

Appendix D: Water Quality Profile I Charts – Bons Creek Monitoring Stations



Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

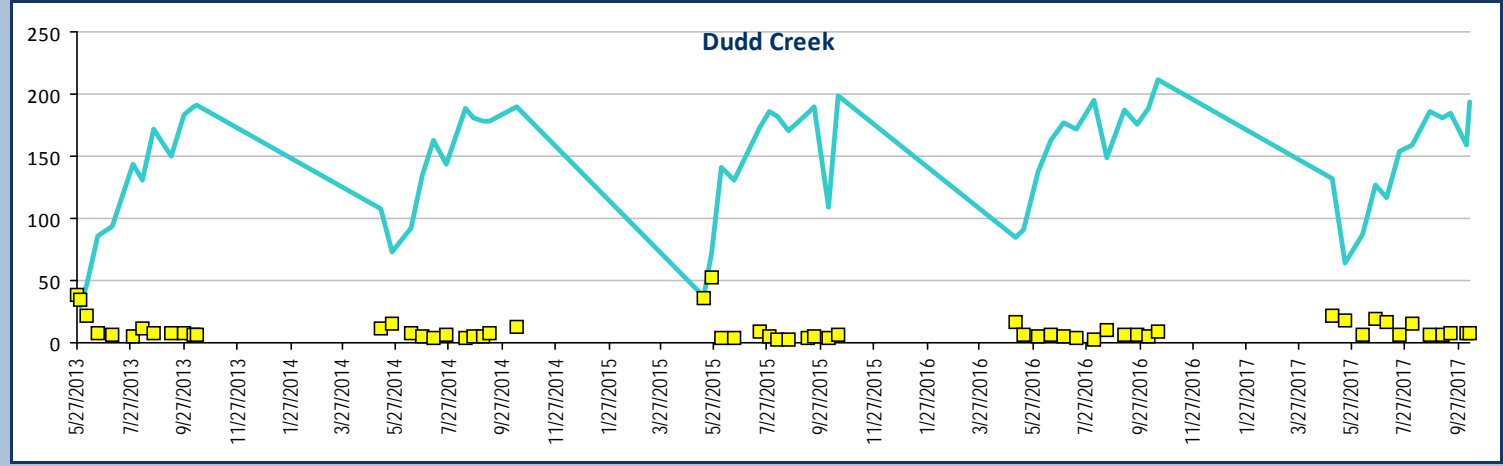
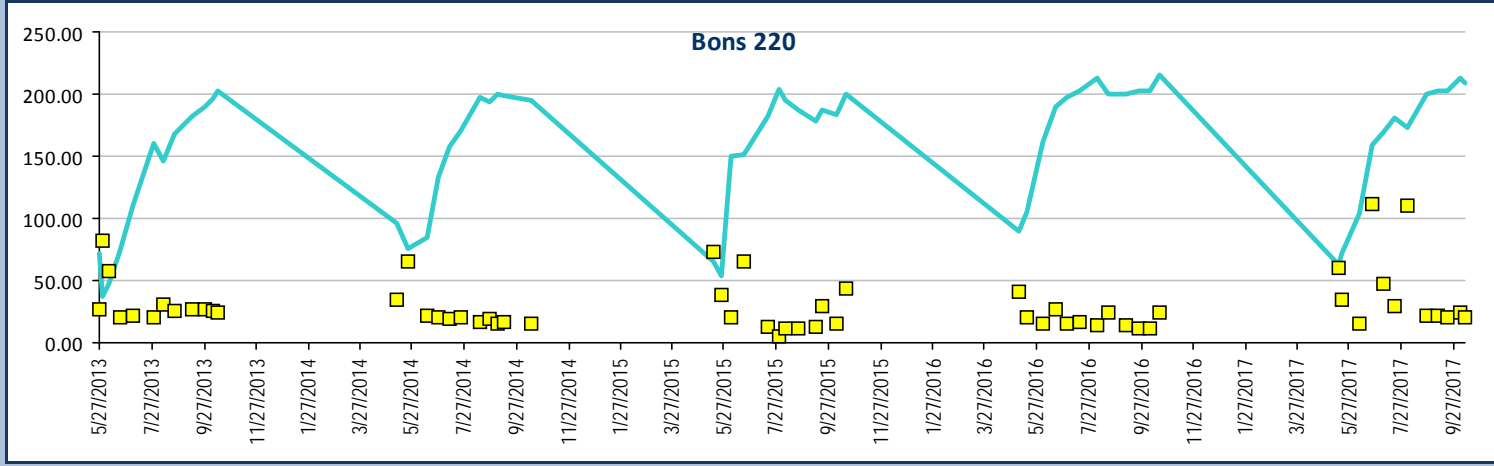
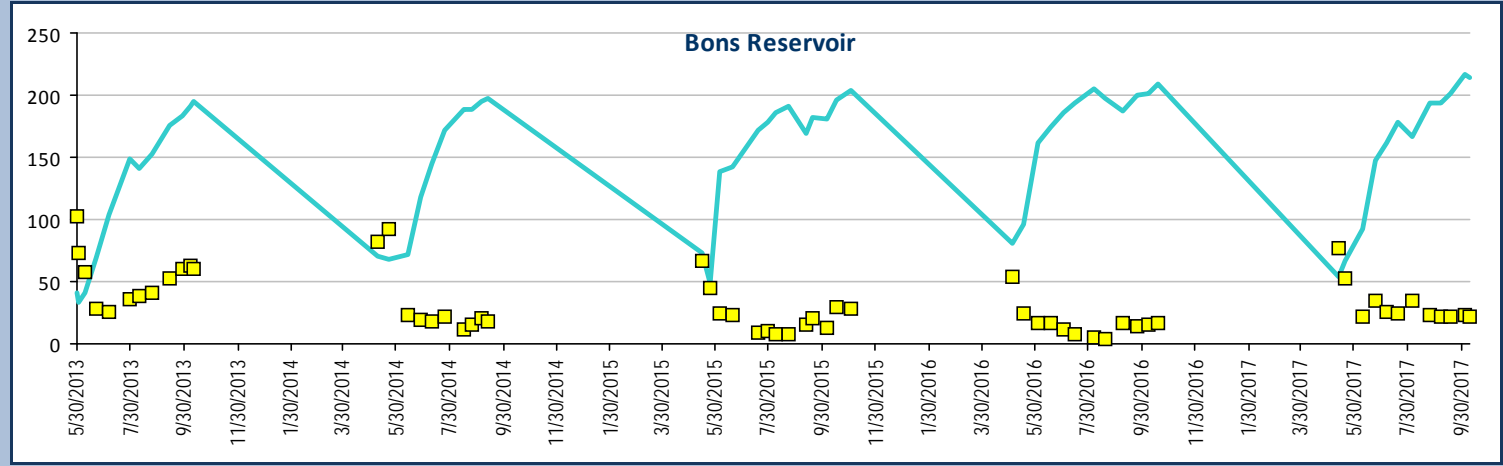
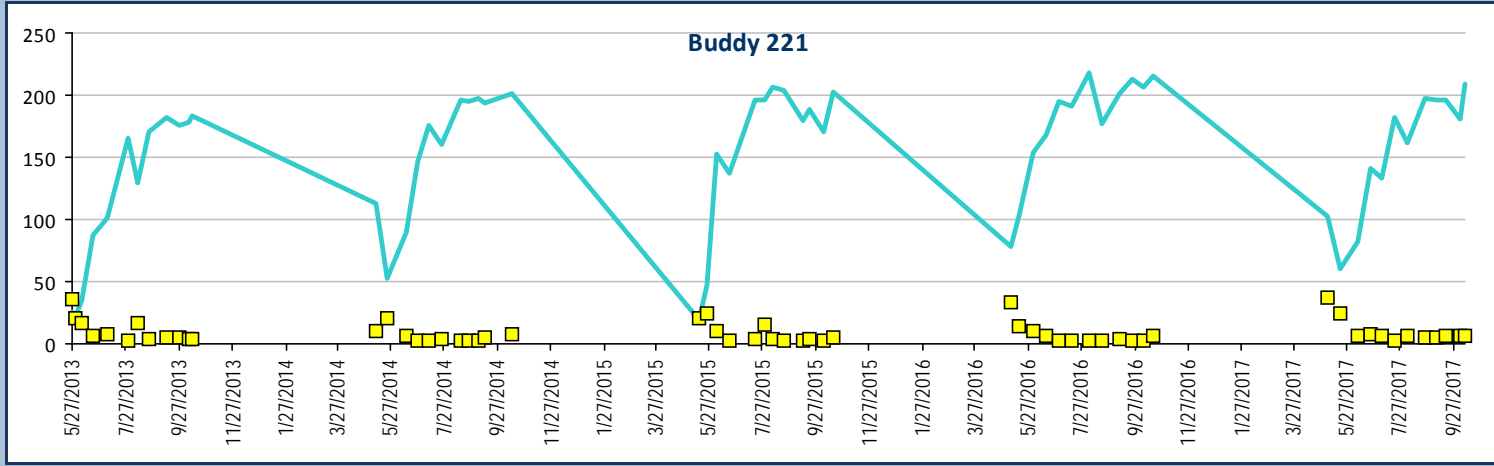
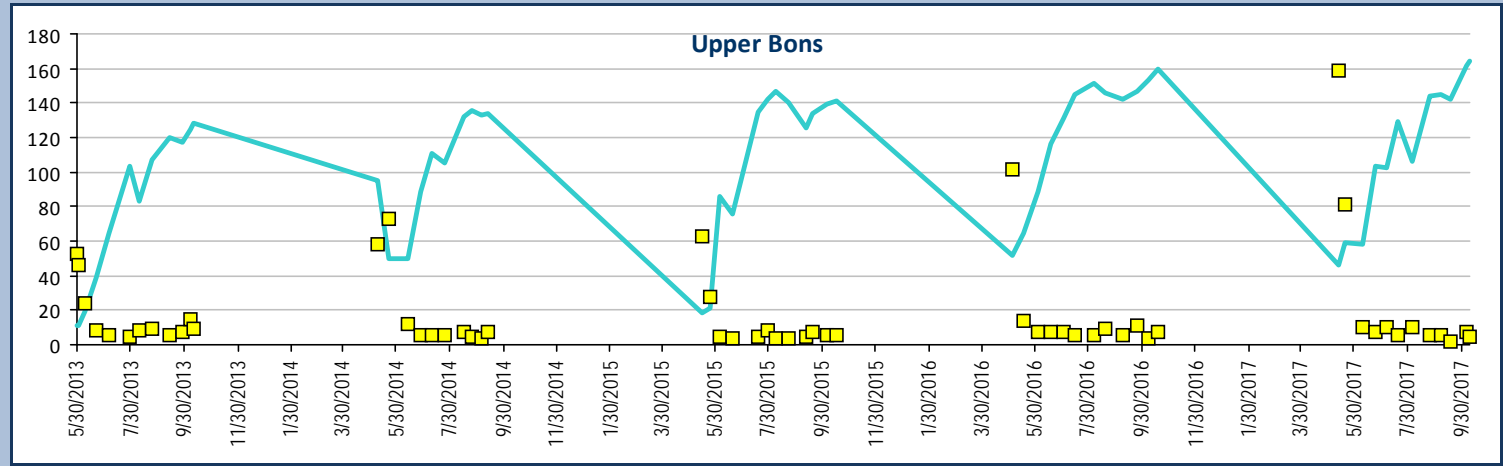
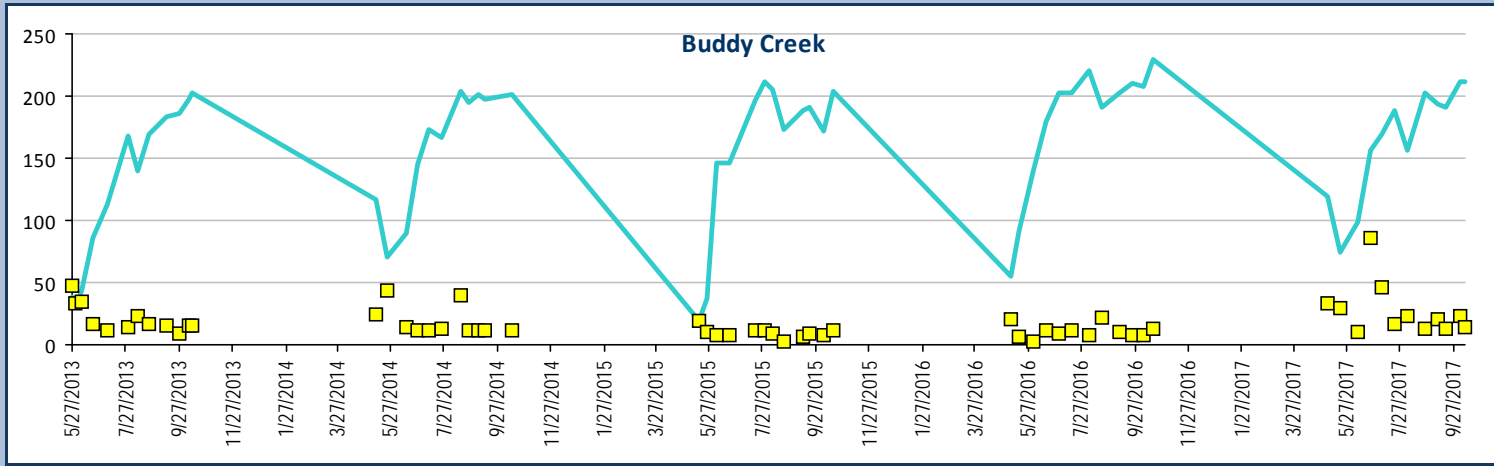
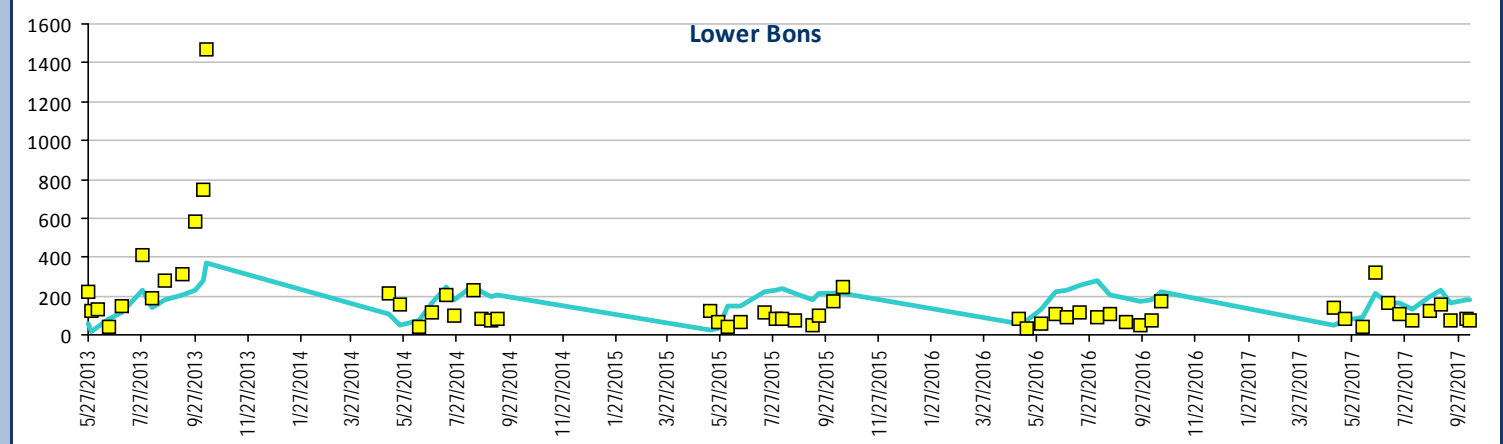
Zinc, Total Recoverable, units ug/L

Aquatic Life - Fresh Water Acute WQS ug/L

Hardness Dependent Calculation

$$=EXP(0.8473*(LN(*hardness))+0.884)$$

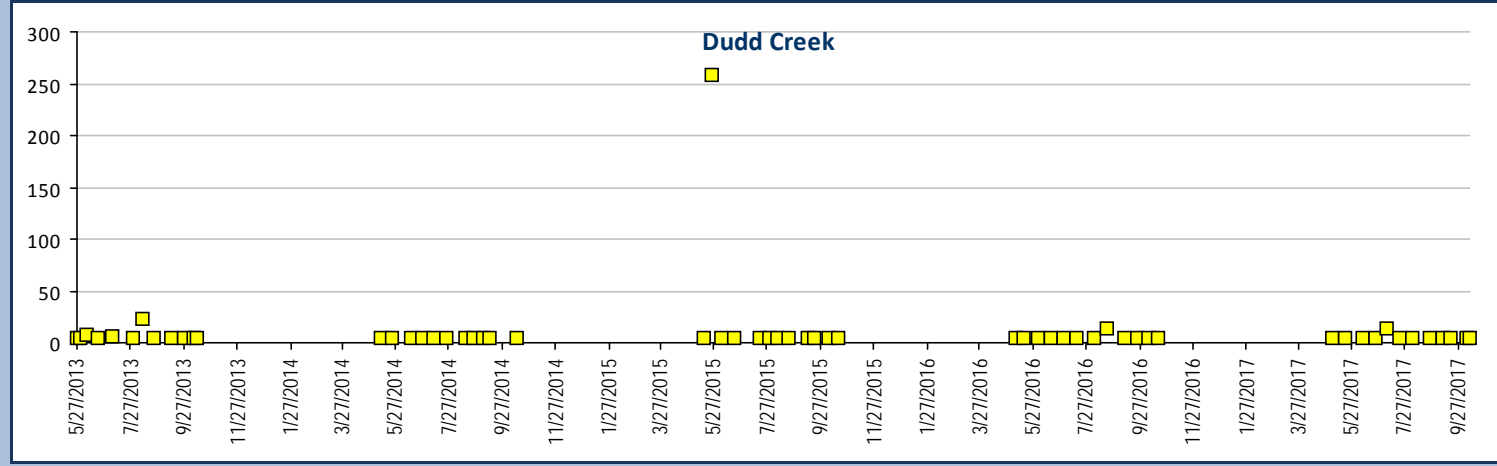
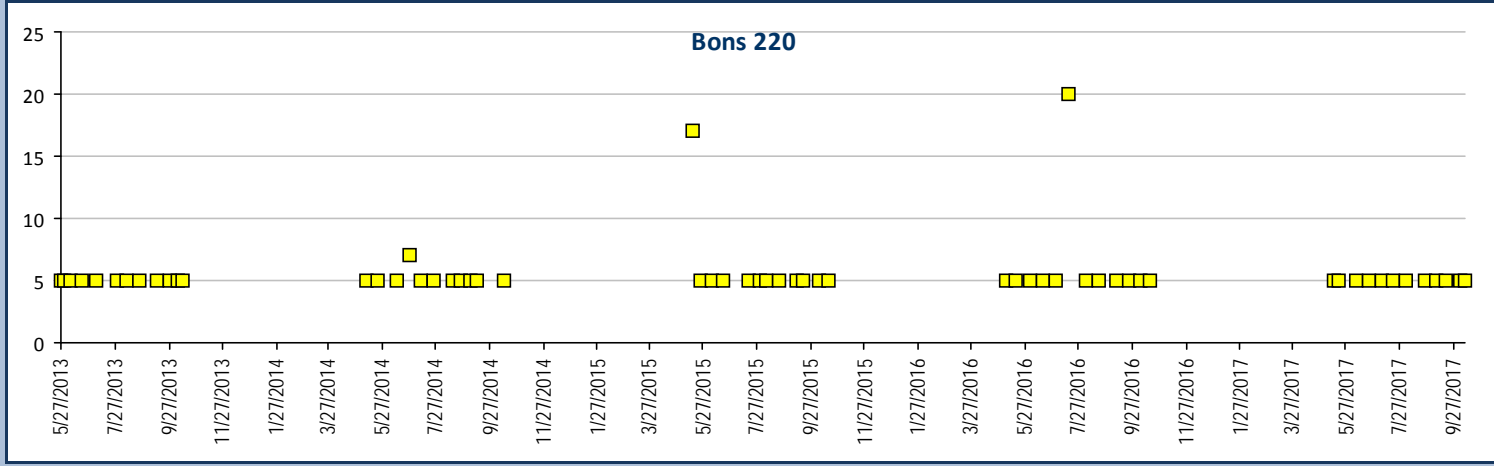
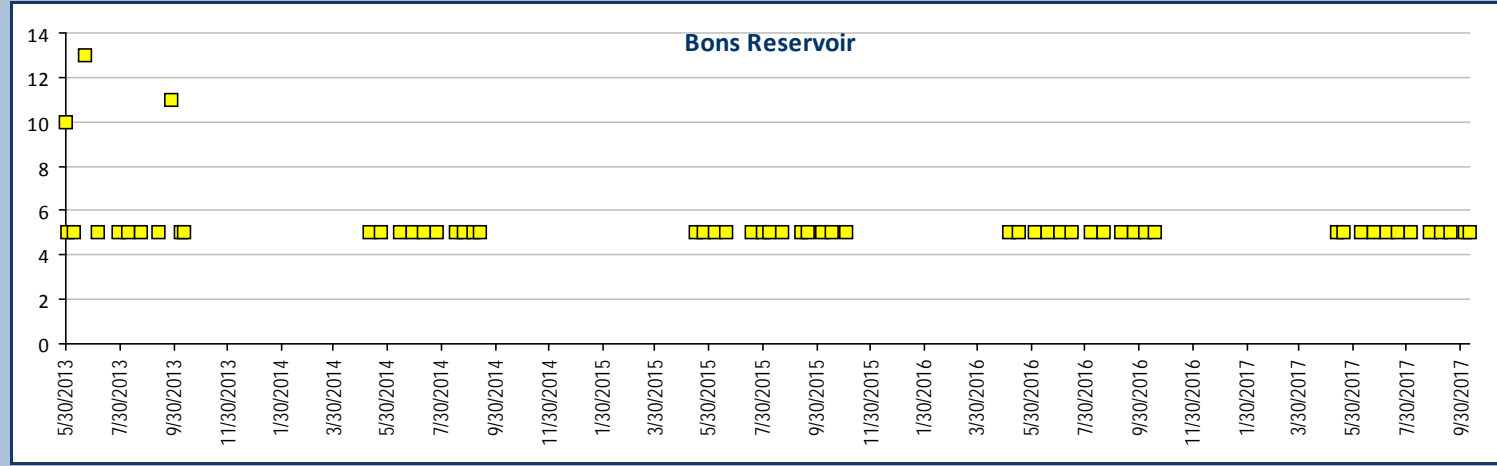
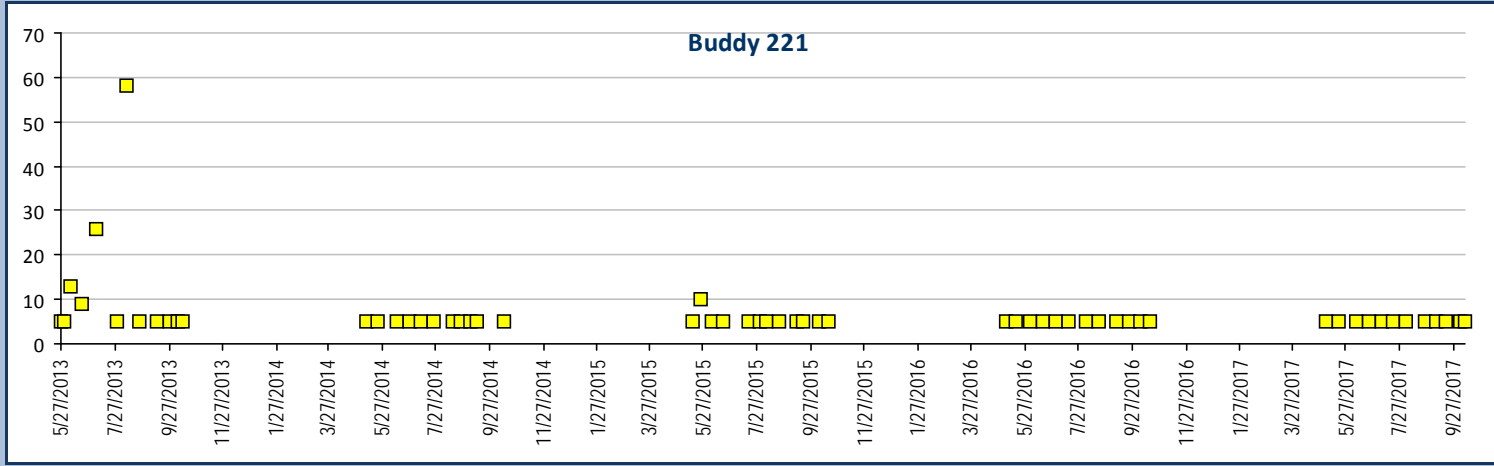
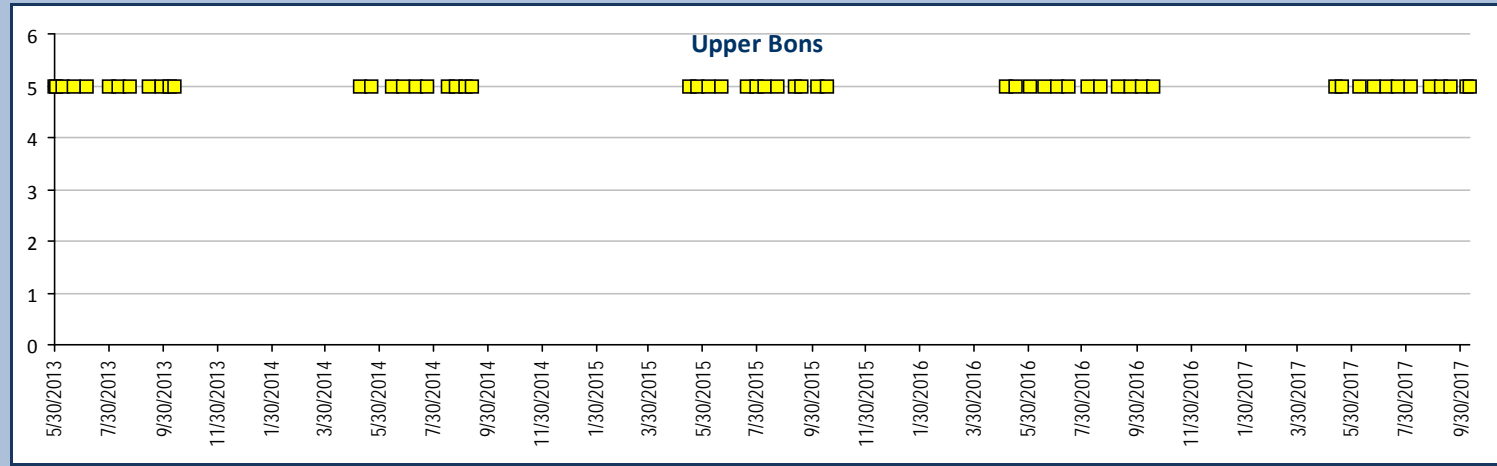
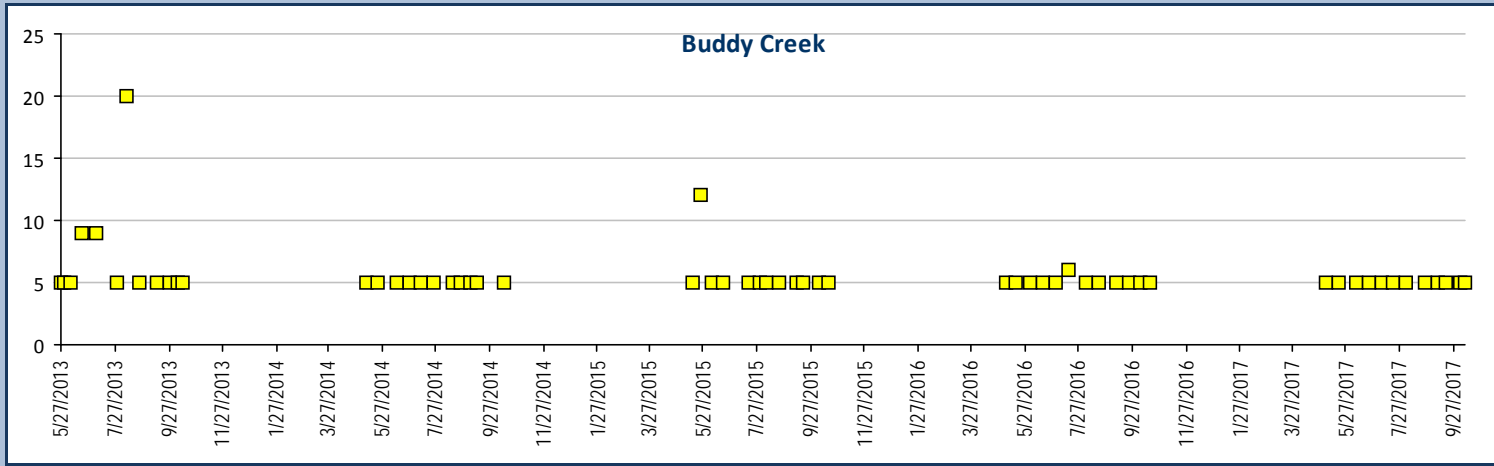
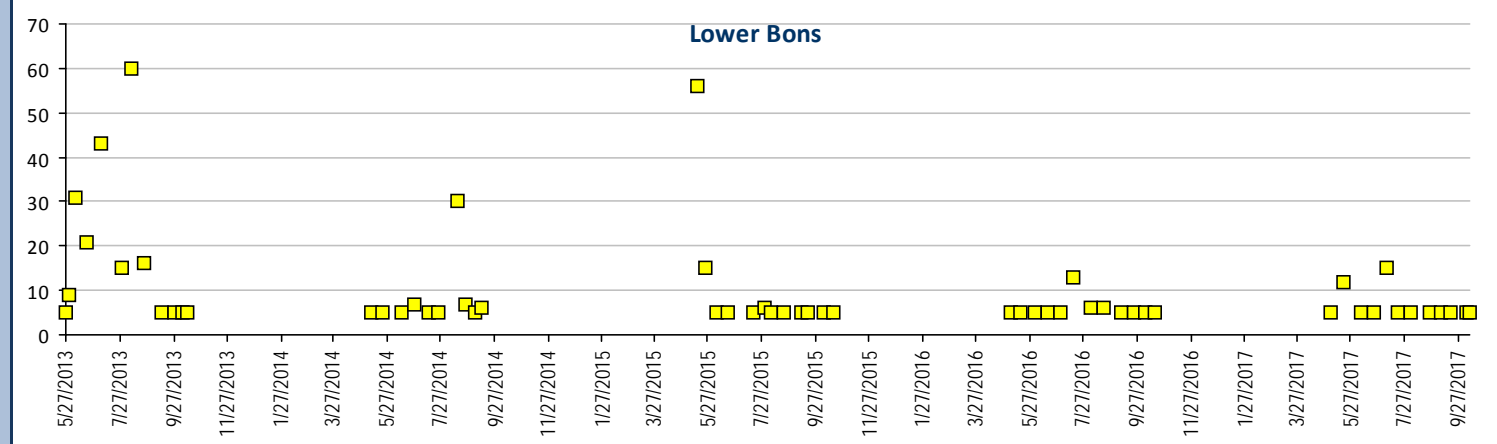
* Calculated using Standard Methods 2340B





Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Total Suspended Solids, units mg/L



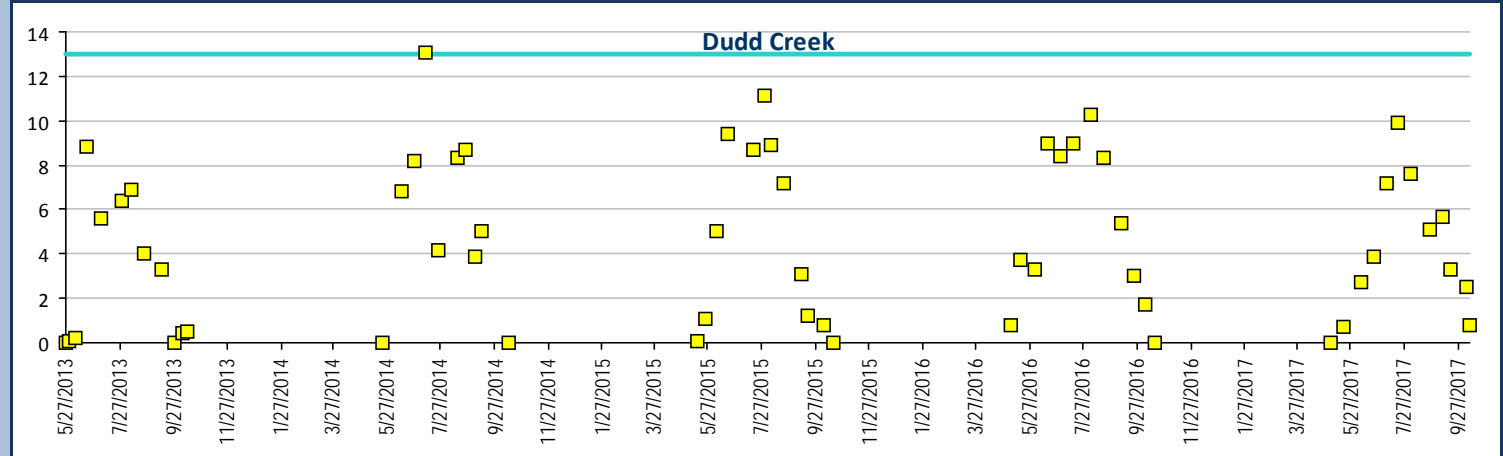
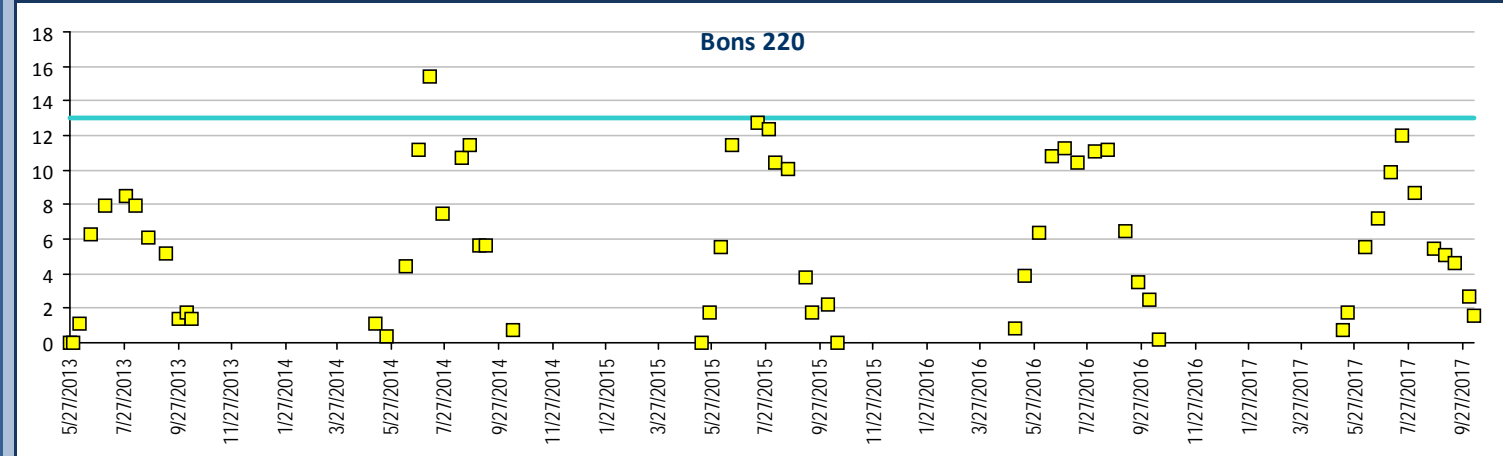
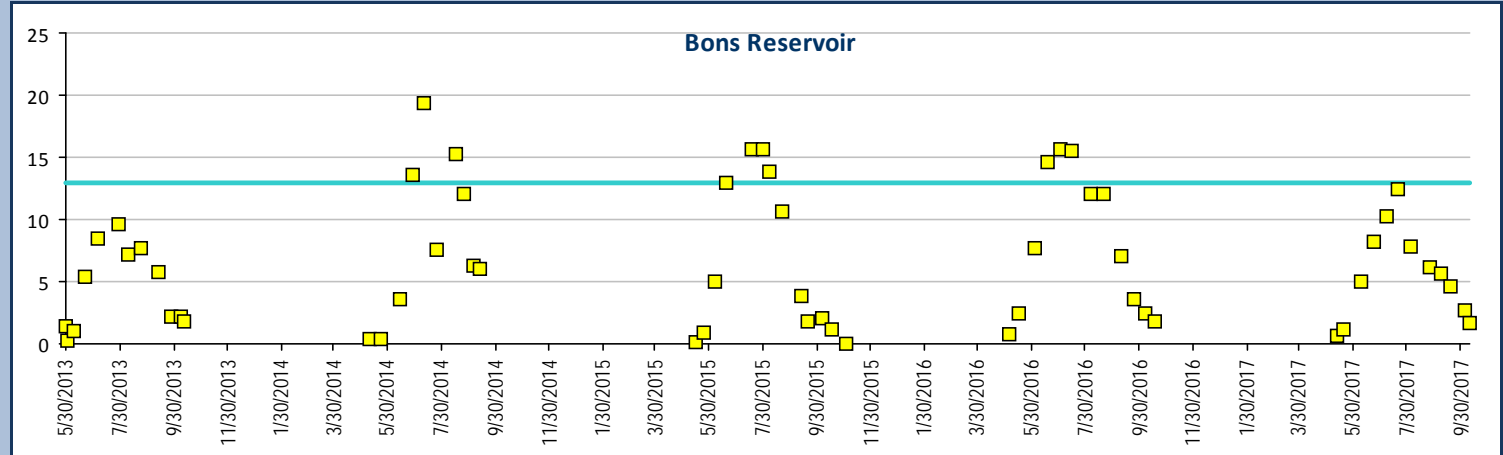
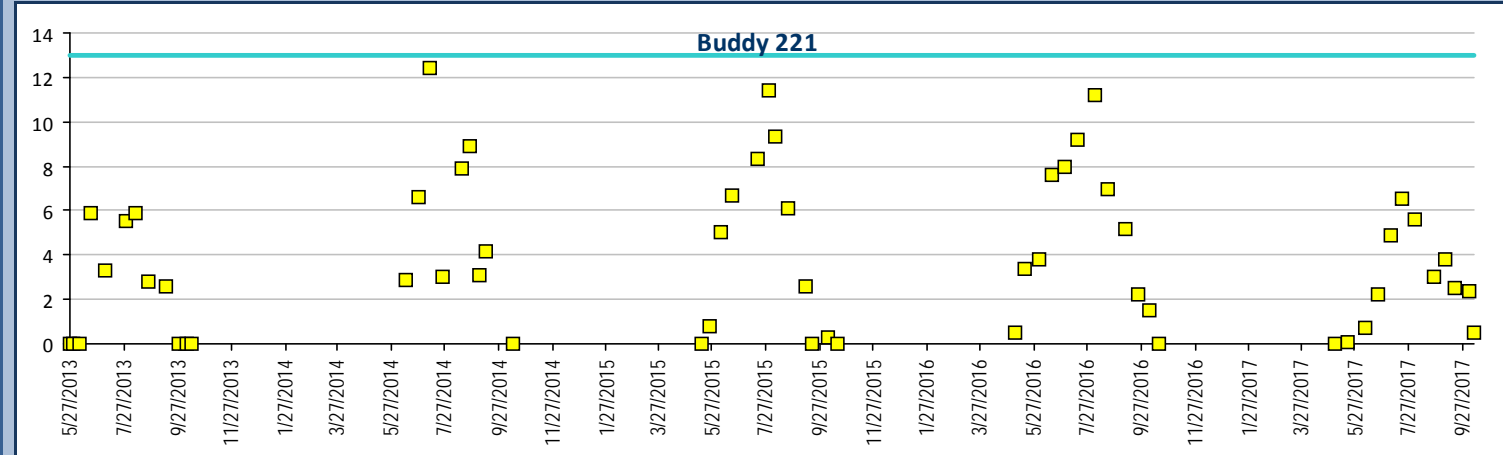
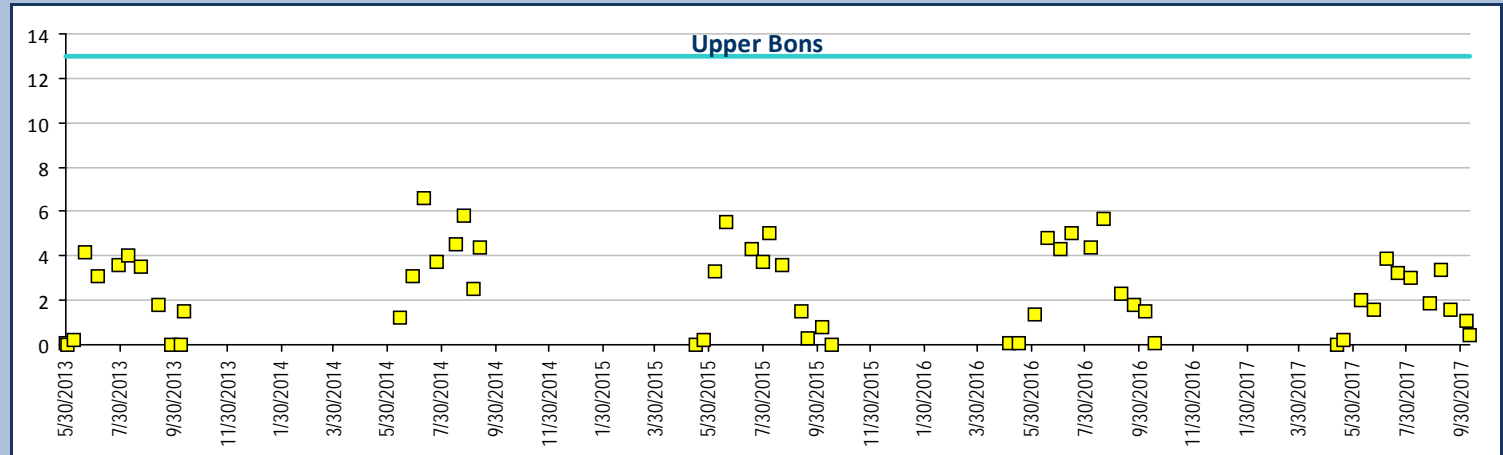
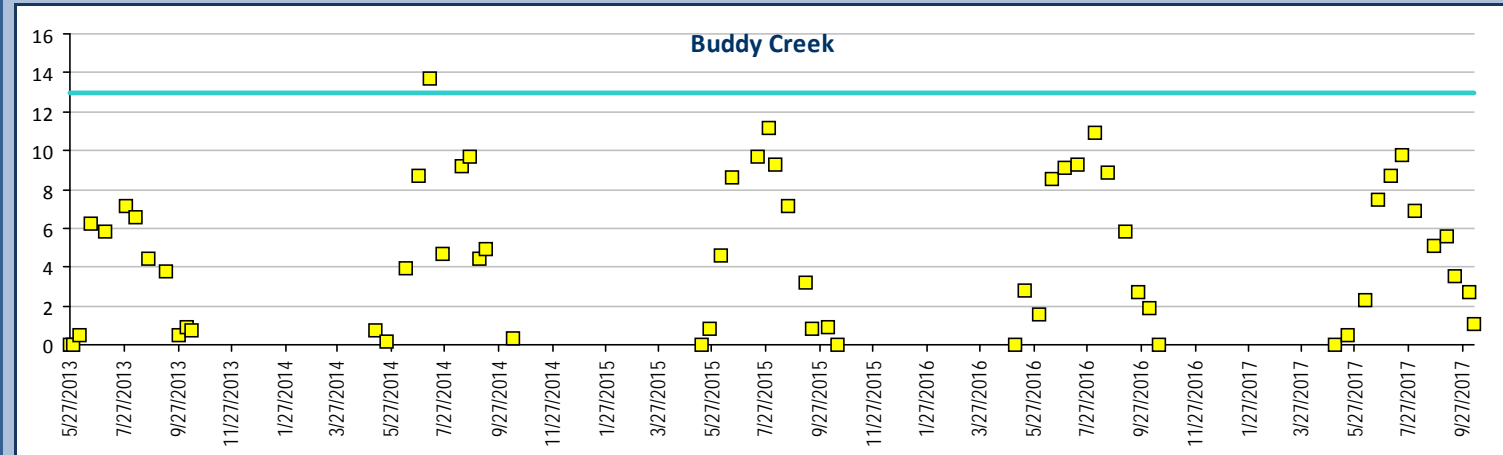
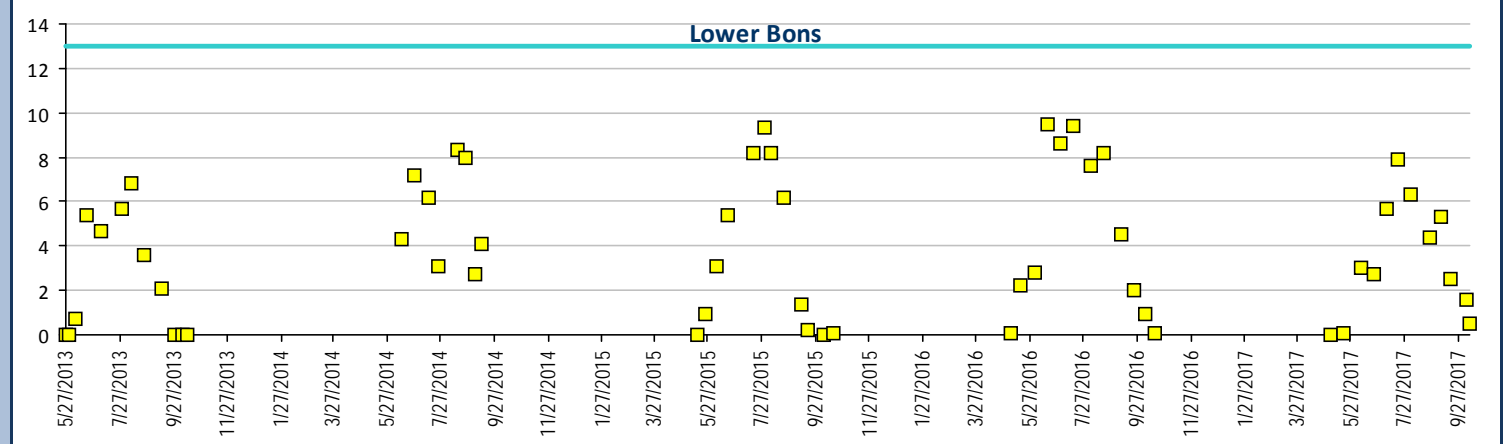


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Temperature Field, units Celsius

