TEMPERATURE

Testing time: 1 minute

1. Remove all contents from the white Water Monitoring Kit bucket.
2. Fill the bucket with water from the creek
3. Use the thermometers to measure temperature

DISSOLVED OXYGEN

Testing time: 10 minutes

1. Submerge one of the small tubes (the ones with the black cap) into the bucket. Allow the tube to fill completely and remove, being careful to keep the tube completely full.
2. Carefully drop 2 DO tablets into the tube. The water will overflow a little bit. This is perfectly OK.
3. Screw the black cap on the tube. Make sure there are no bubbles in the tube.
4. Continuously mix the tube by inverting it over and over until the tablets have dissolved. This step should take about 4 minutes.
5. Let the tube sit for 5 minutes.
6. Compare the color of the tube to the Dissolved Oxygen color chart. Record the ppm of which color it is *closest* to.
7. Using the chart below and your temperature reading, find your saturation percentage. For example, if your water is 16 ^{o}C and your DO is 4 ppm, your water is 41% saturated with oxygen. That is, your water is holding 41% of the maximum amount of oxygen possible at that temperature.

Temp ^{o}C	0 ppm	4 ppm	8 ppm
2	0	29	58
4	0	31	61
6	0	32	64
8	0	34	68
10	0	35	71
12	0	37	74
14	0	39	78
16	0	41	81
18	0	42	84
20	0	44	88
22	0	46	92
24	0	48	95
26	0	49	99
28	0	51	102
30	0	53	106

PHOSPHATE

Testing time: 5 minutes

1. Fill one of the large plastic test tubes to the 10mL line with the water from the source you are testing.
2. Add one PHOS WR tab.
3. Cap the tube and mix by inverting until the tab has disintegrated. Don't worry if there are some small bits of the tab left.
4. Wait 5 minutes for the blue color to develop.
5. Compare the color of the sample to the color phosphate color chart. If the sample does not turn blue, the result is 0 ppm.
6. Record your result.

pH

Testing time: 1 minute

1. Fill one of the large plastic test tubes to the 10mL line with the water from the source you are testing.
2. Add one pH WR tab.
3. Cap the tube and mix by inverting until the tab has disintegrated. Don't worry if there are some small bits of the tab left.
4. Compare the color of the sample to the pH color chart.
5. Record your result.

TURBIDITY

Testing time: 1 minute

1. Hold the turbidity chart on the top edge of the white bucket. Looking down in the bucket, compare the appearance of the white and black disk in the jar to the one on the chart.
2. Record your result.