

“Rainfall to Tap”

Lesson #2 - Data Sheet



Blind Taste Test

After tasting three samples of water, I prefer (circle the letter of the water you like best)

Water A _____

Water B _____

Water C _____

Iron Test

Water utilities regularly test for the presence of iron in water. This test for iron in water results in the sample turning orange if iron is present. Darker orange indicates high concentration. Lighter orange indicates low concentration. The water will be clear if iron concentration is zero. Although low concentrations of iron are not harmful, the resulting stains on fixtures can be a nuisance.

*Compare the color changes from concentrated iron (sample #1), distilled water (sample #2) and tap water from your school (sample #3).

1) **Question:** Is there iron in our schools tap water?

2) **Prediction:**

a) When tested for iron, concentrated iron (sample #1) will result in _____ concentration of iron.
high, low or zero

b) When tested for iron, distilled water (sample #2) will result in _____ concentration of iron.
high, low or zero

c) When tested for iron, my schools tap water (sample #3) will result in _____ concentration of iron.
high, low or zero

3) **Record your data:**

Sample #	Color <ul style="list-style-type: none">• dark orange• light orange• clear	Concentration of iron <ul style="list-style-type: none">• high• Low• zero
#1 Concentrated iron		
#2 Distilled water		
#3 Tap Water		
#3 Tap Water Colorimeter test		

4) **Conclusion:**

- After observing the colorimeter test, the concentration of iron in the school's tap water (sample #3) is _____mg/L, which is a _____ high, low or zero concentration of iron.

Is the school's water below the MCL for iron of 0.3 mg/L? Yes / No