Site Specific WQS mg/L

13 Celsius



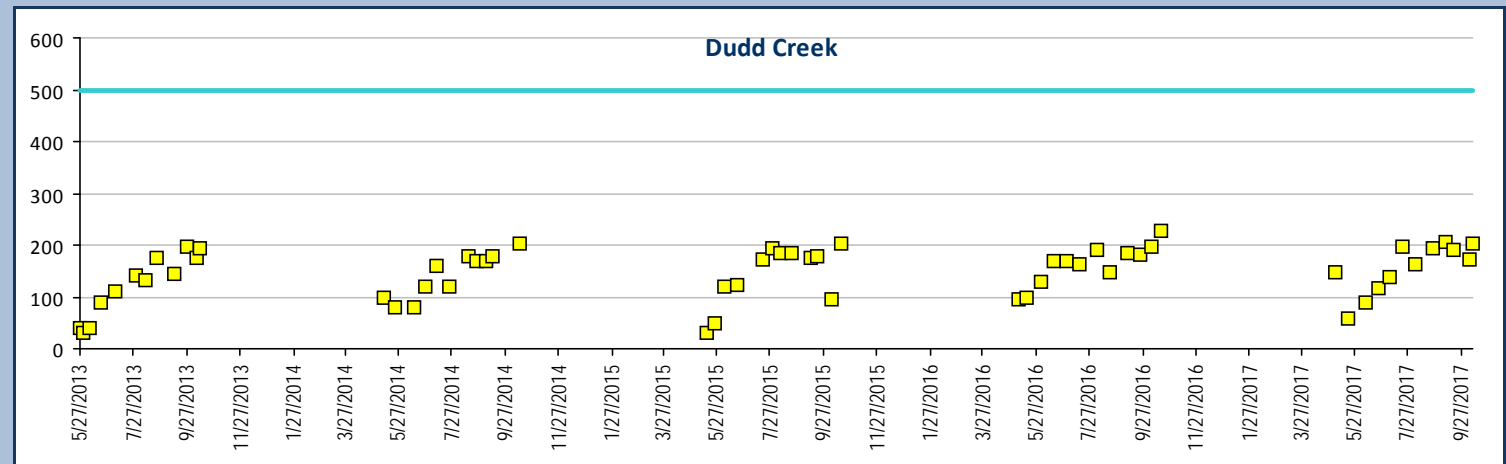
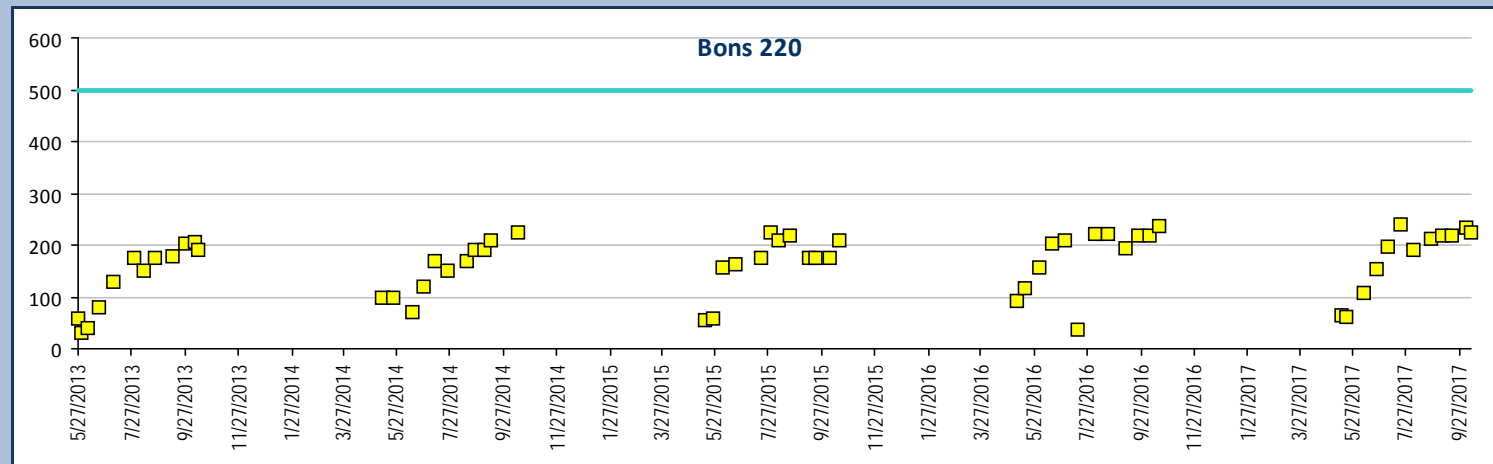
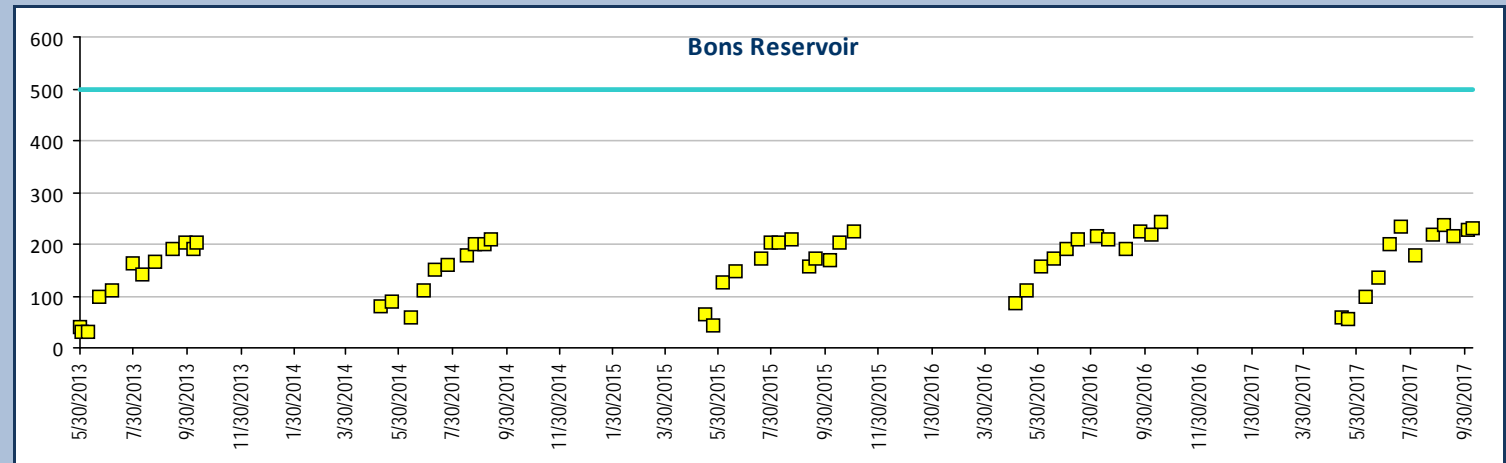
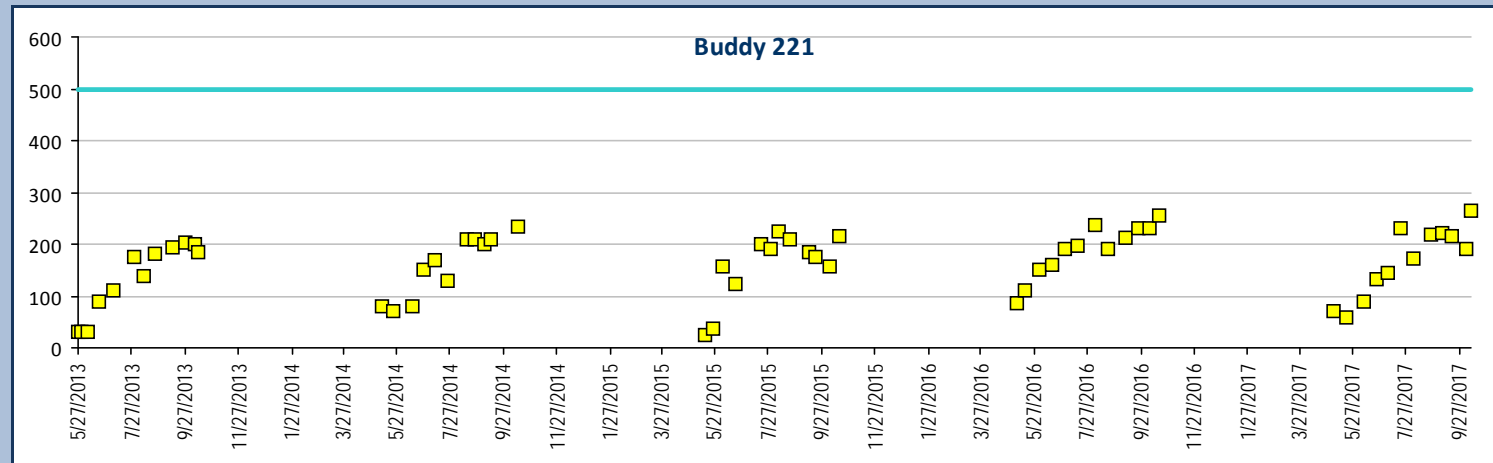
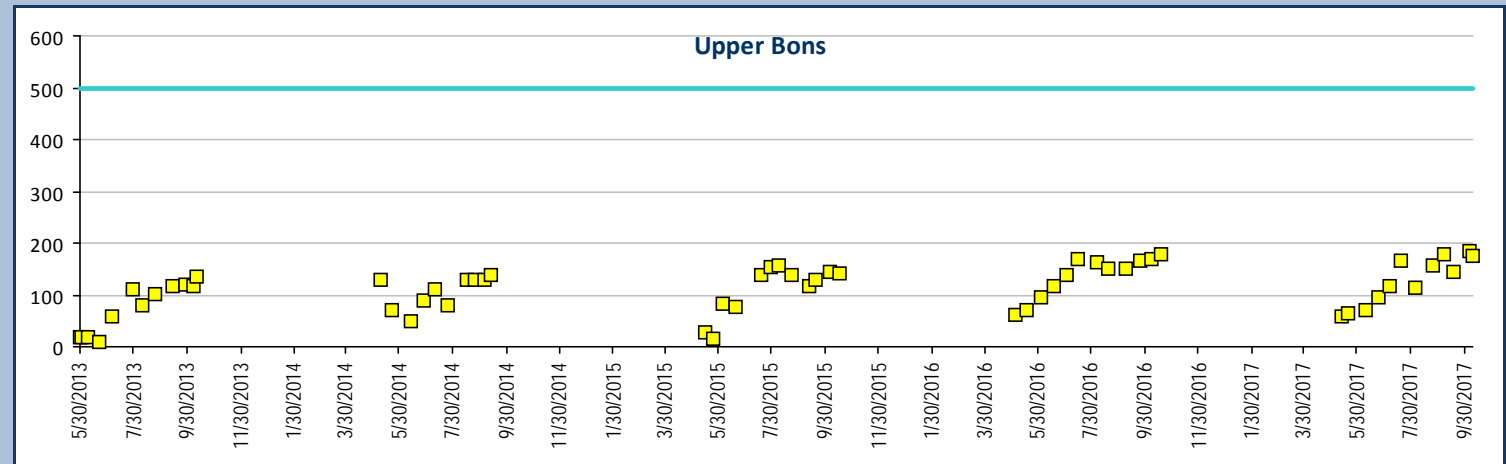
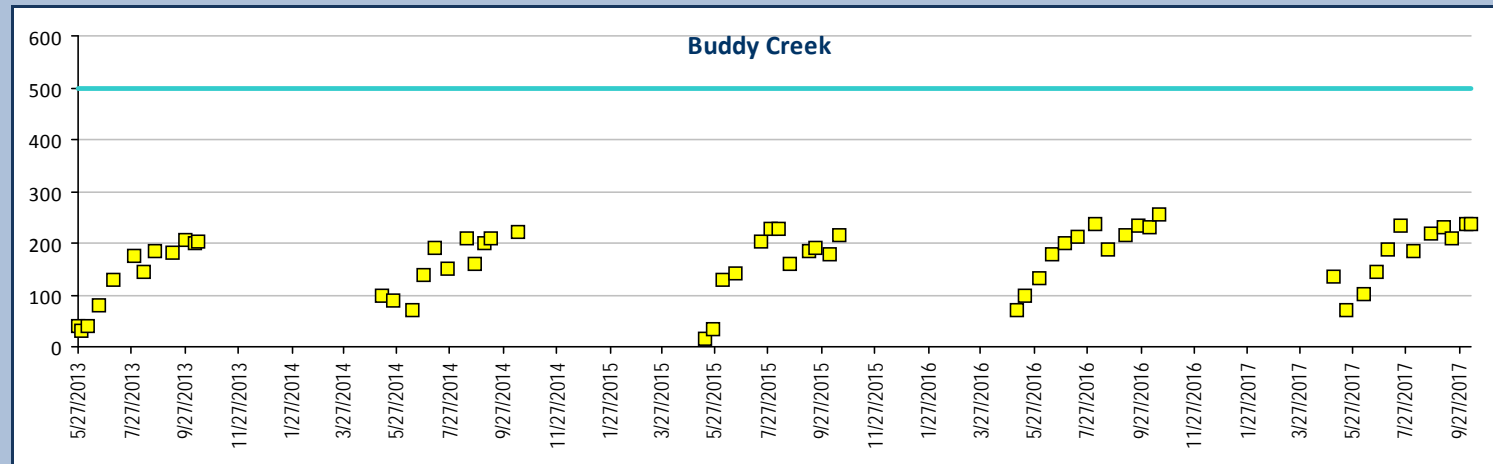
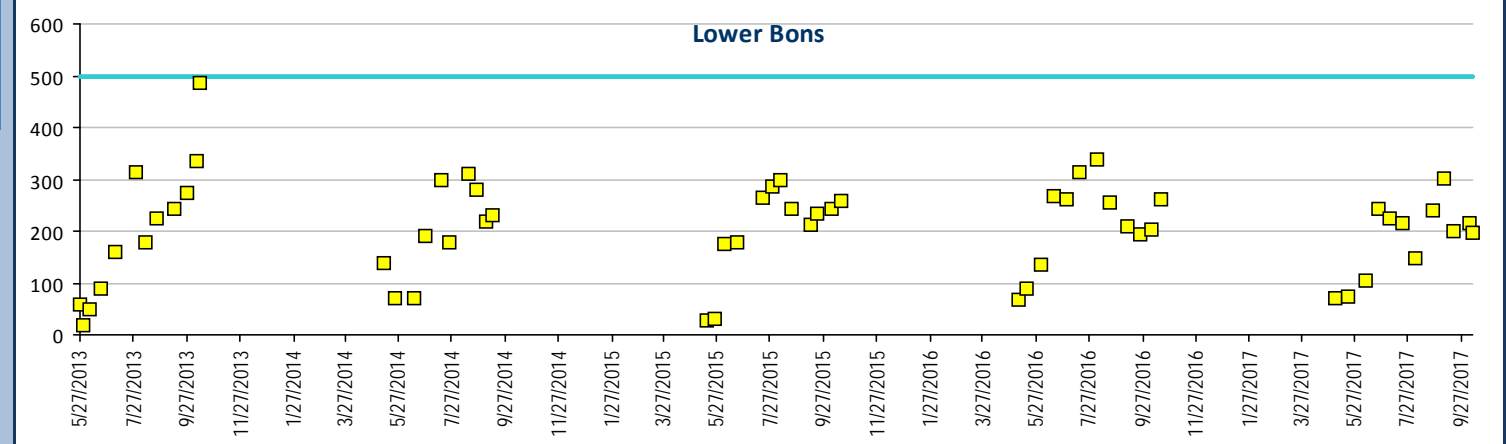


Water Monitoring Bons Creek Drainage Water Quality Profile I , 5-Year Trend Charts

Total Dissolved Solids, units mg/L

Site Specific WQS mg/L

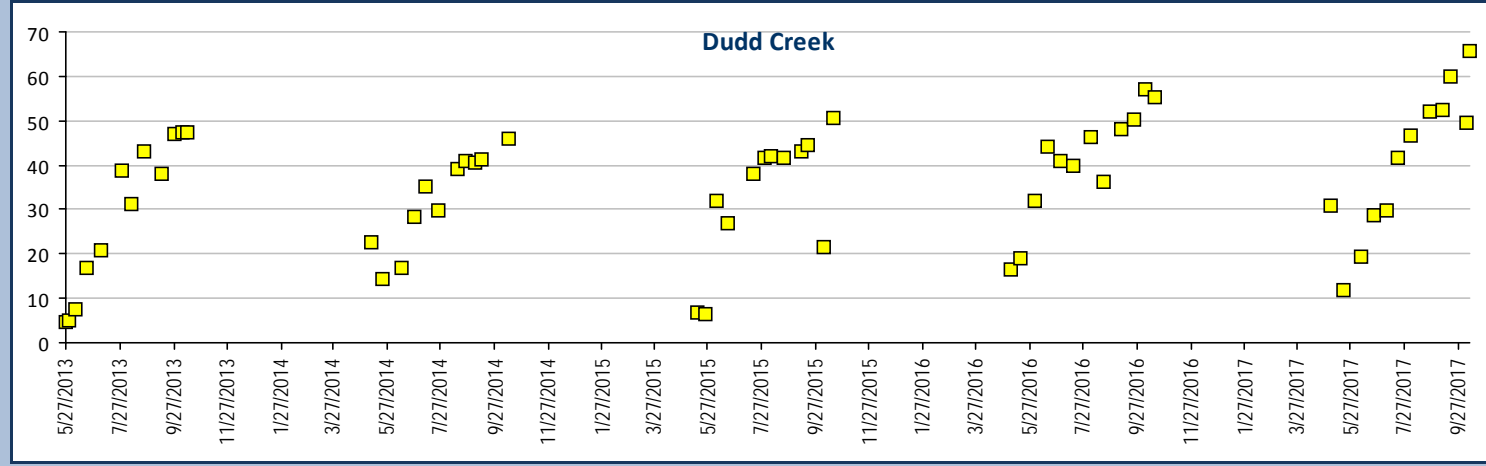
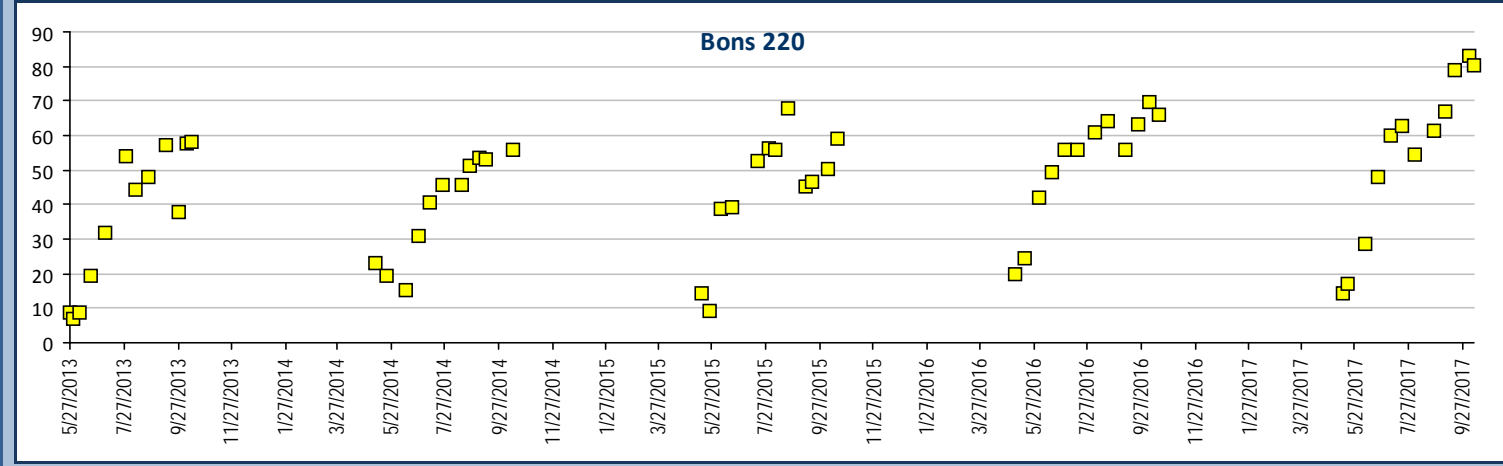
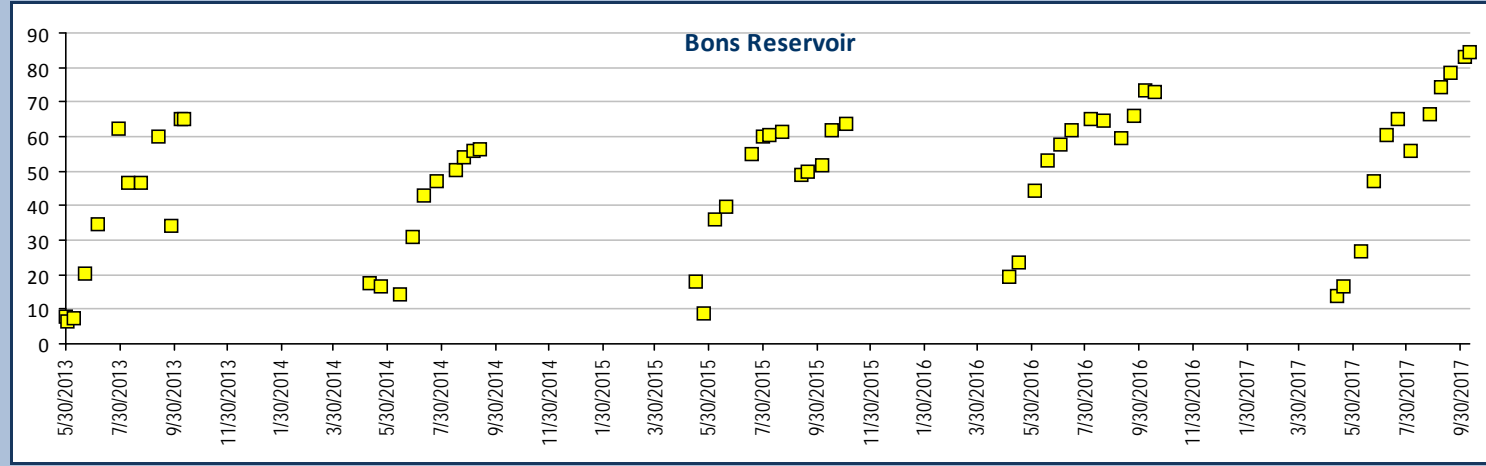
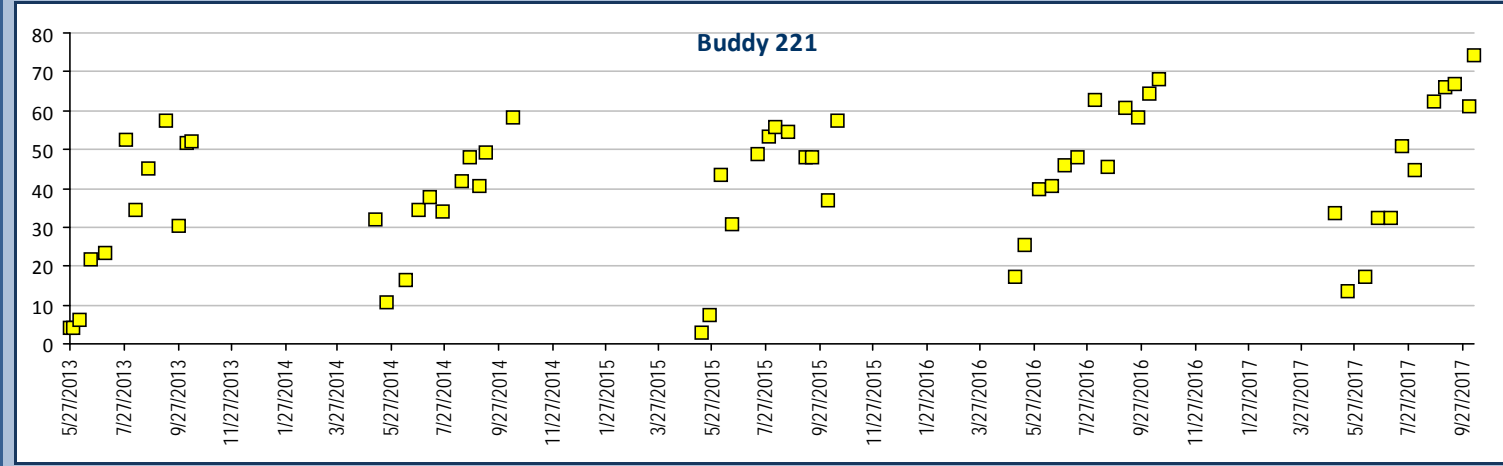
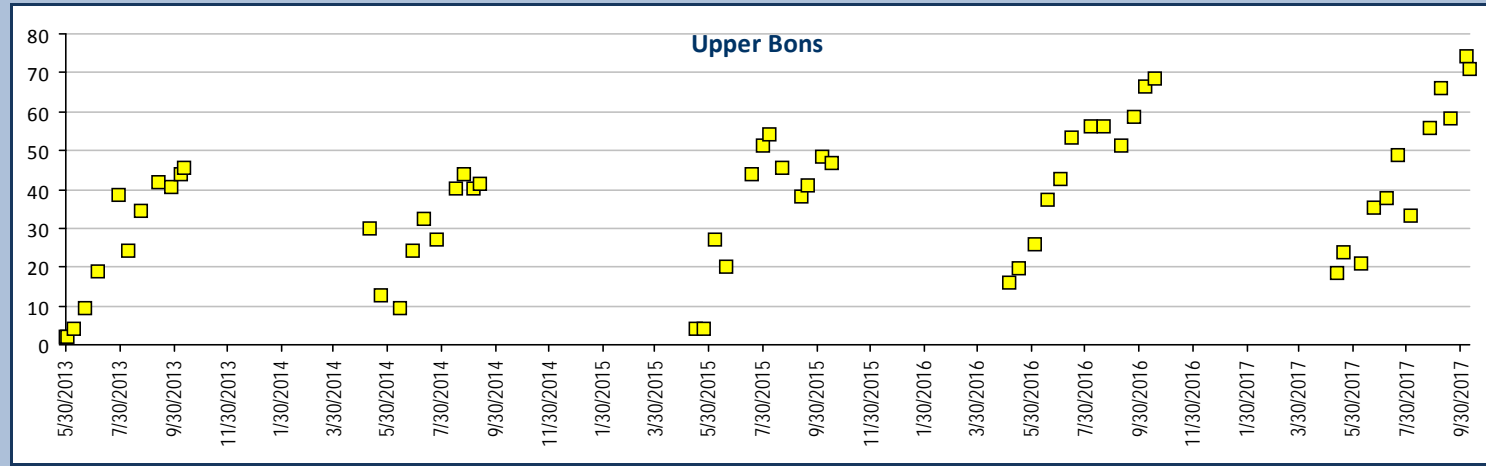
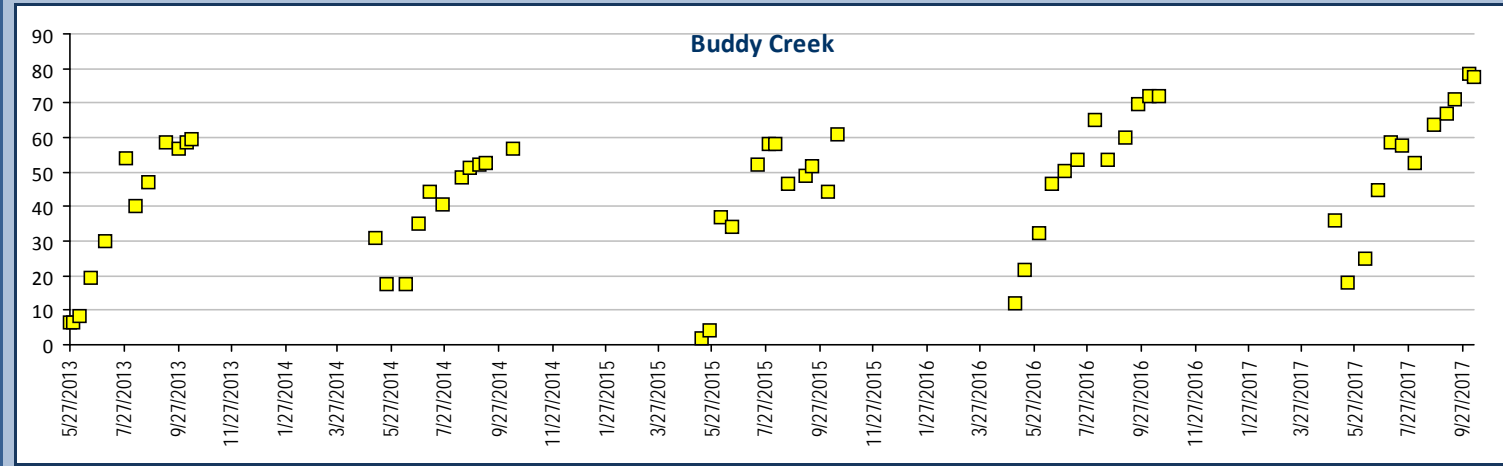
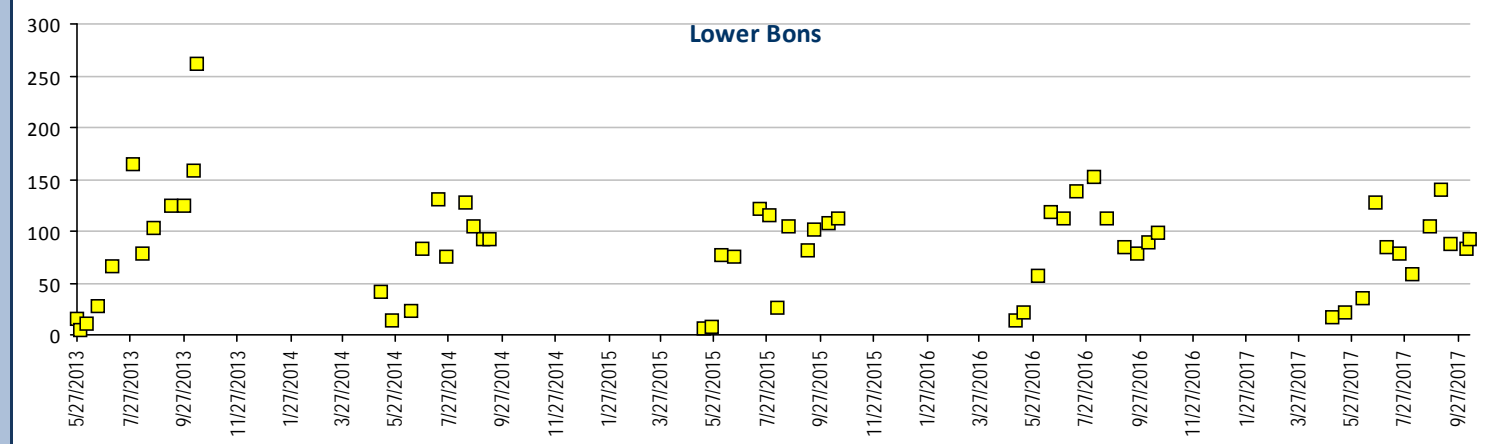
500 mg/L





Water Monitoring Bons Creek Drainage Water Quality Profile I , 5-Year Trend Charts

