop** of Universal pH indicator to the sample solution Shake gently 2-3 times	4 - 10

3.1.3: Table of Variables (Hazen Units and Turbidity Tests)

The sample volume, reagent volume and wait time is the same when calibrating and/or testing

Parameter	**Volume of sample (in ml)**	**Mixing procedure**	**Range limits (in mg/l)**
Hazen Units	5-10	Take 15-20 ml of the sample or calibration solution till it reaches the brim of the testing chamber	0 - 30
Turbidity	5-10	Take 15-20 ml of the sample or calibration solution till it reaches the brim of the testing chamber	0 - 30