Sulfate, Total recoverable, units mg/L



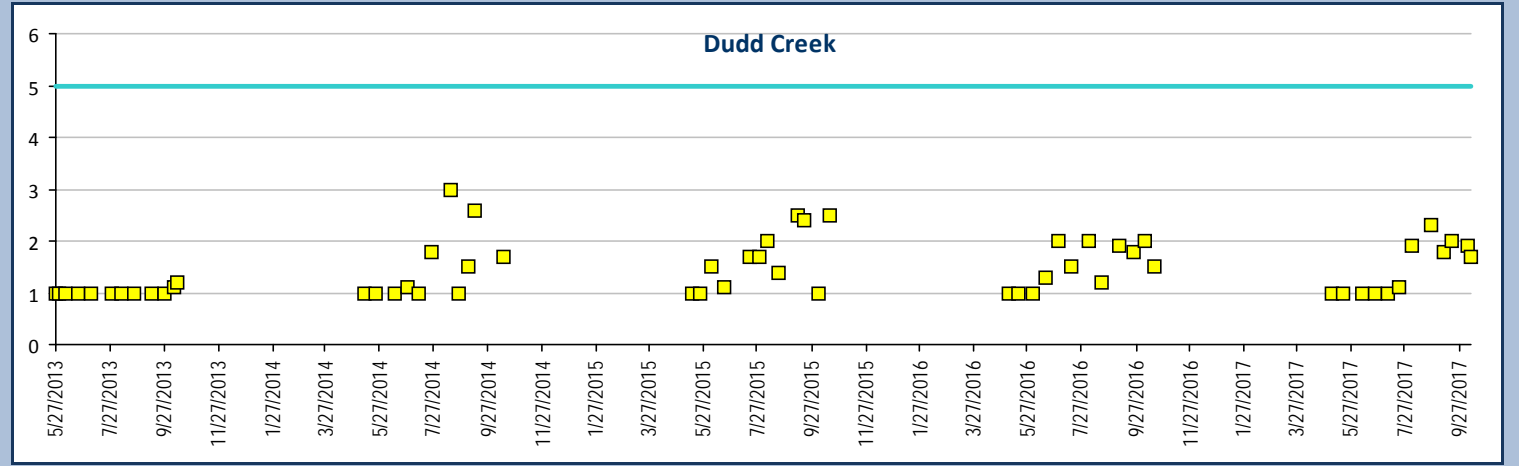
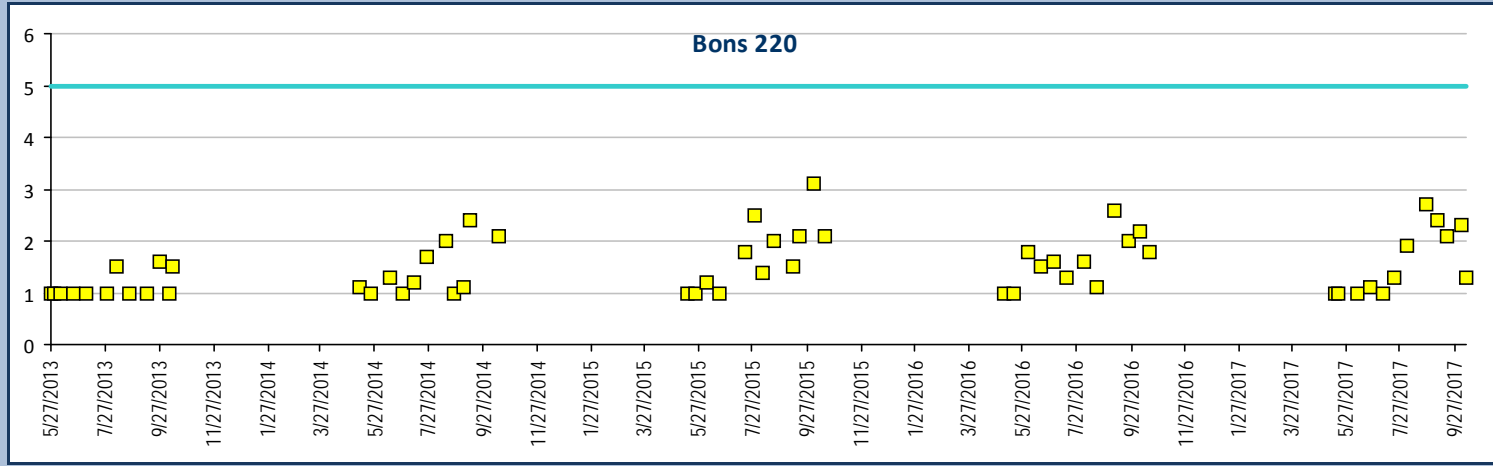
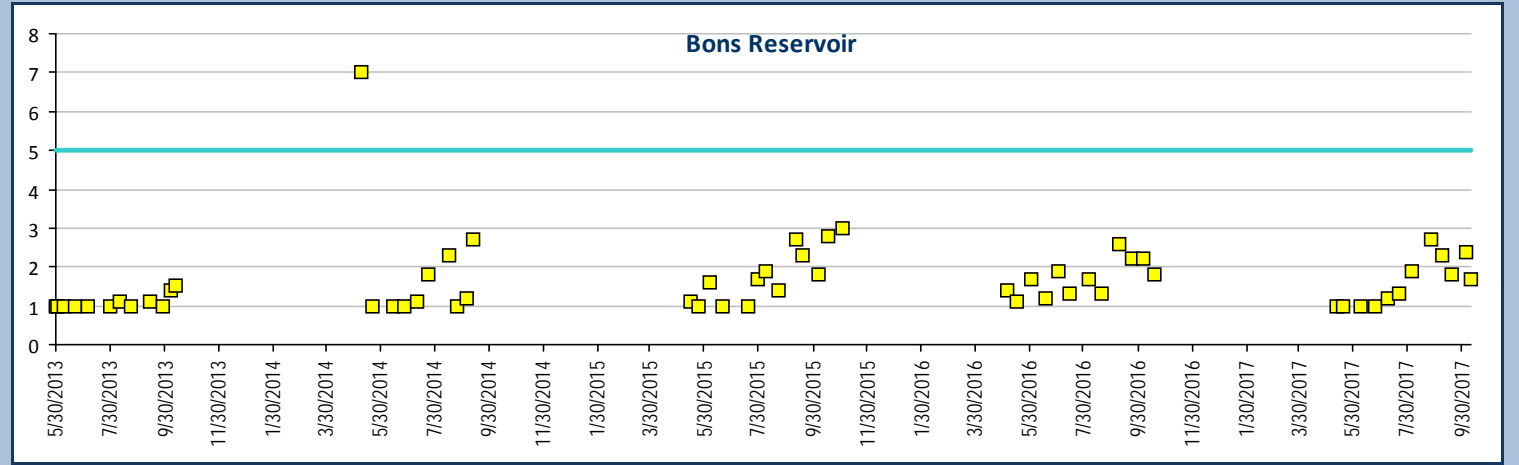
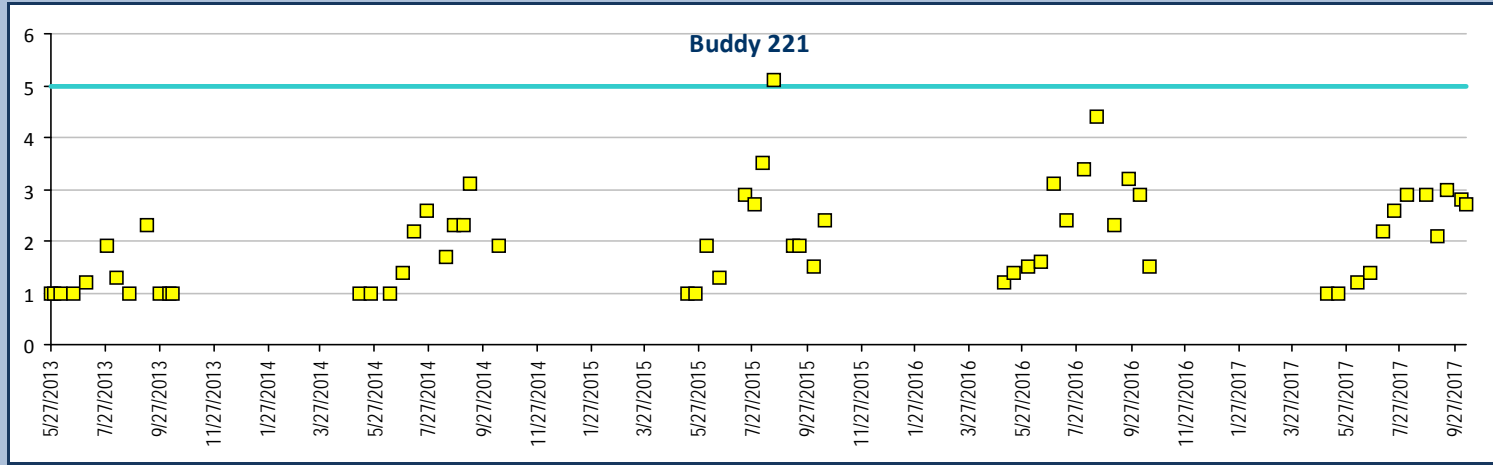
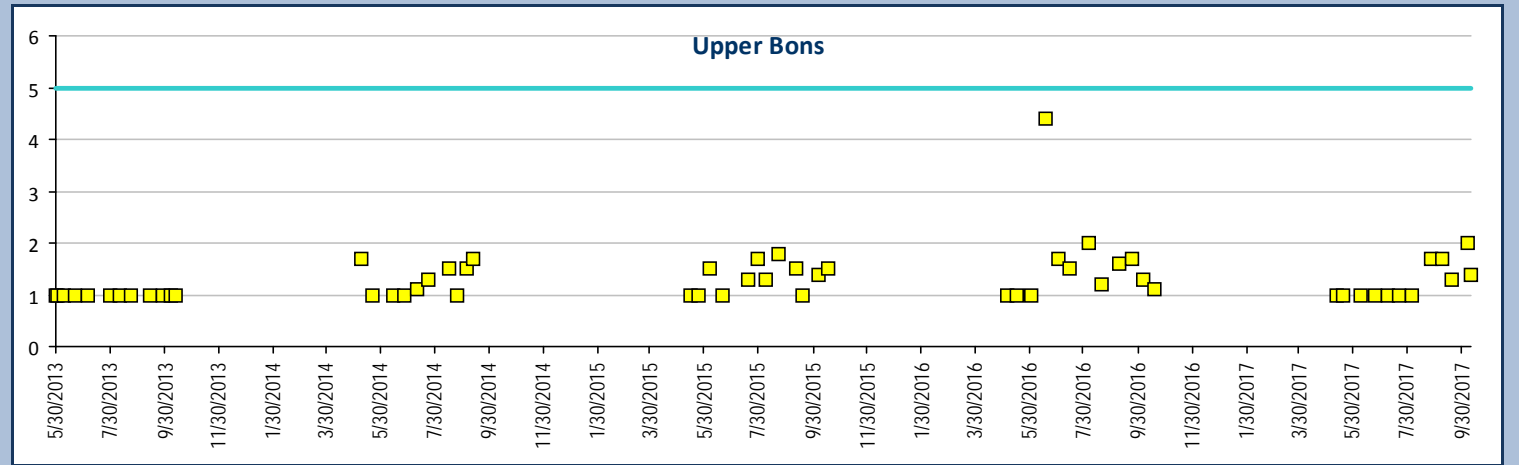
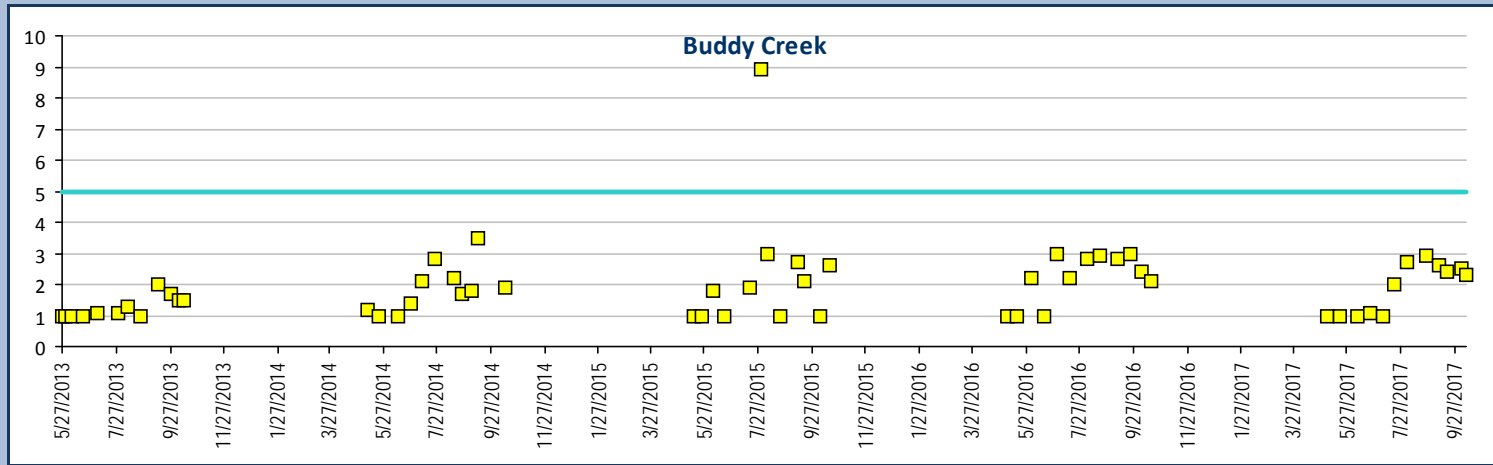
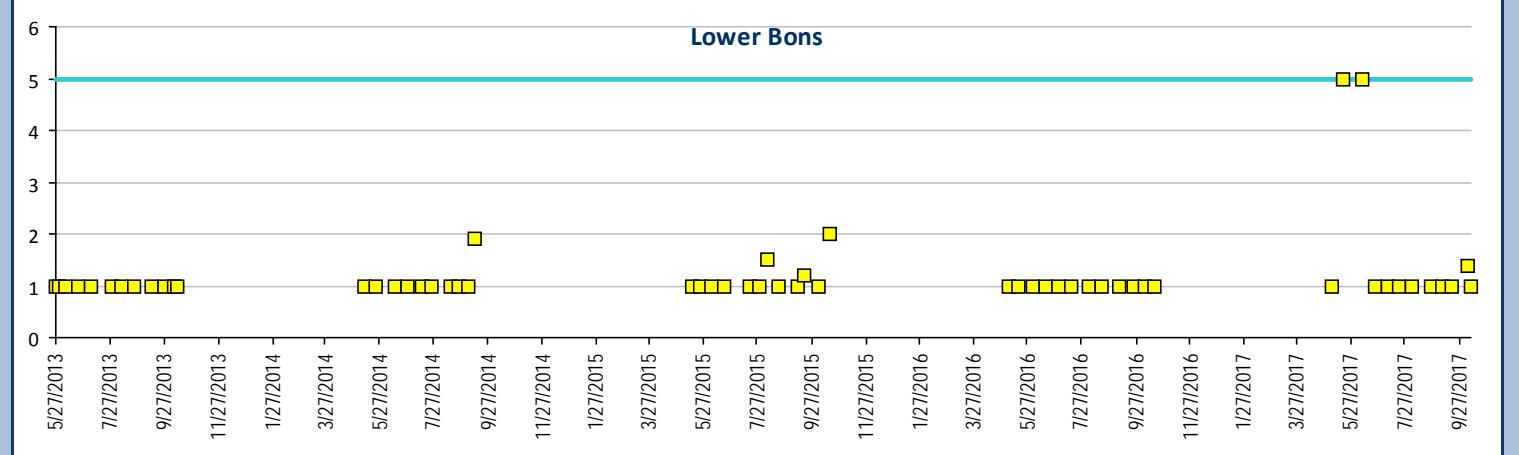


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Selenium, Total Recoverable, units ug/L

Aquatic Life - Fresh Water Chronic WQS ug/L

5 ug/L

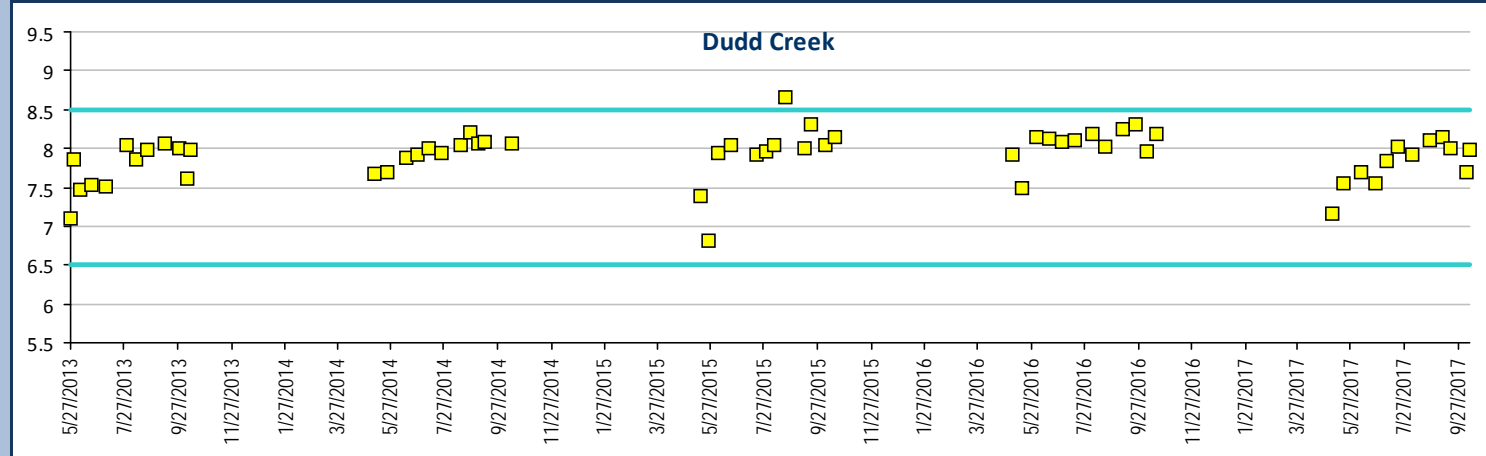
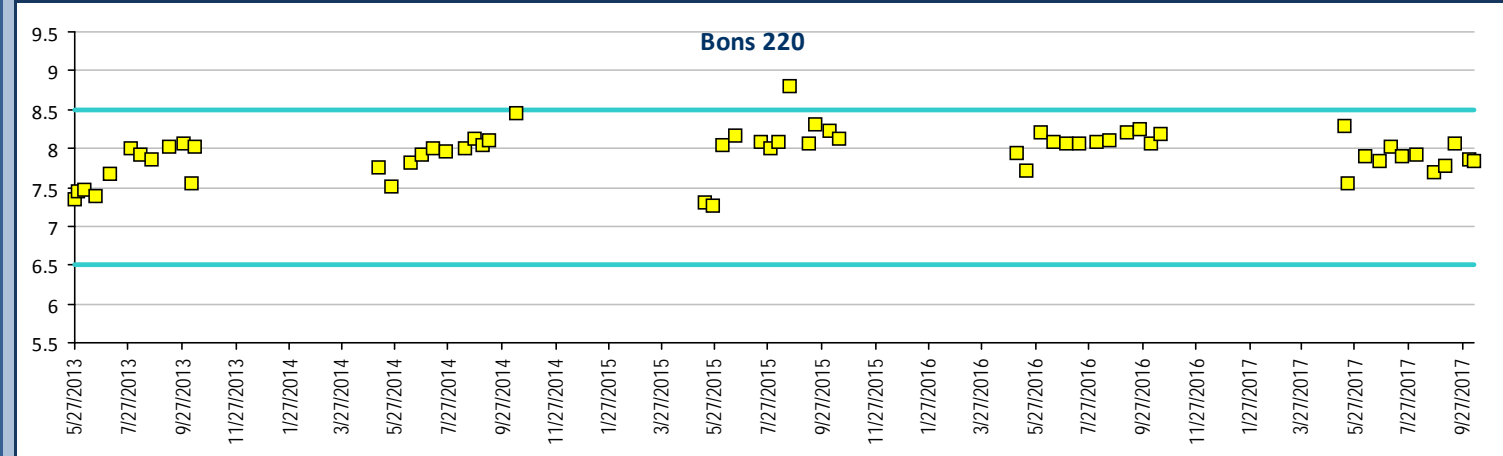
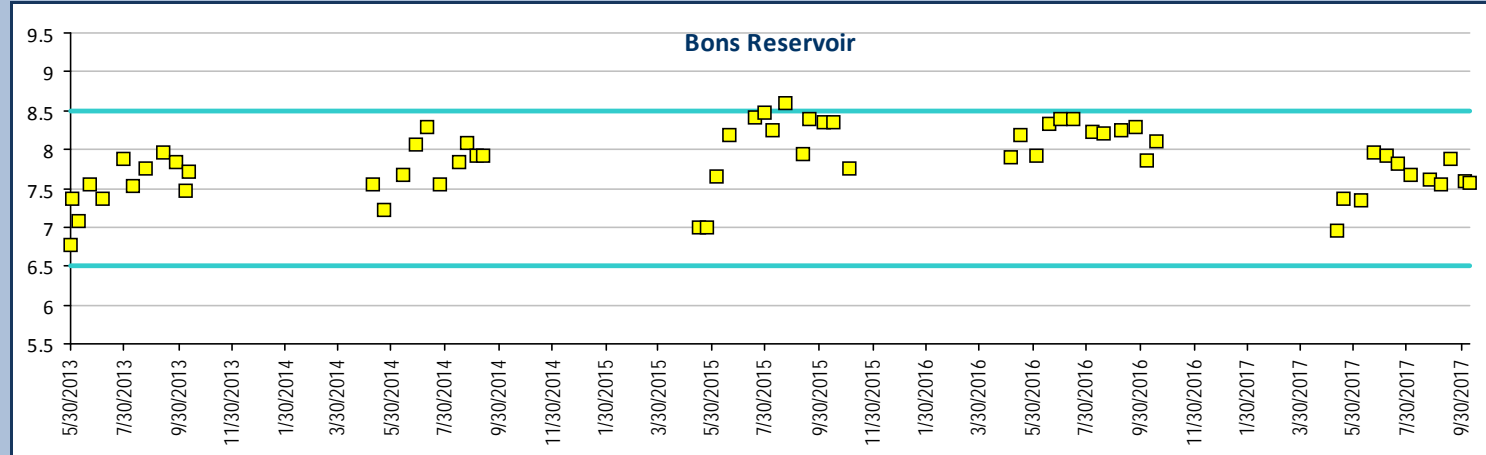
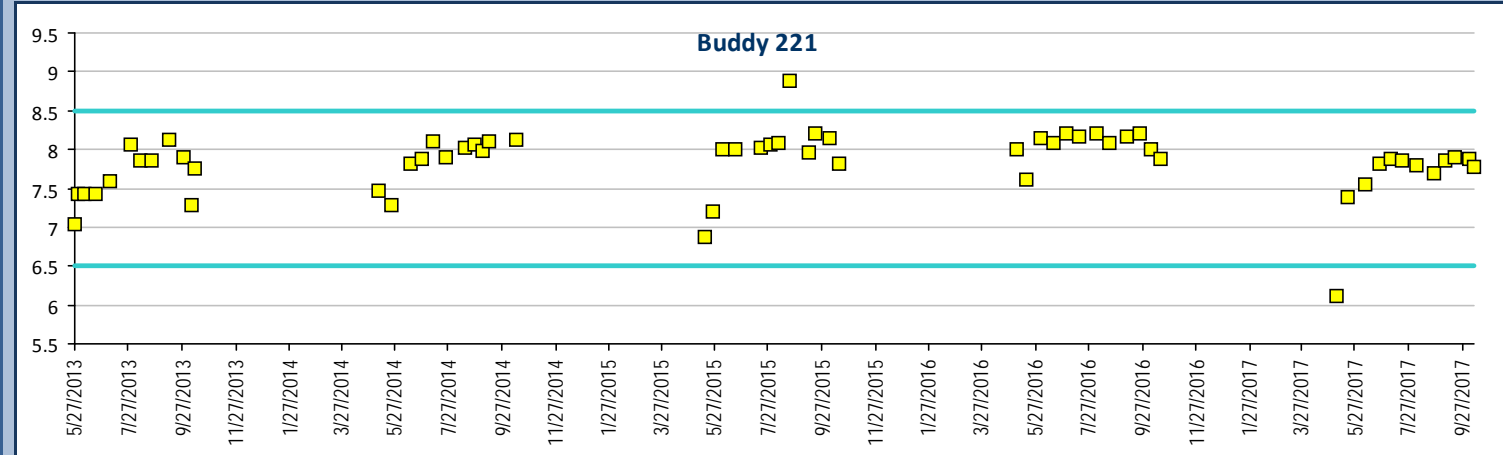
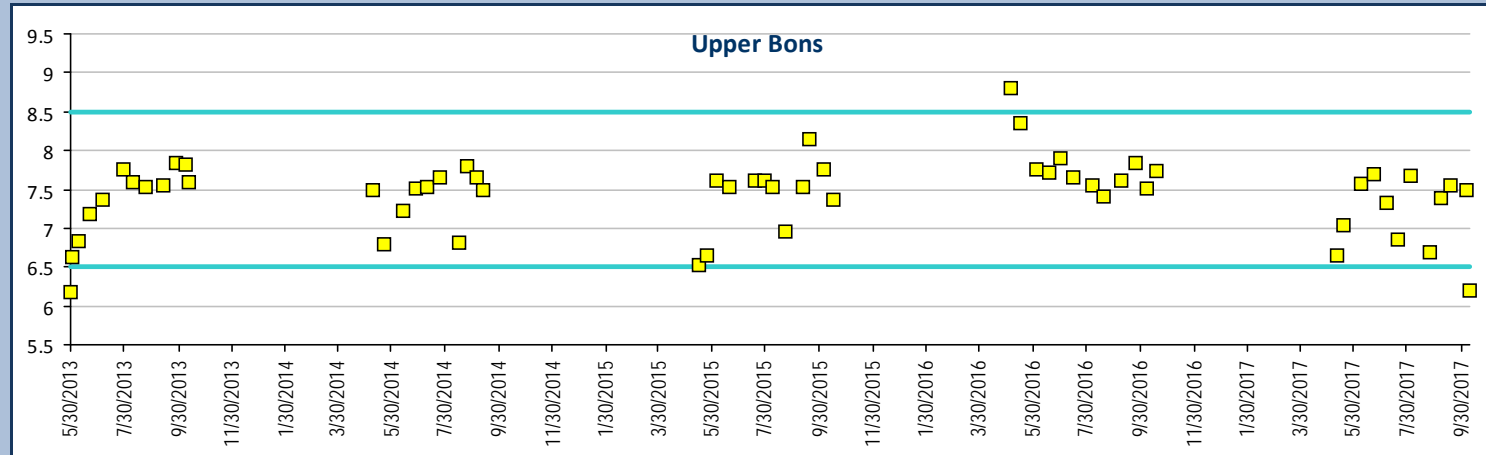
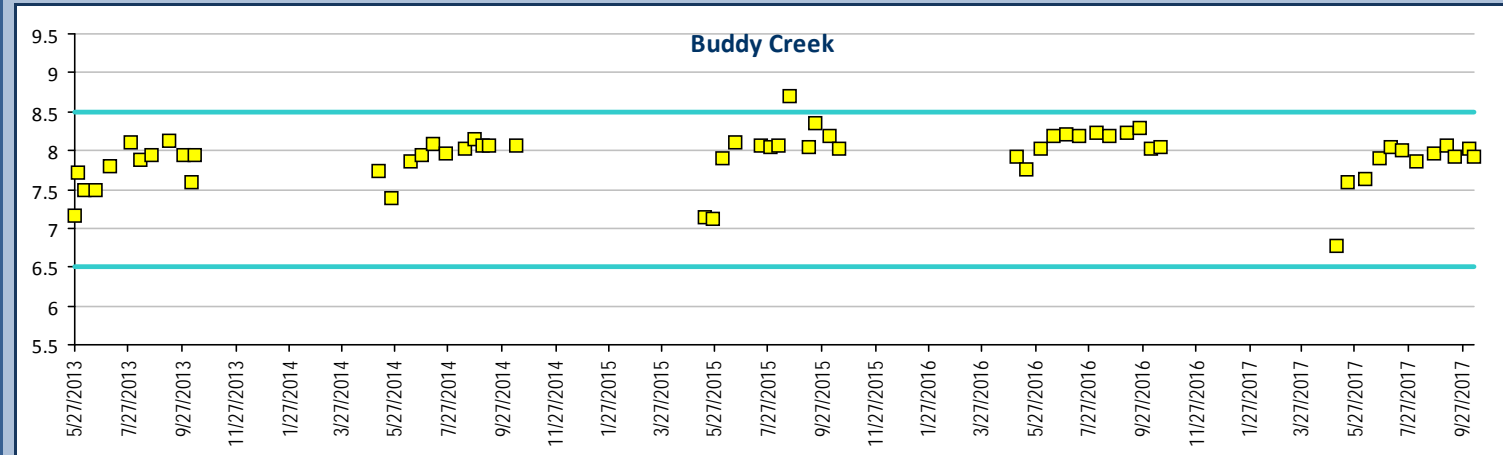
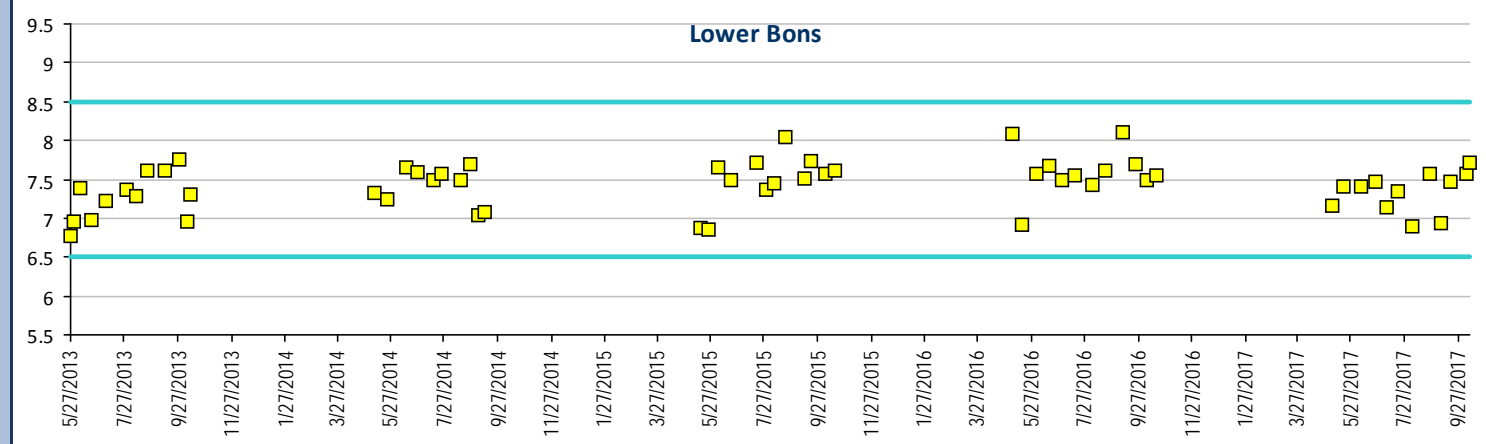




Water Monitoring Bons Creek Drainage Water Quality Profile I , 5-Year Trend Charts

pH

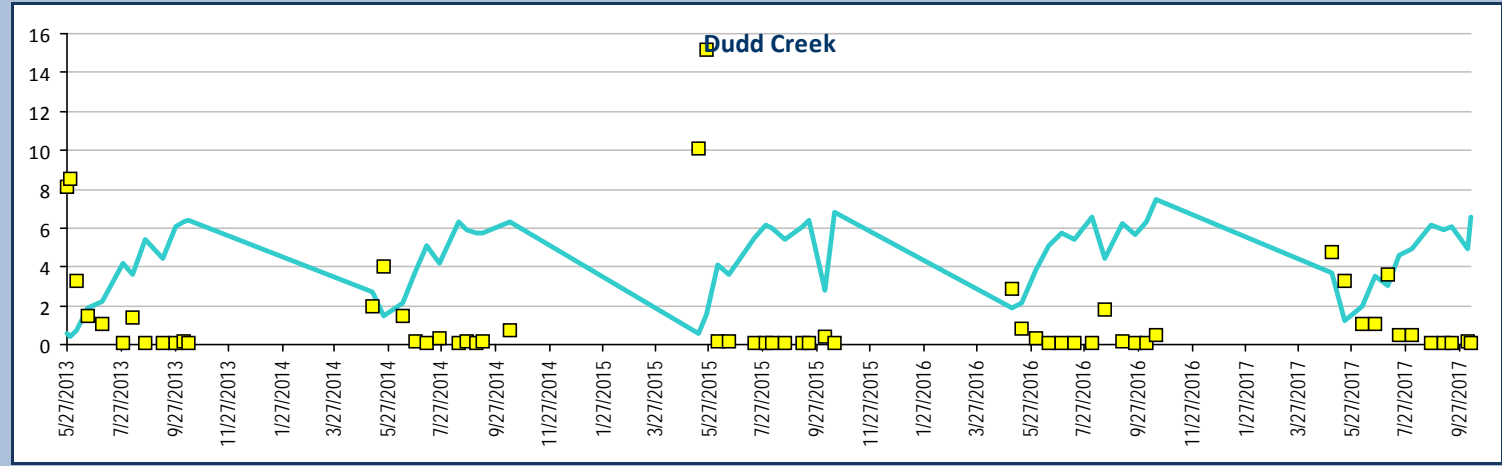
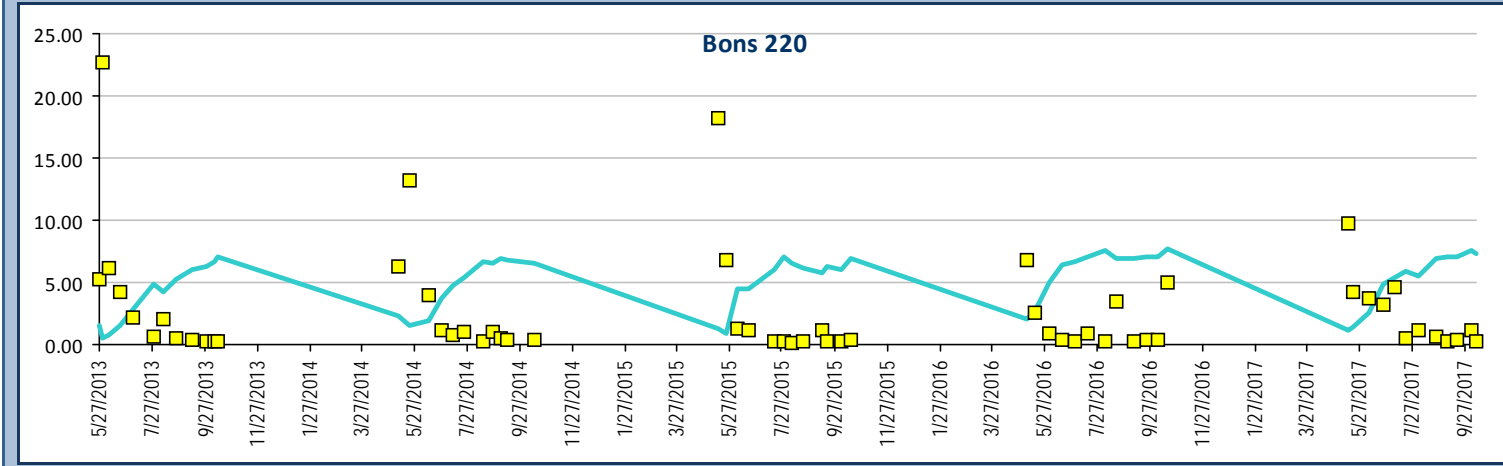
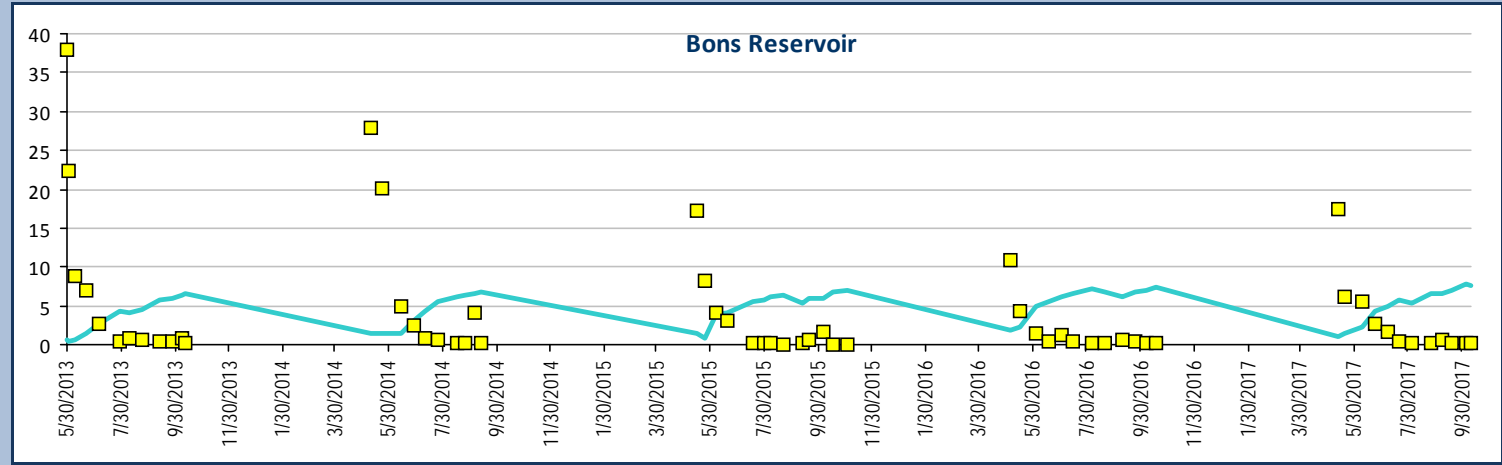
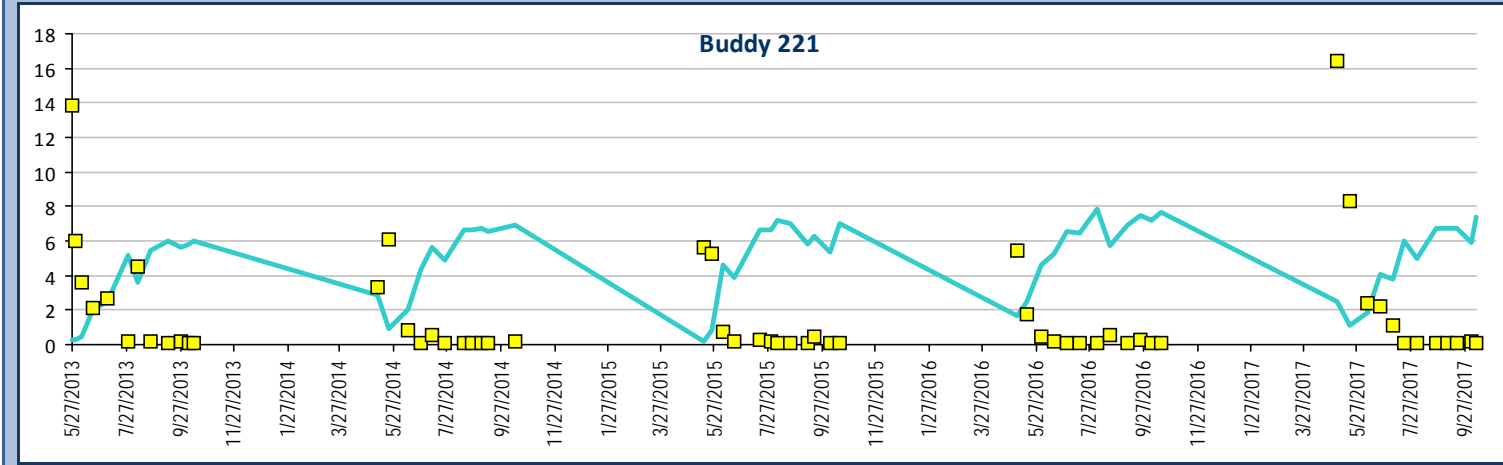
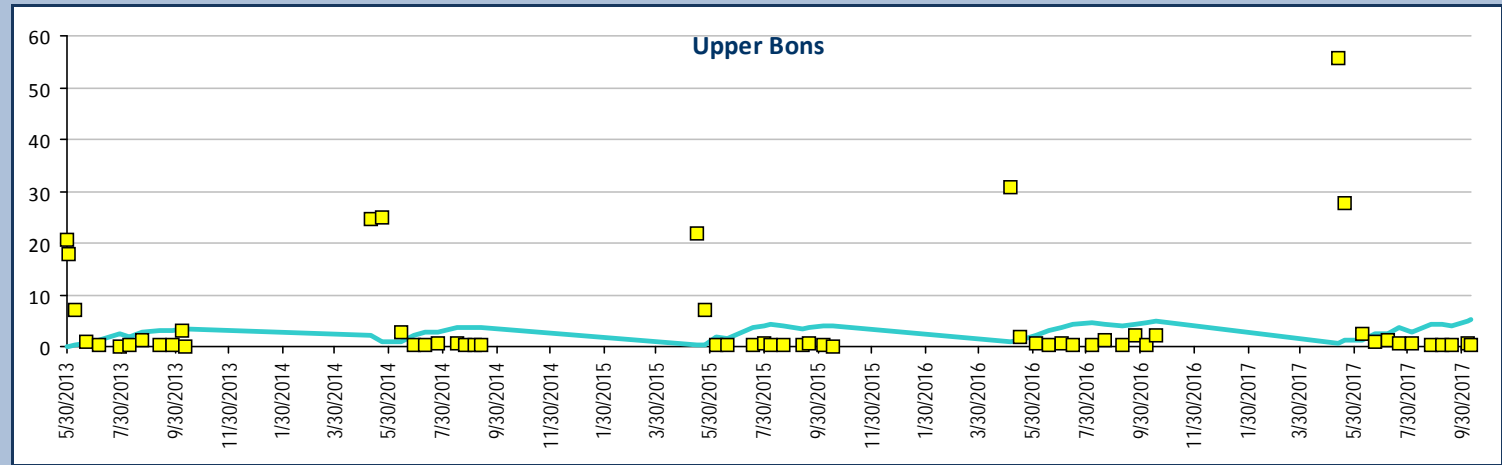
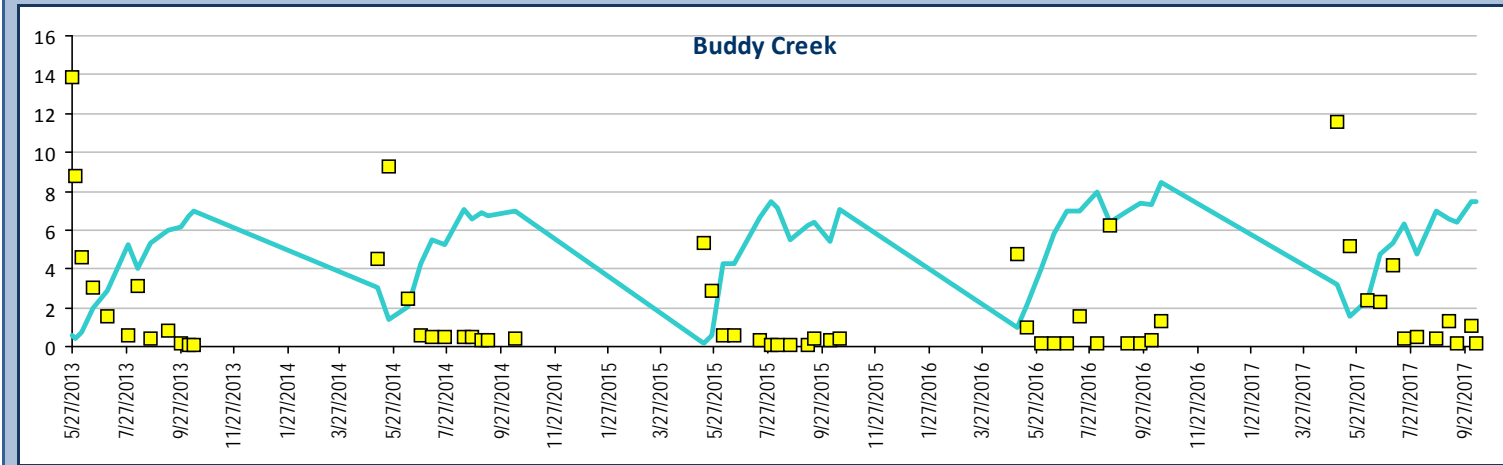
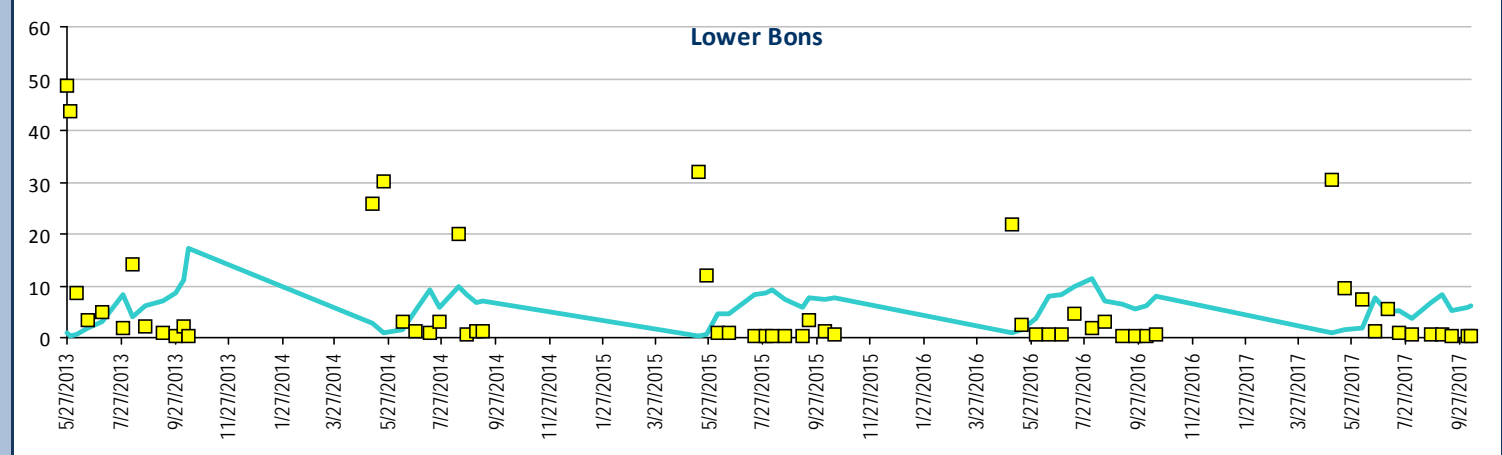
Site Specific WQS between 6.5 and 8.5





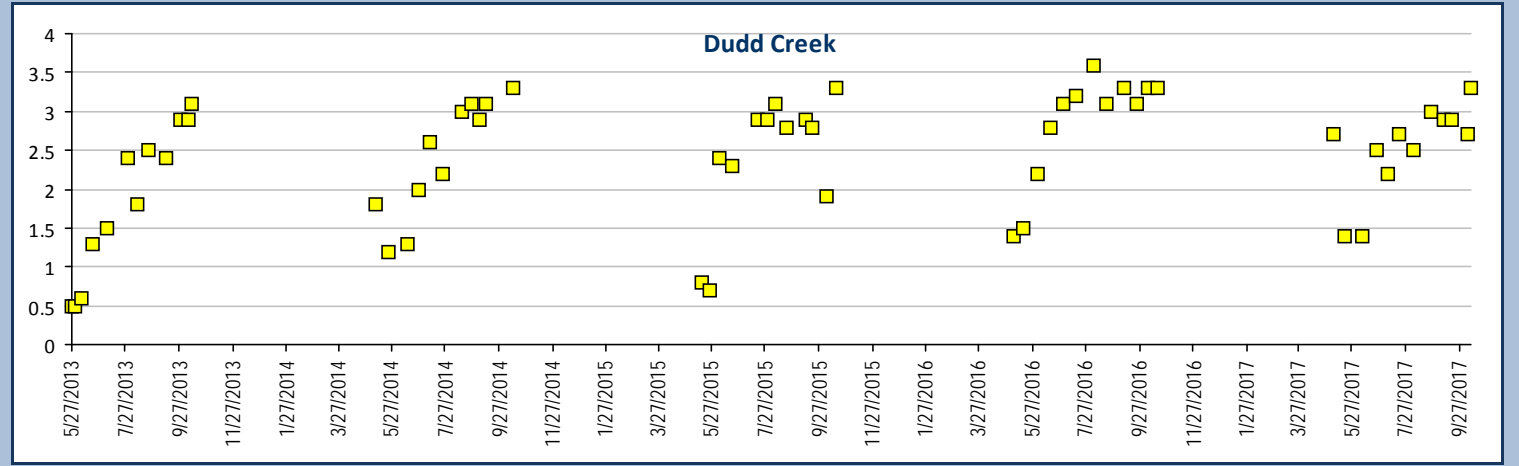
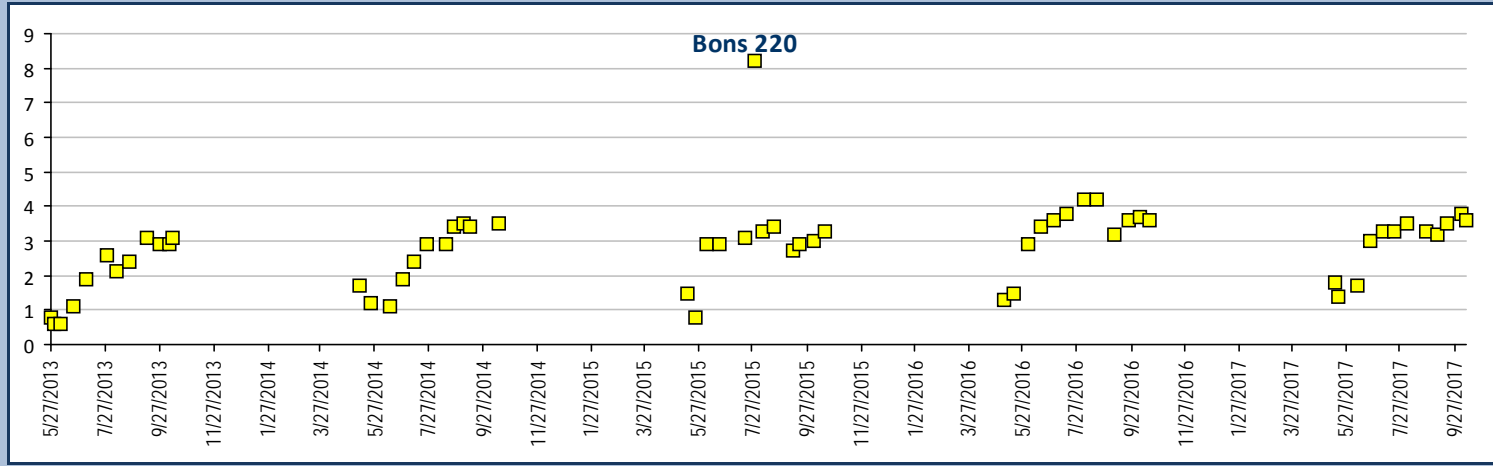
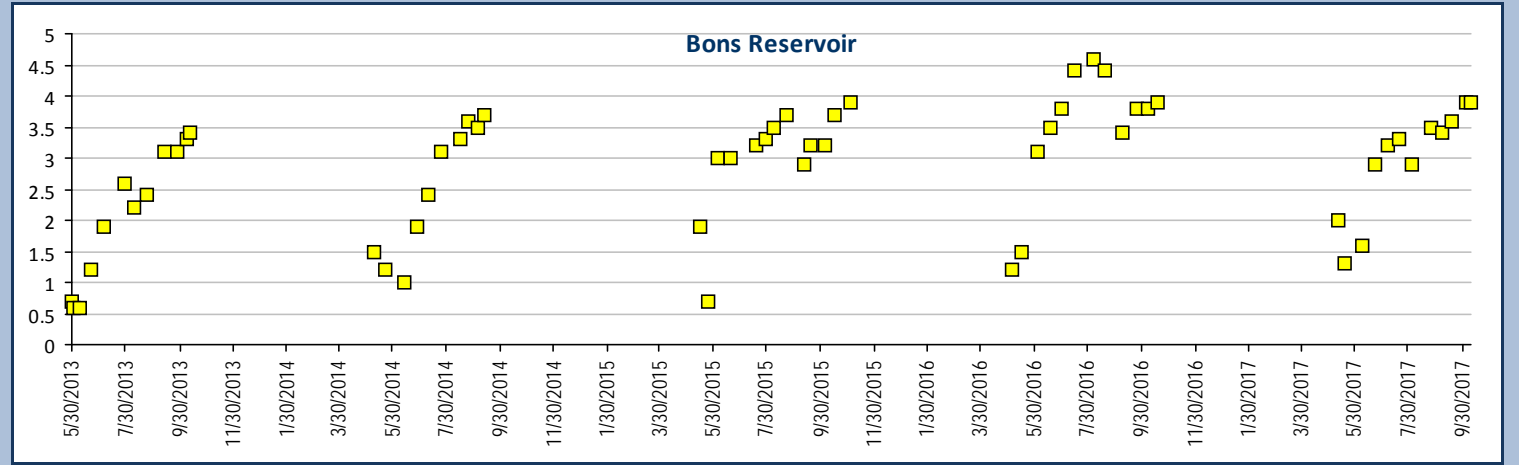
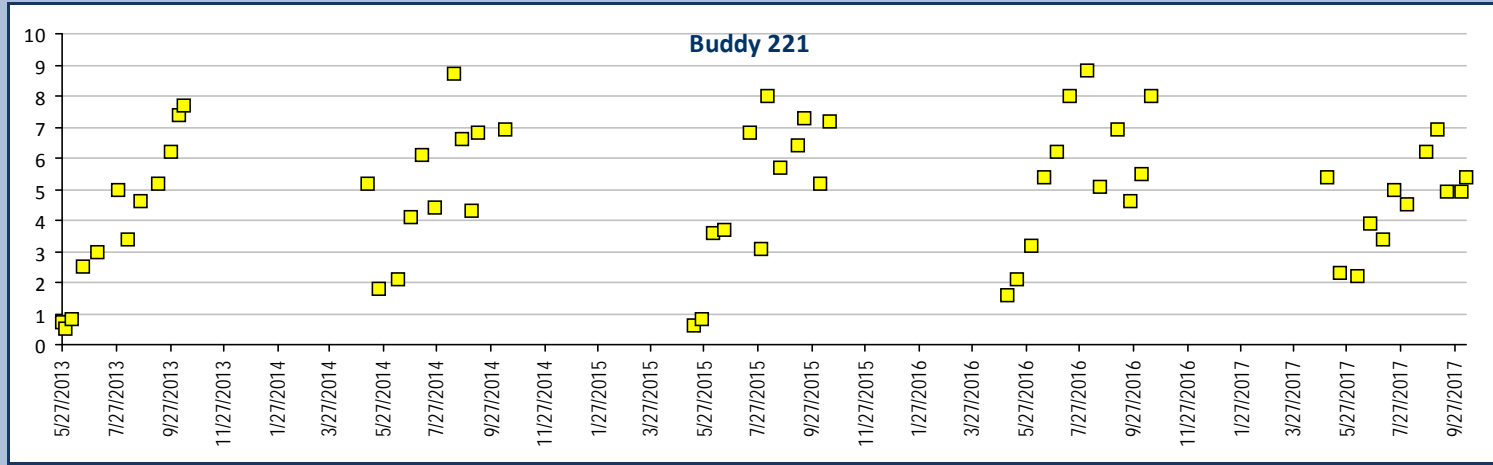
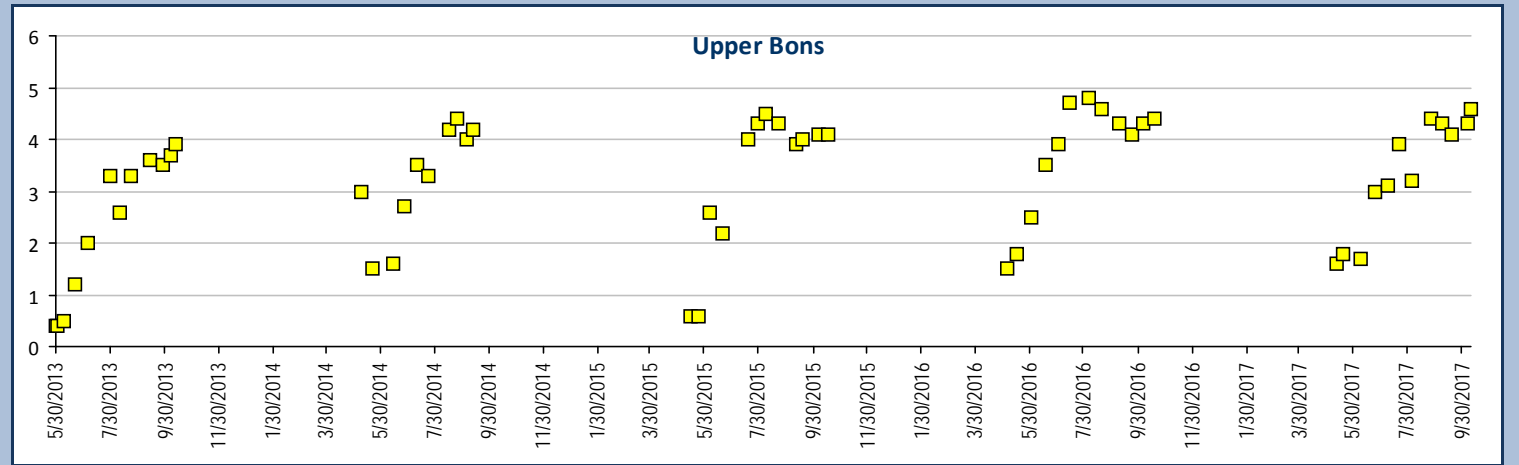
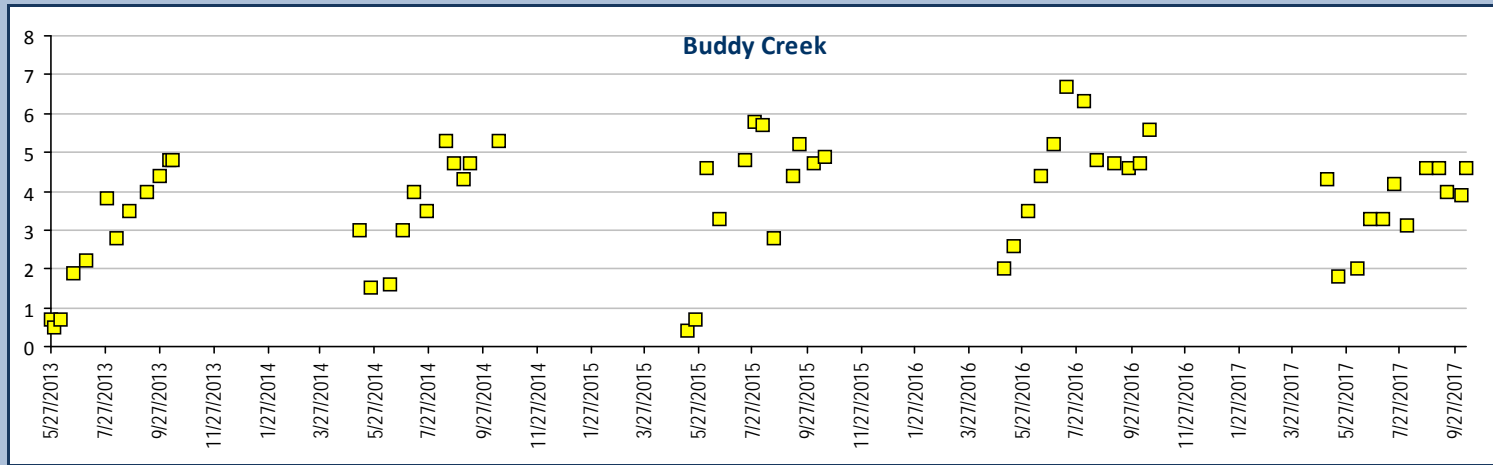
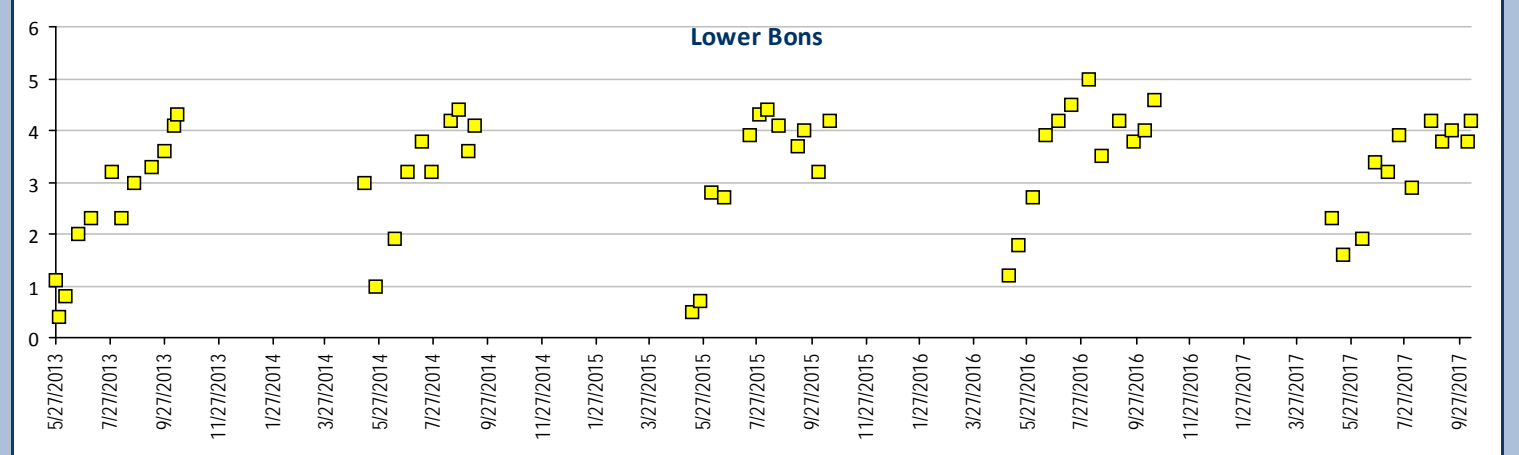
Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Lead, Total recoverable, units ug/L
 Aquatic Life - Fresh Water Chronic WQS ug/L
 Hardness Dependent Calculation
 =EXP(1.273*(LN(calc *hardness))-4.705)
 * Calculated using Standard Methods 2340B



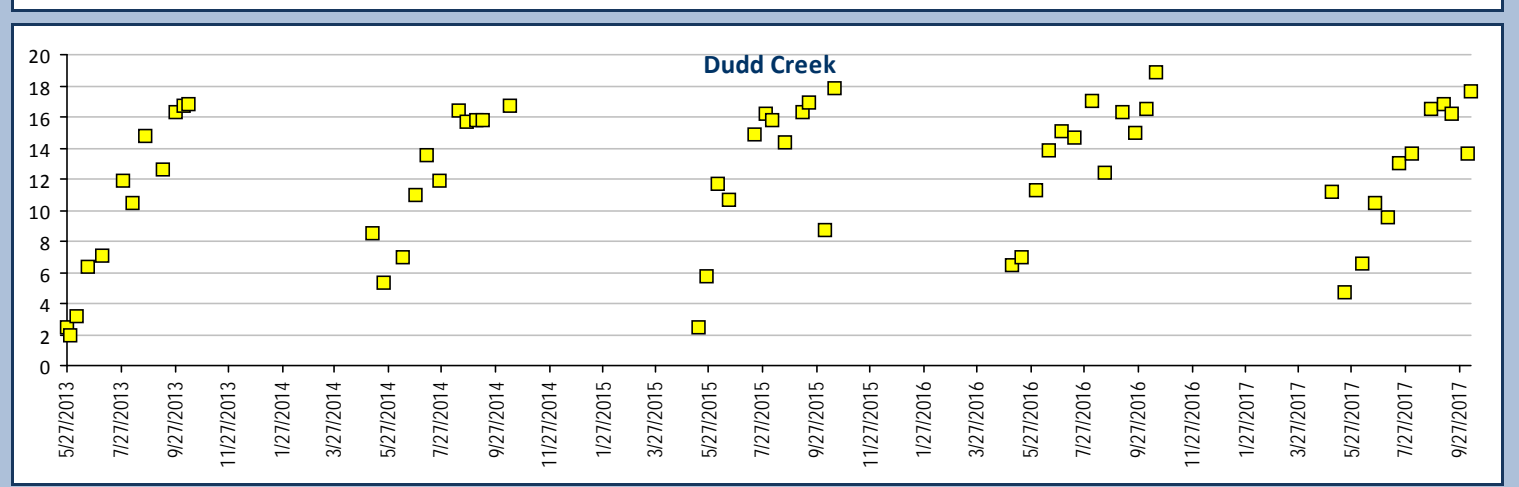
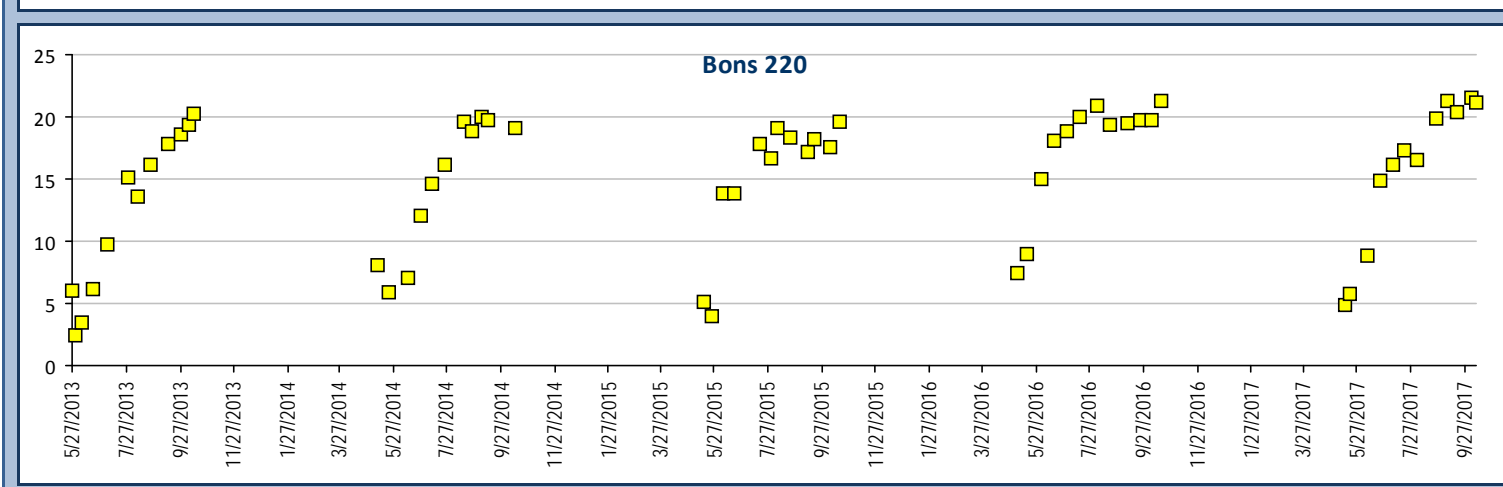
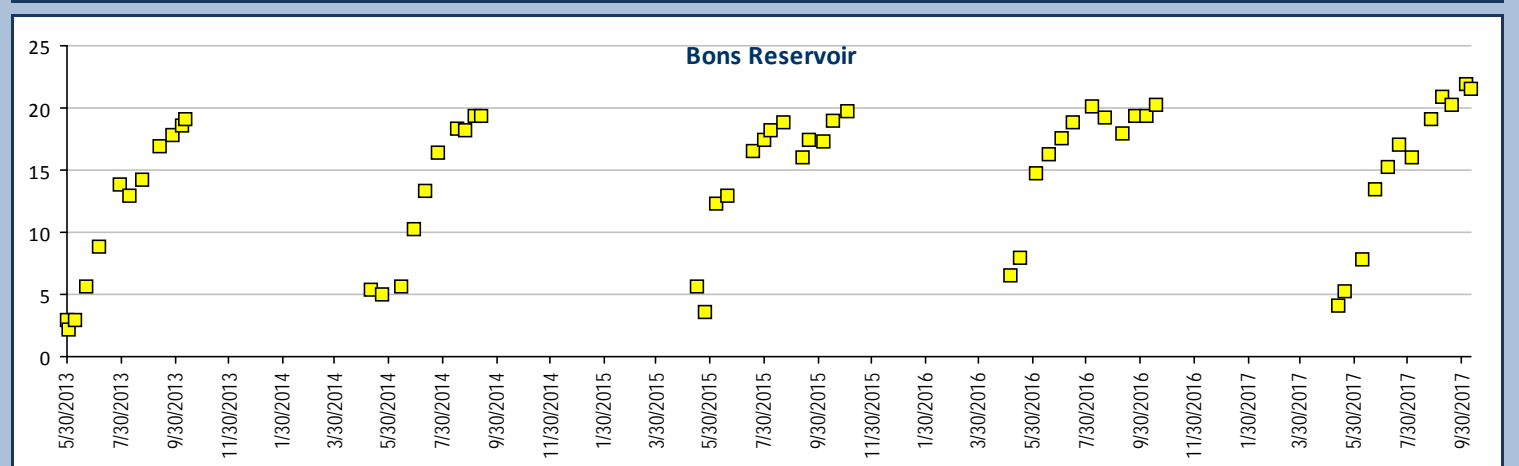
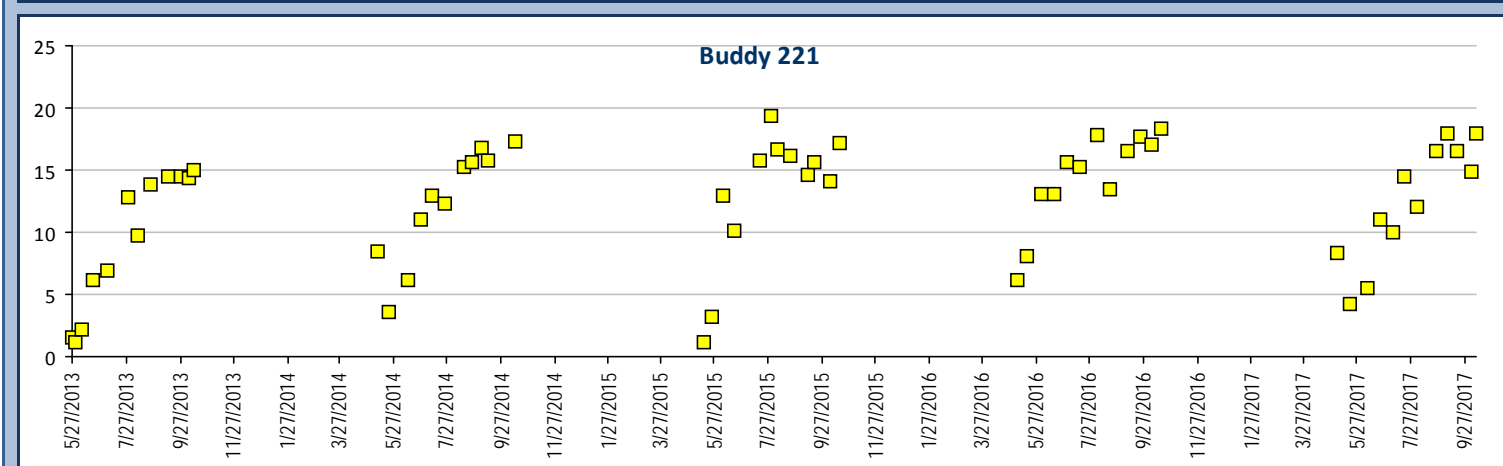
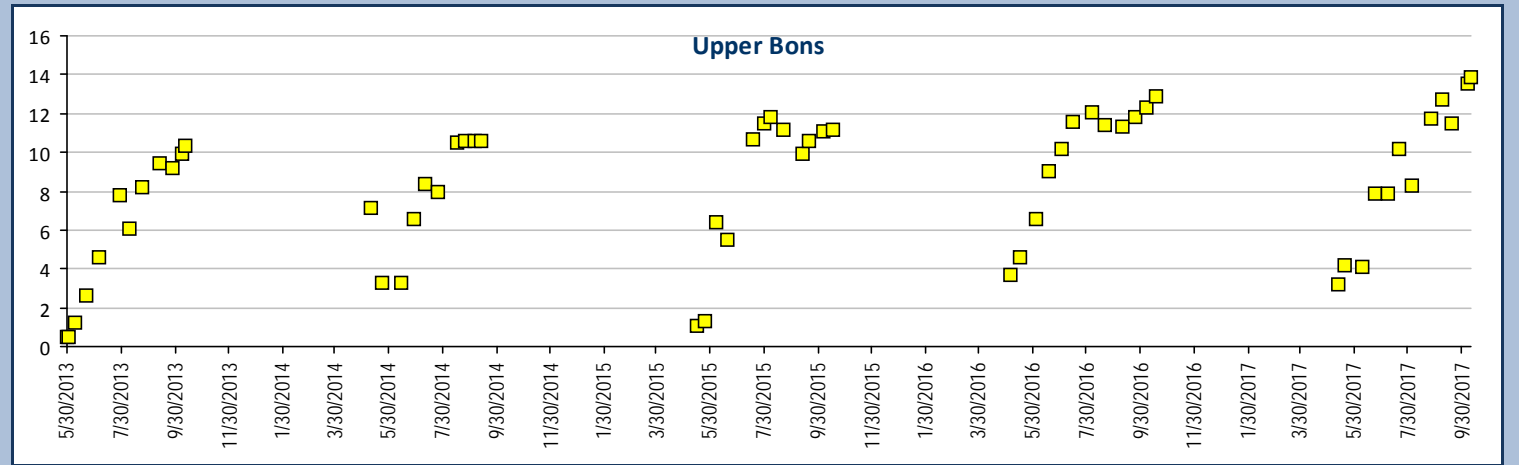
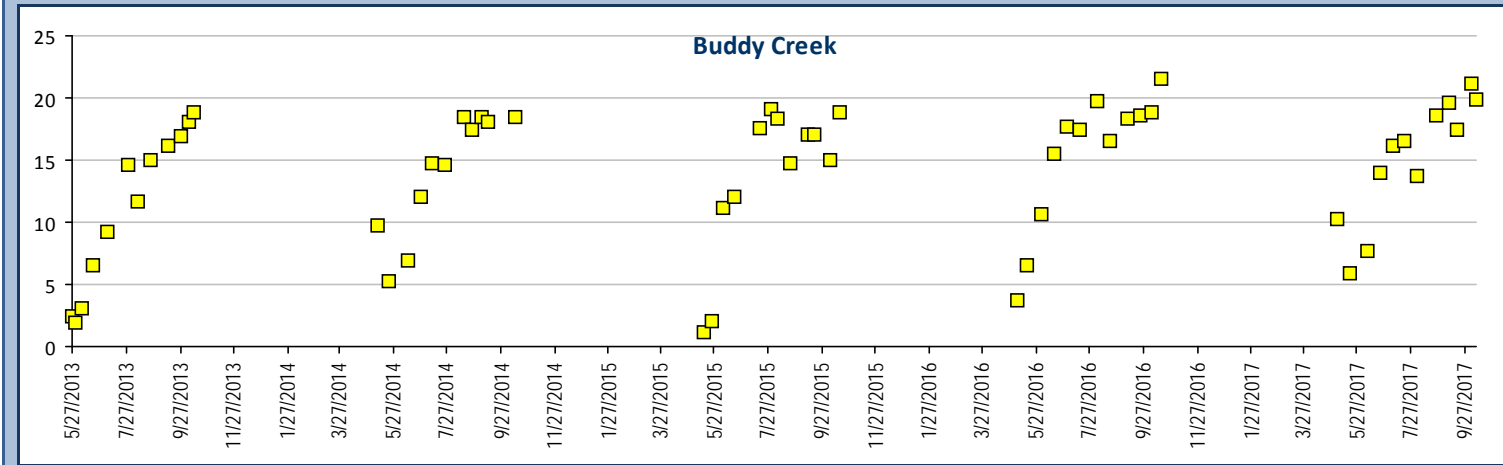
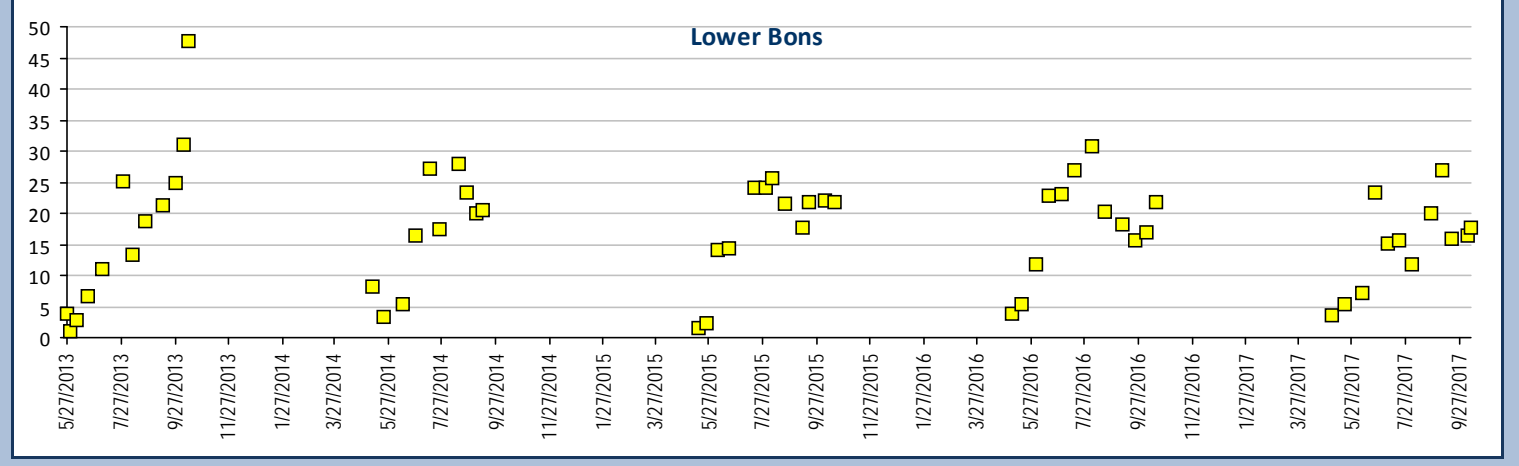


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts Sodium, Total Recoverable, units mg/L



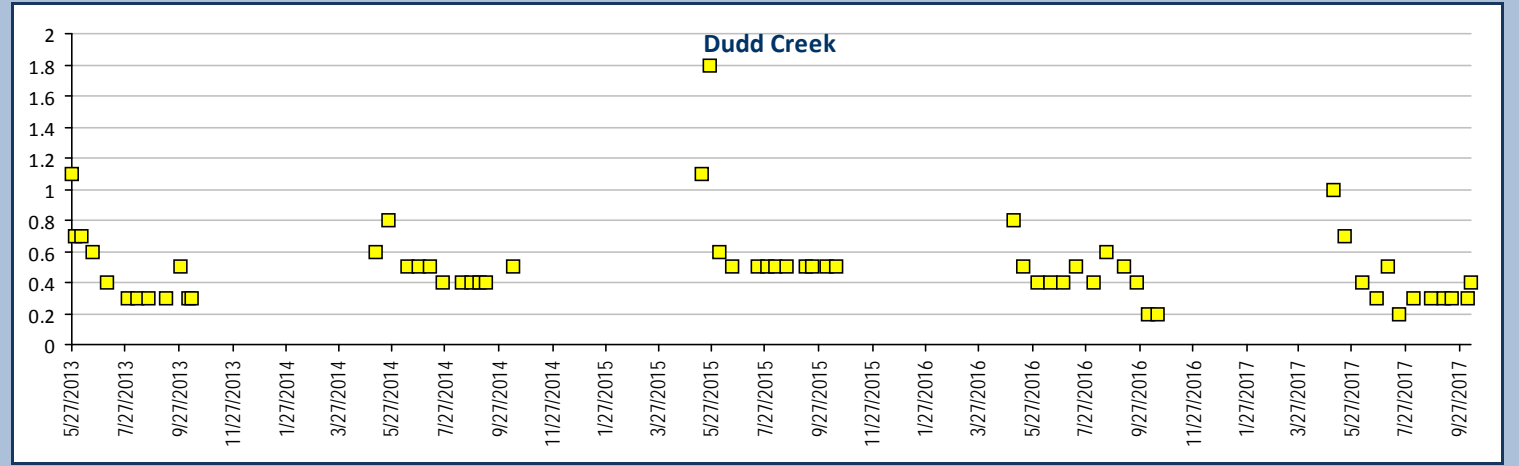
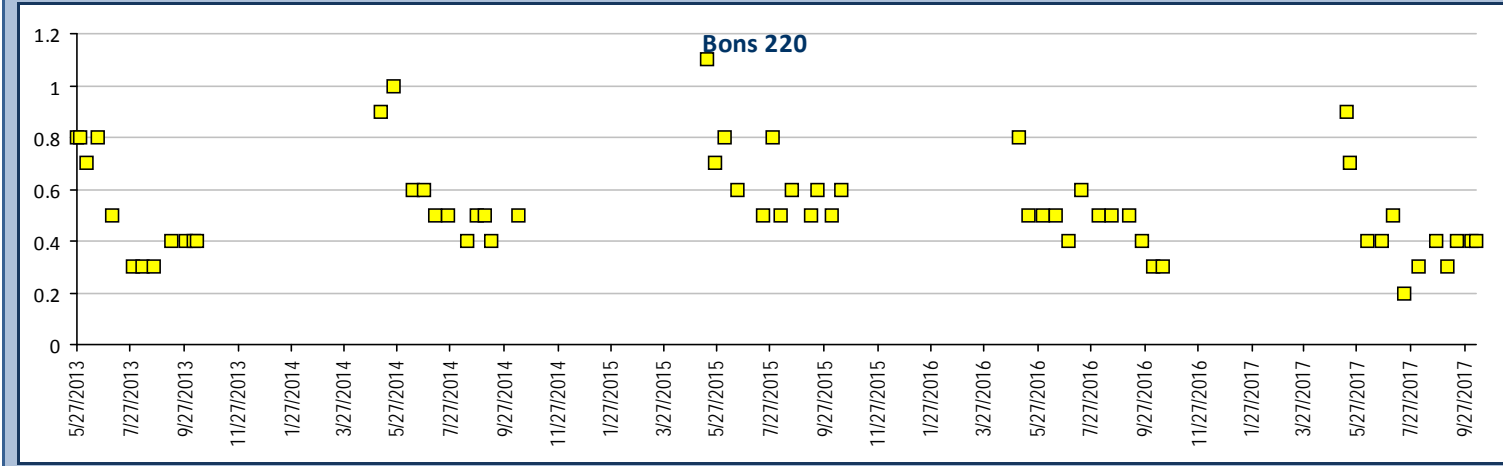
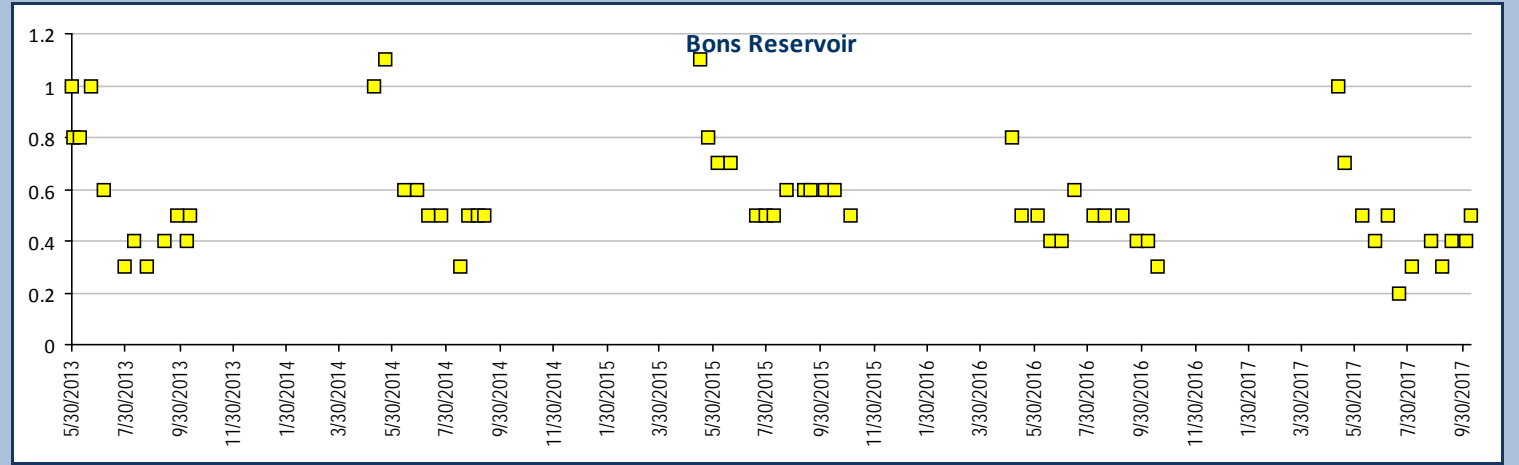
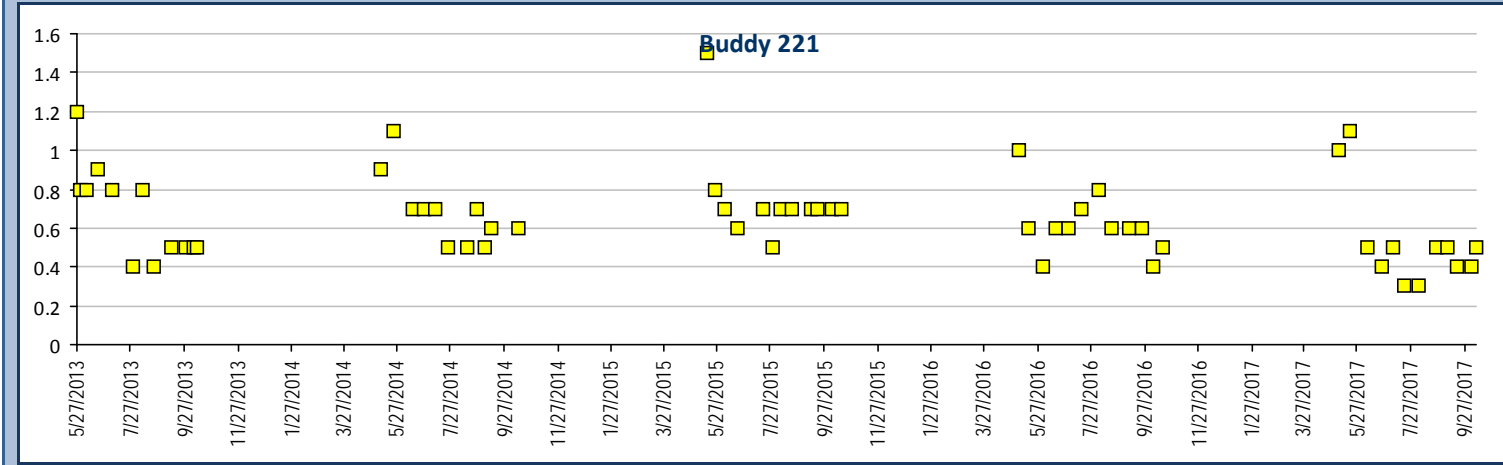
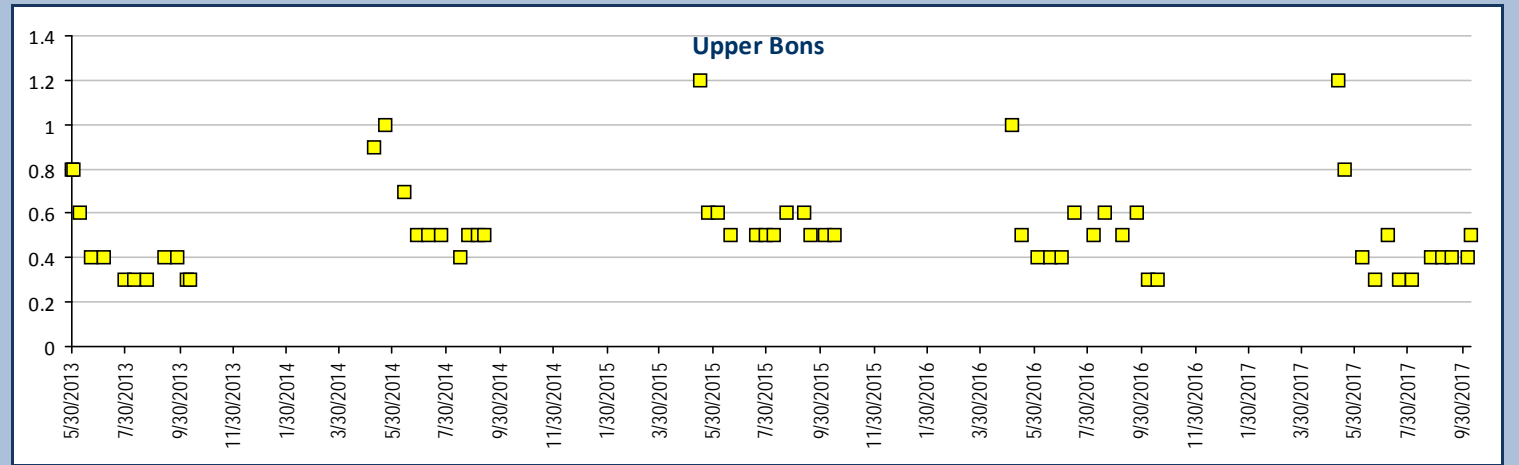
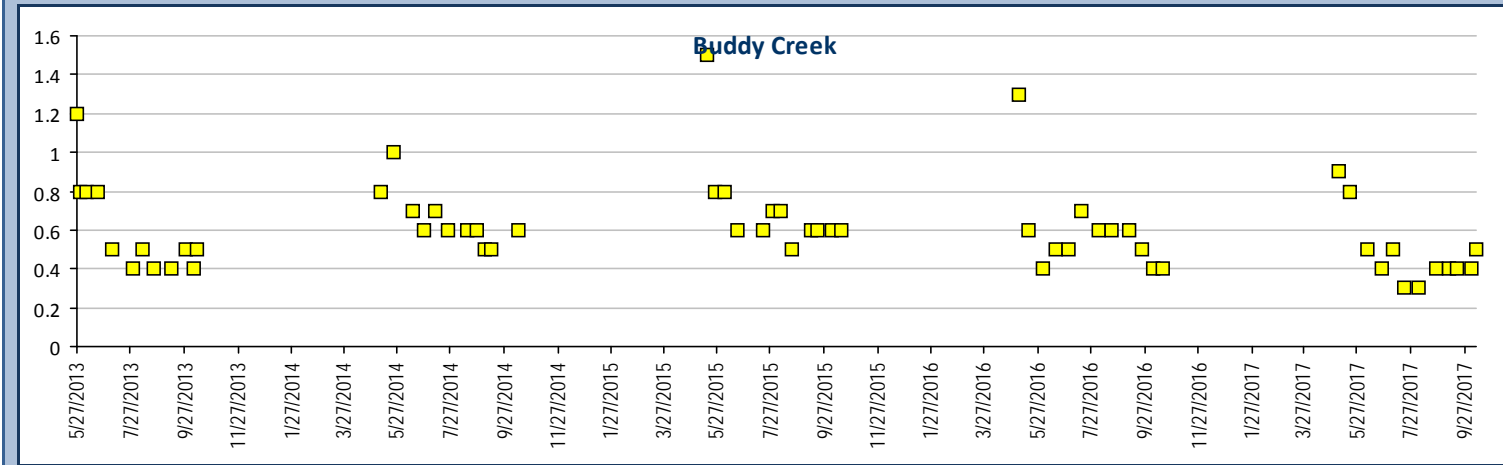
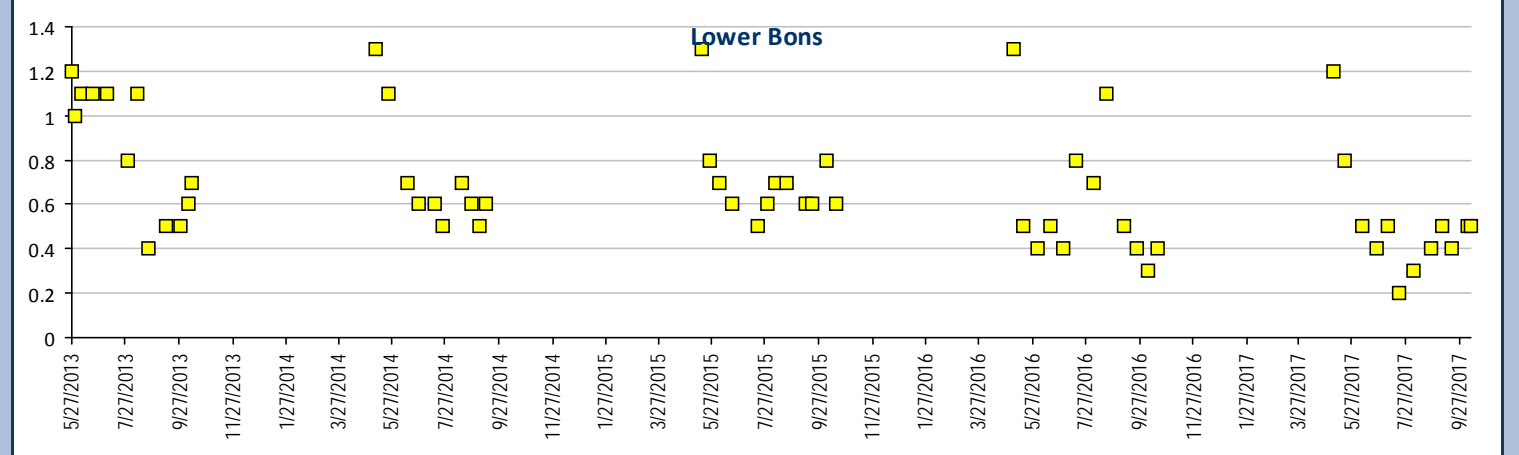


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts Magnesium, Total Recoverable, units mg/L





Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts Potassium, Total Recoverable, units mg/L



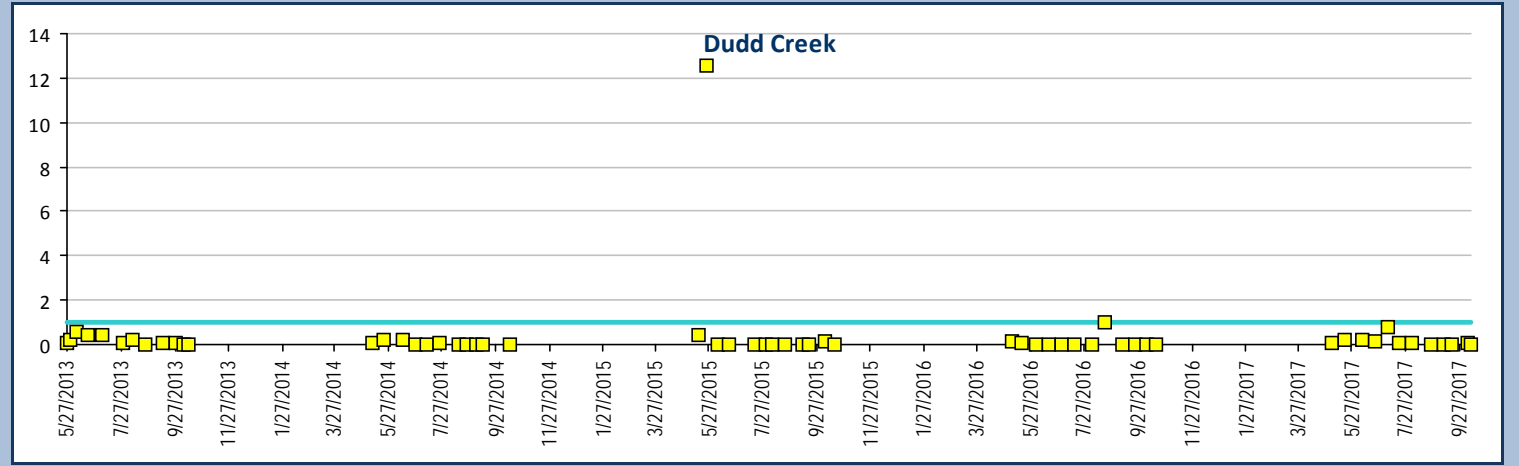
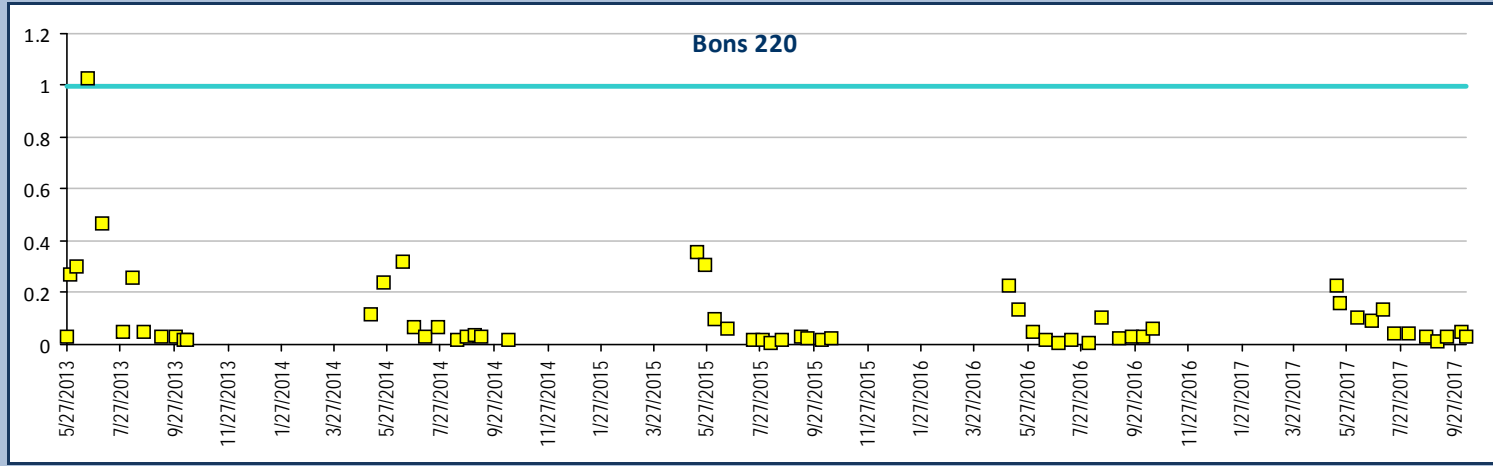
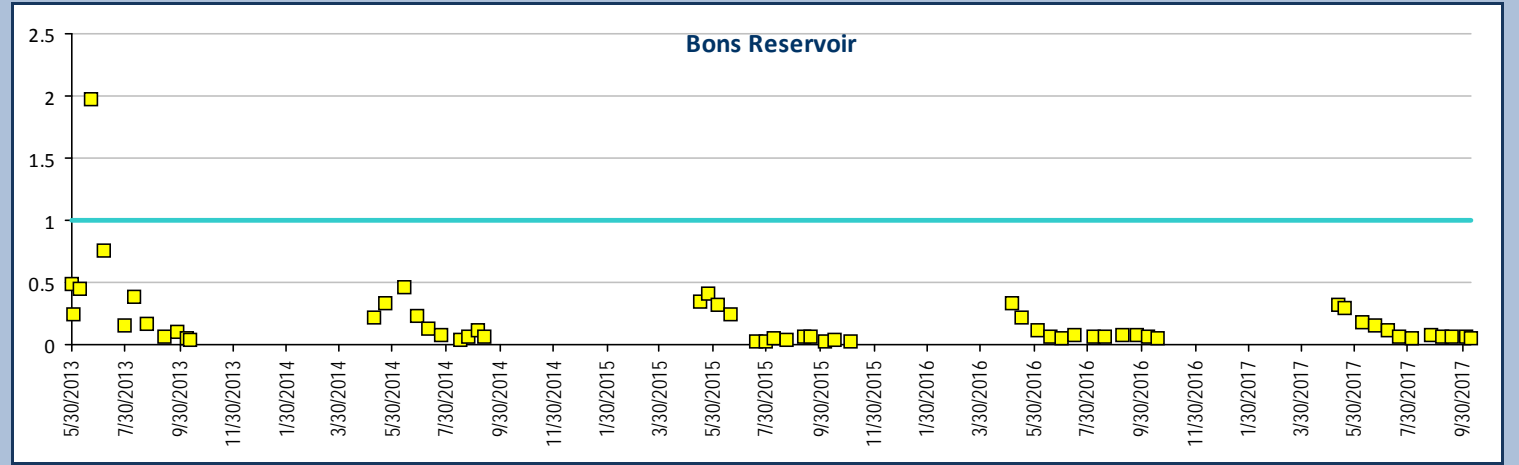
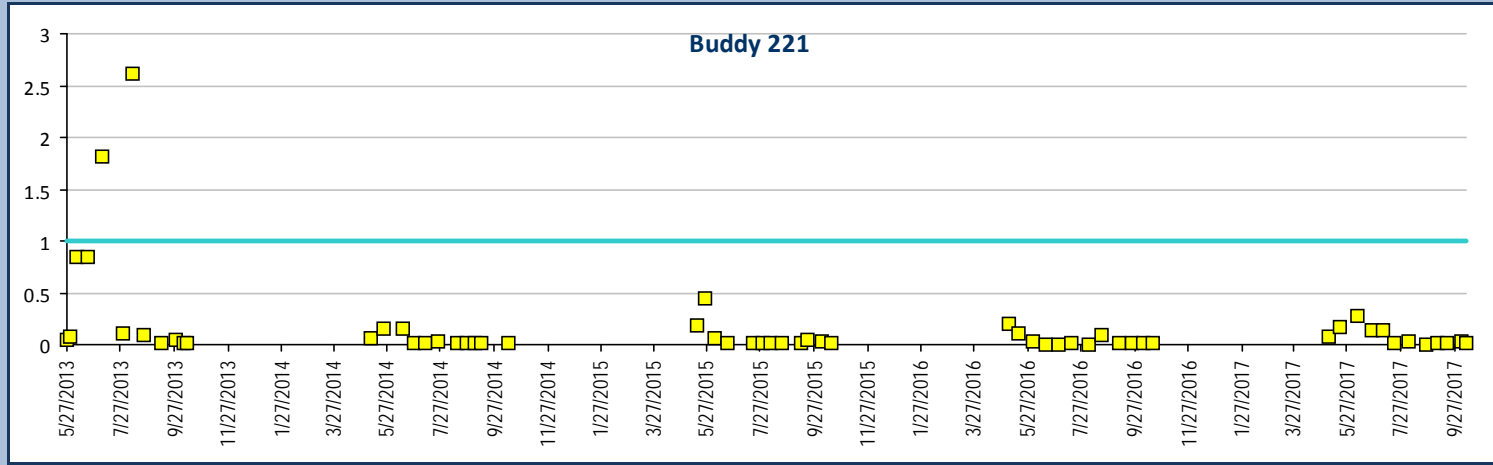
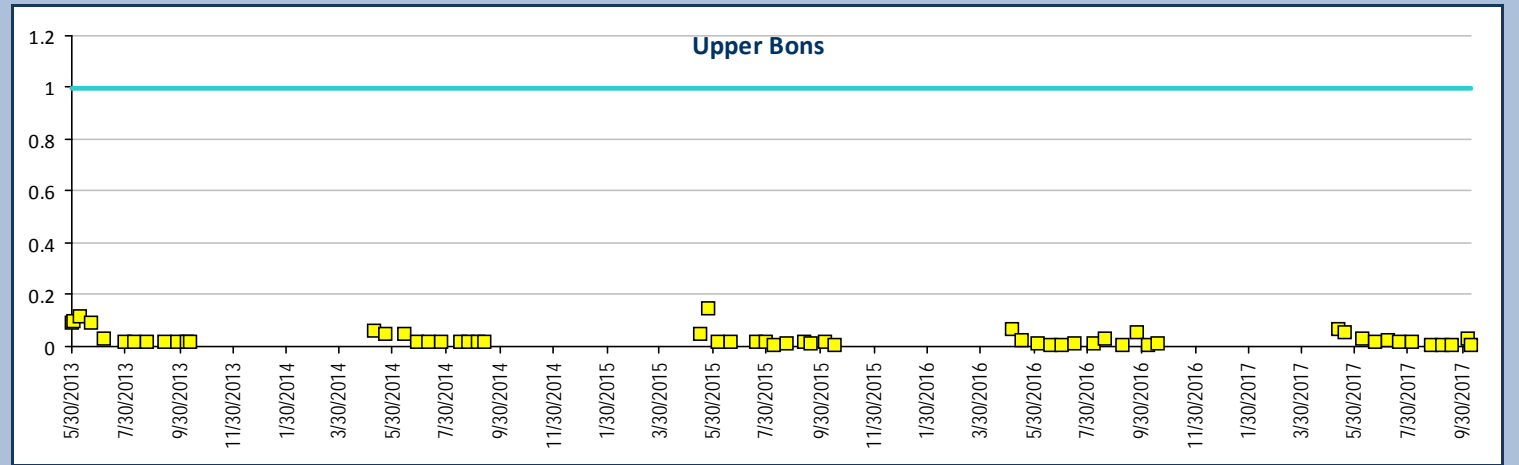
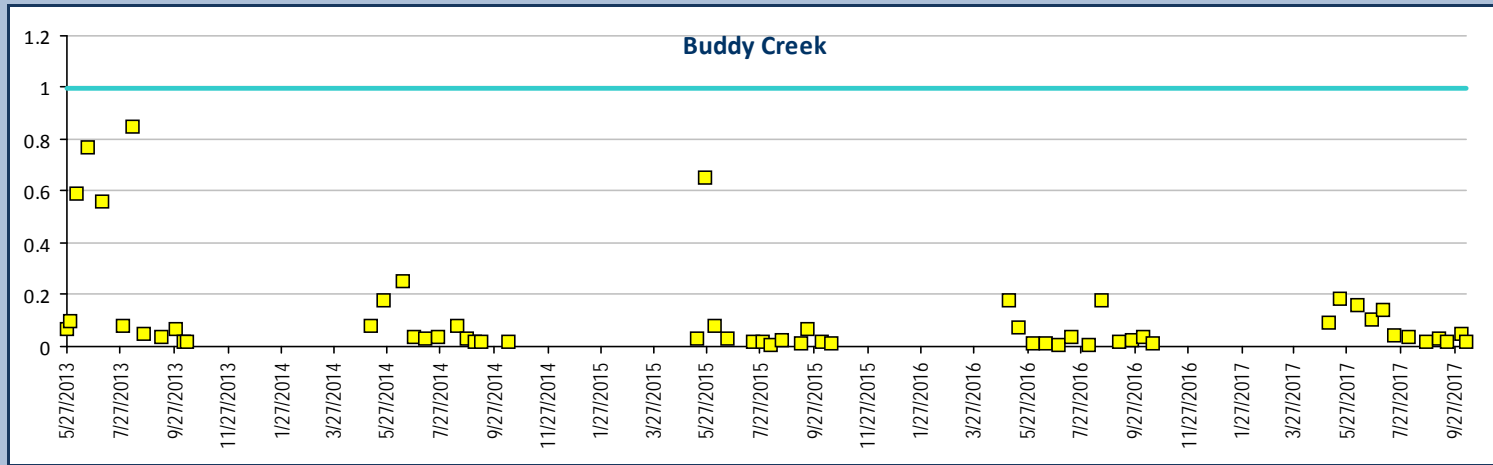
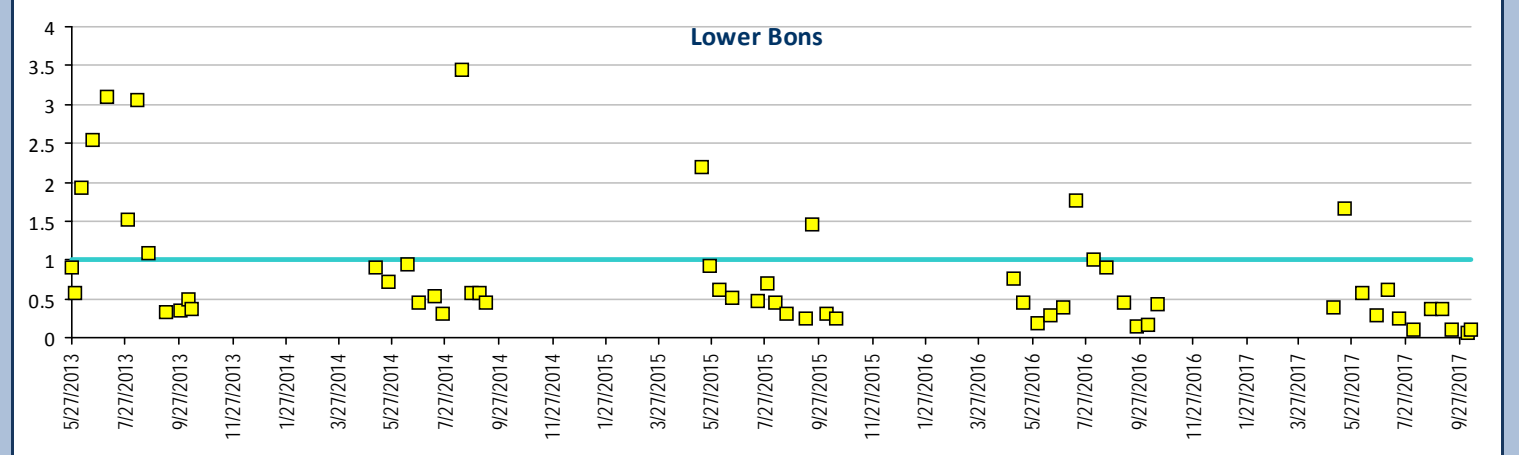


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Iron, Total Recoverable, units mg/L

Aquatic Life - Fresh Water Chronic WQS mg/L

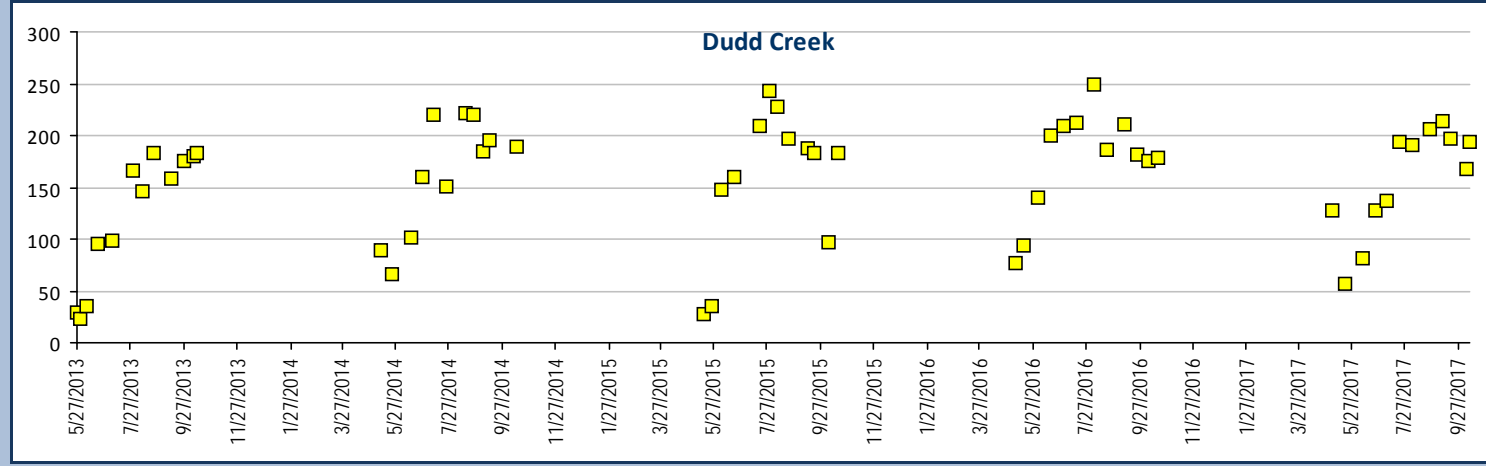
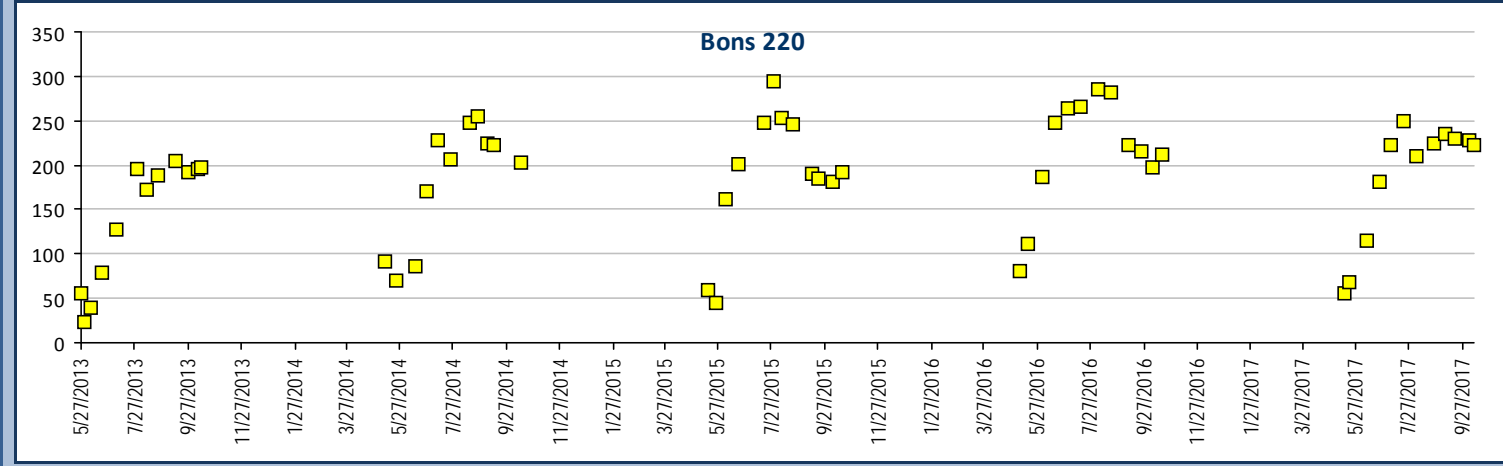
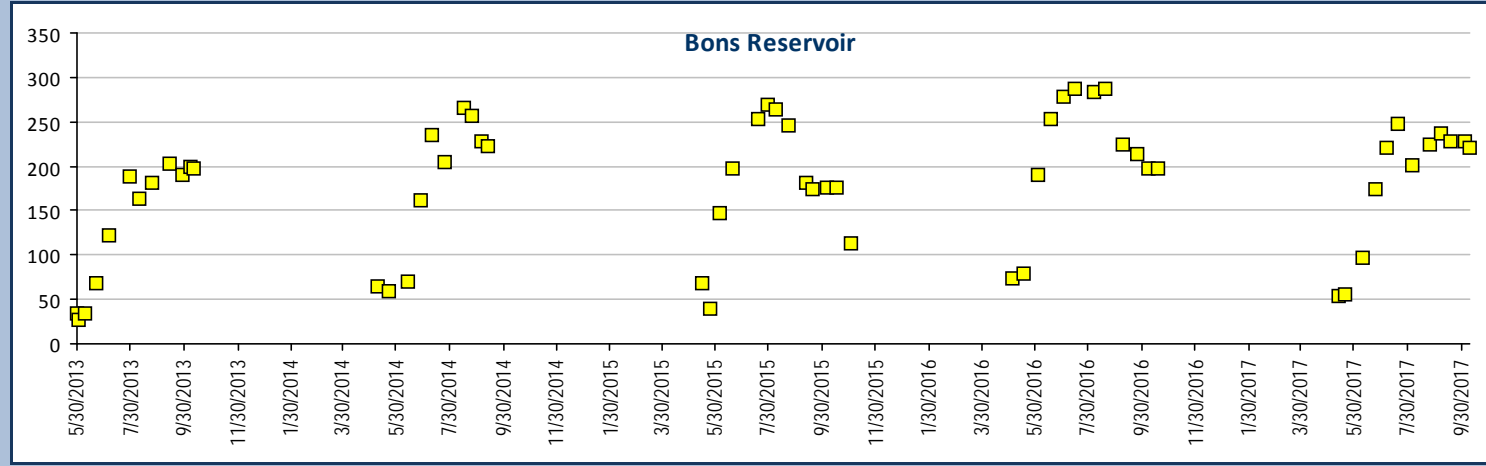
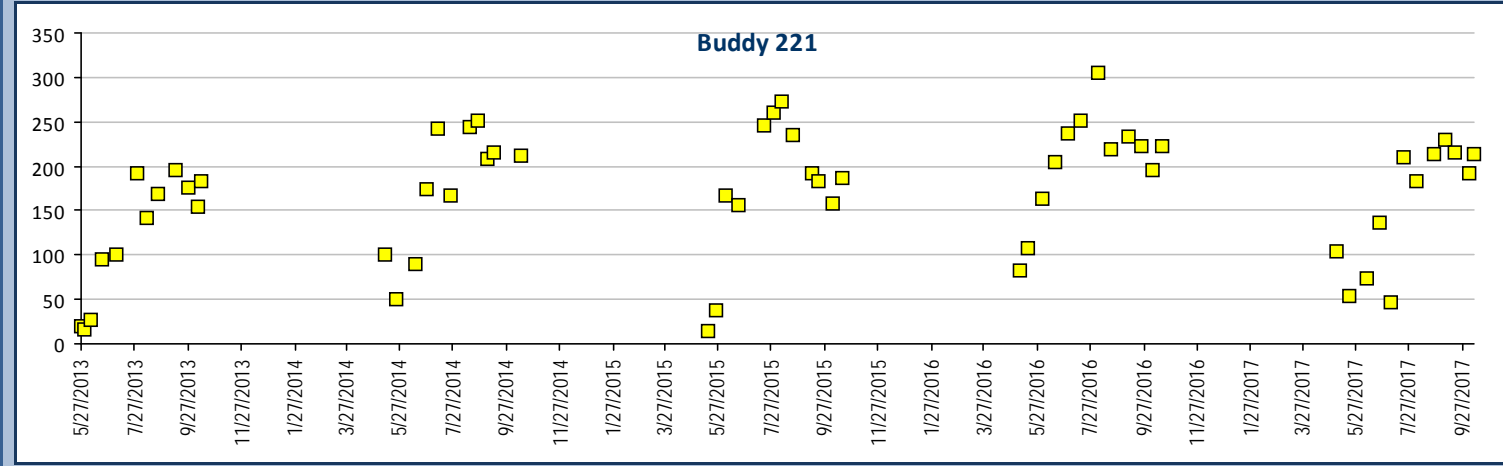
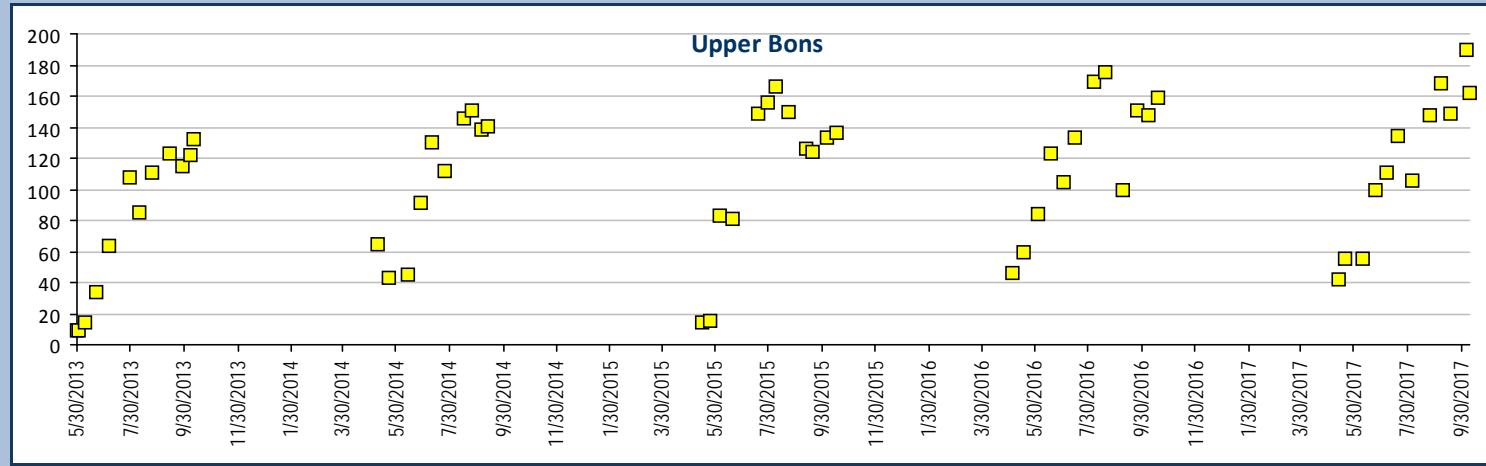
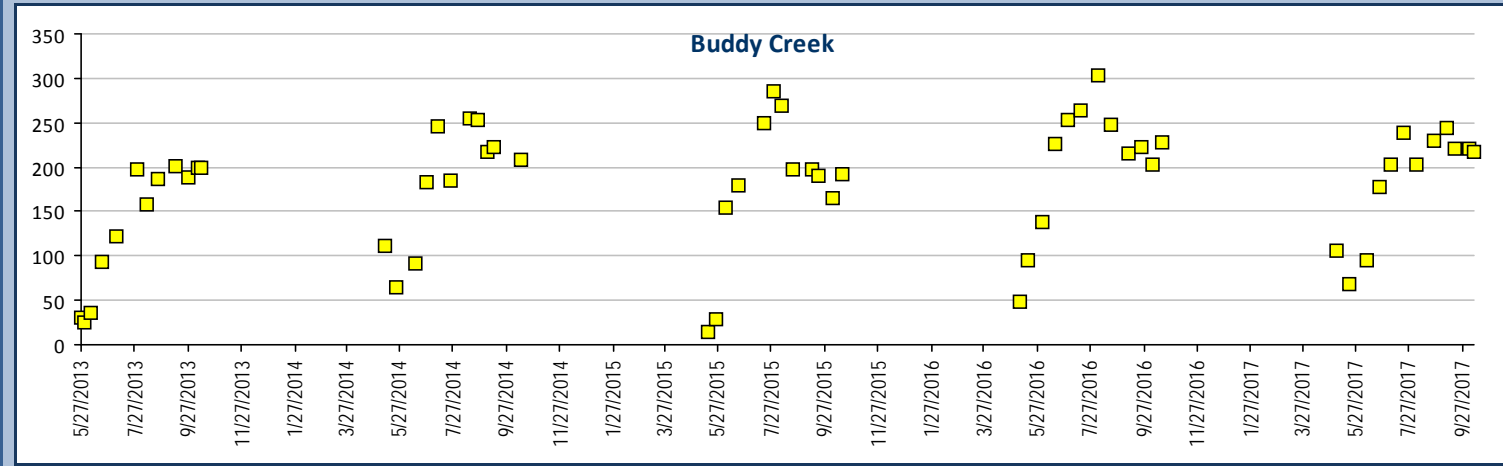
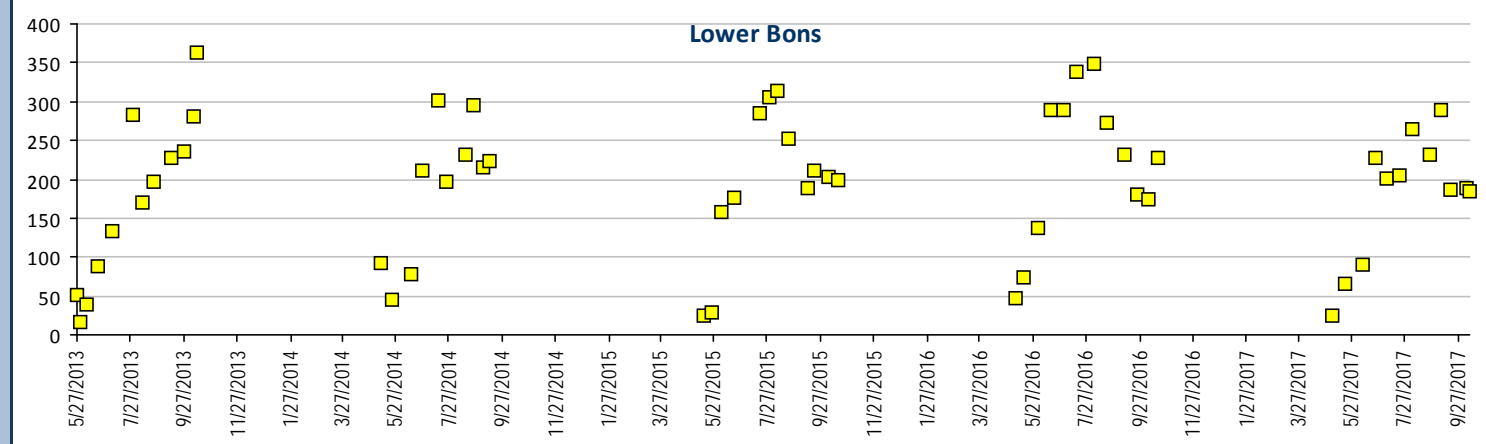
1.0 mg/L





Water Monitoring Bons Creek Drainage Water Quality Profile I , 5-Year Trend Charts

Conductivity, units uS/cm



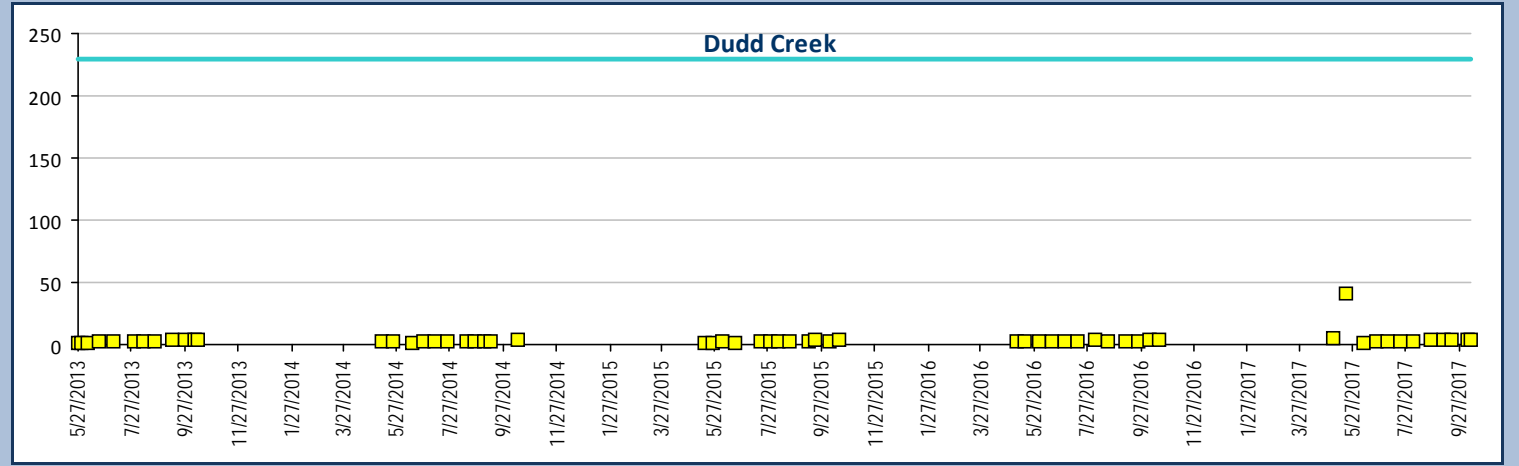
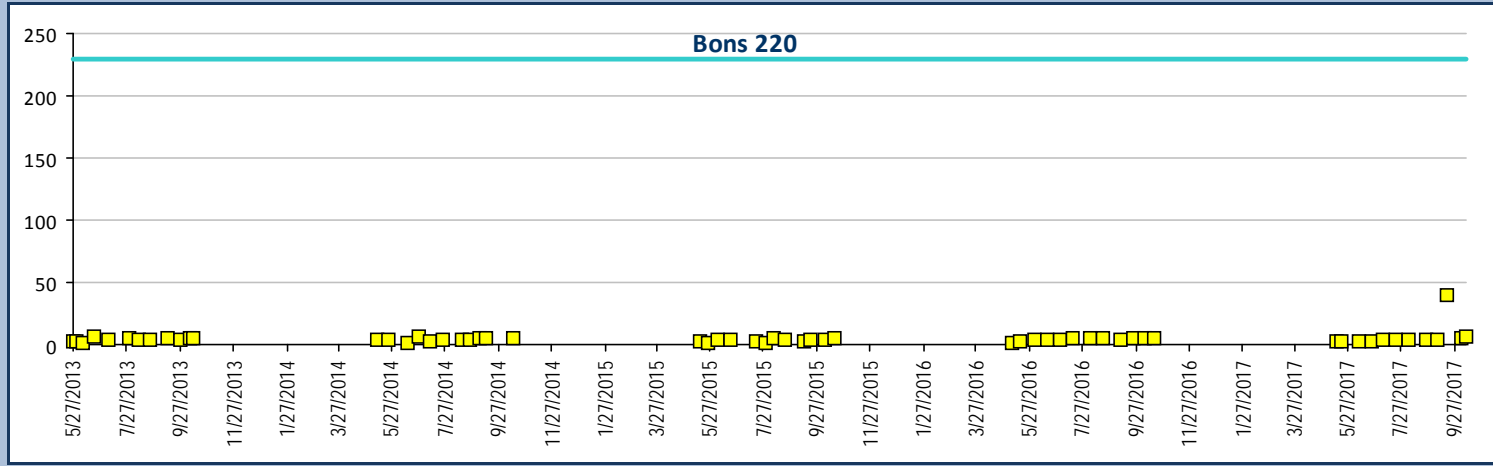
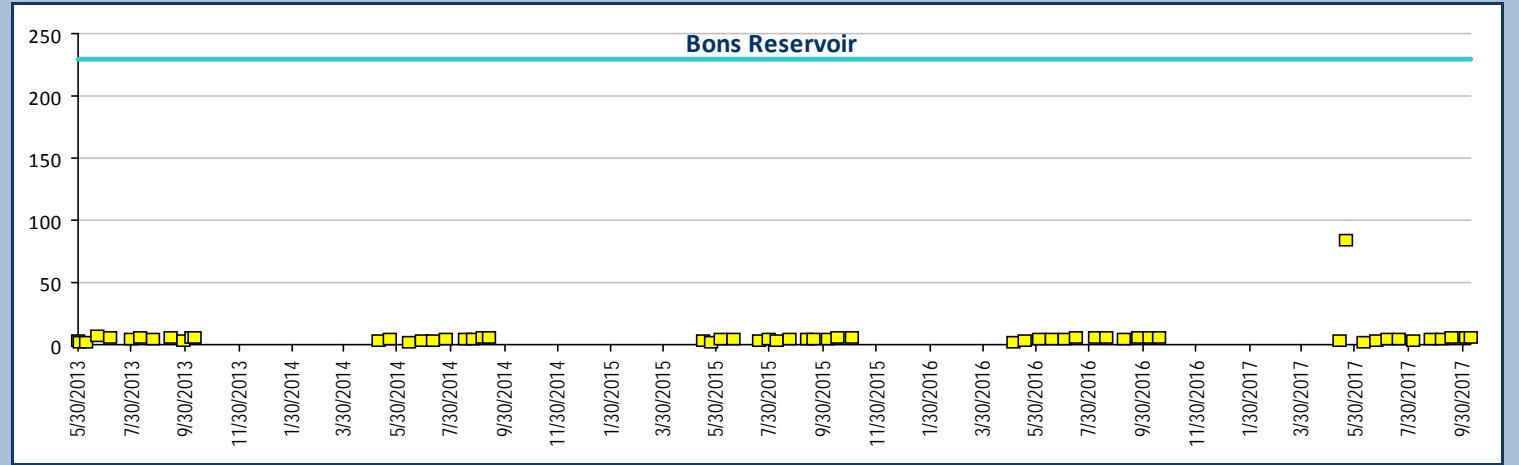
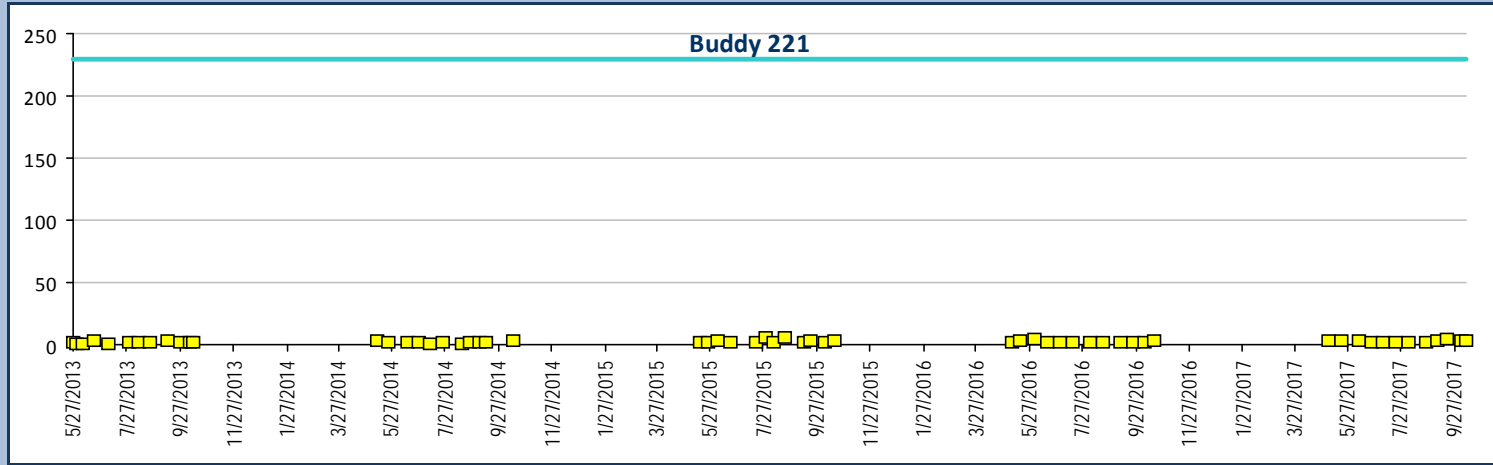
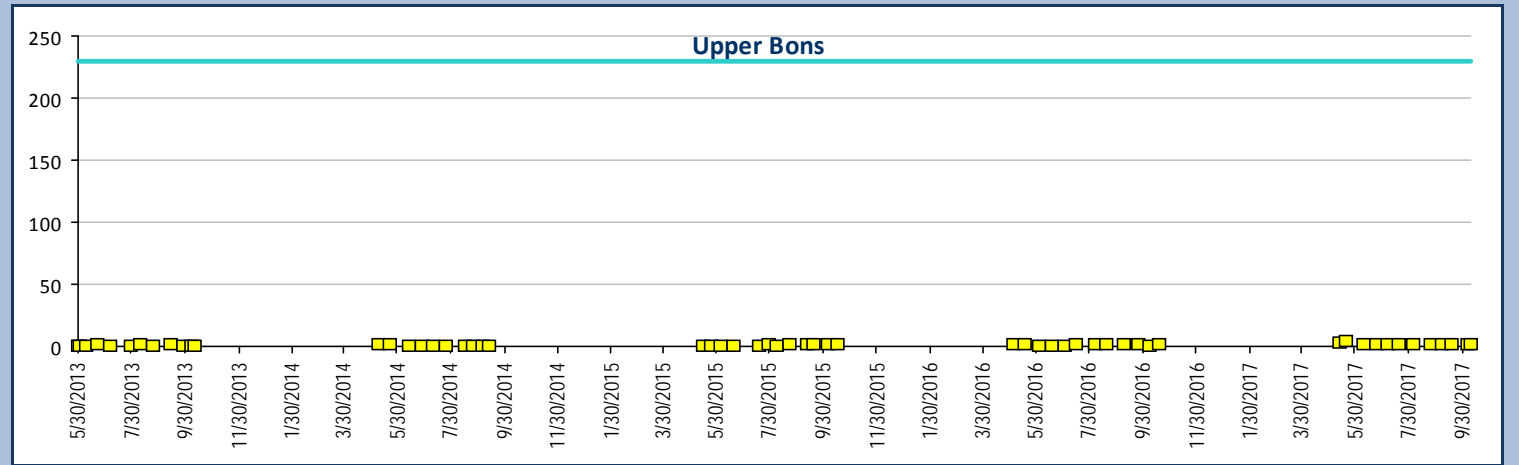
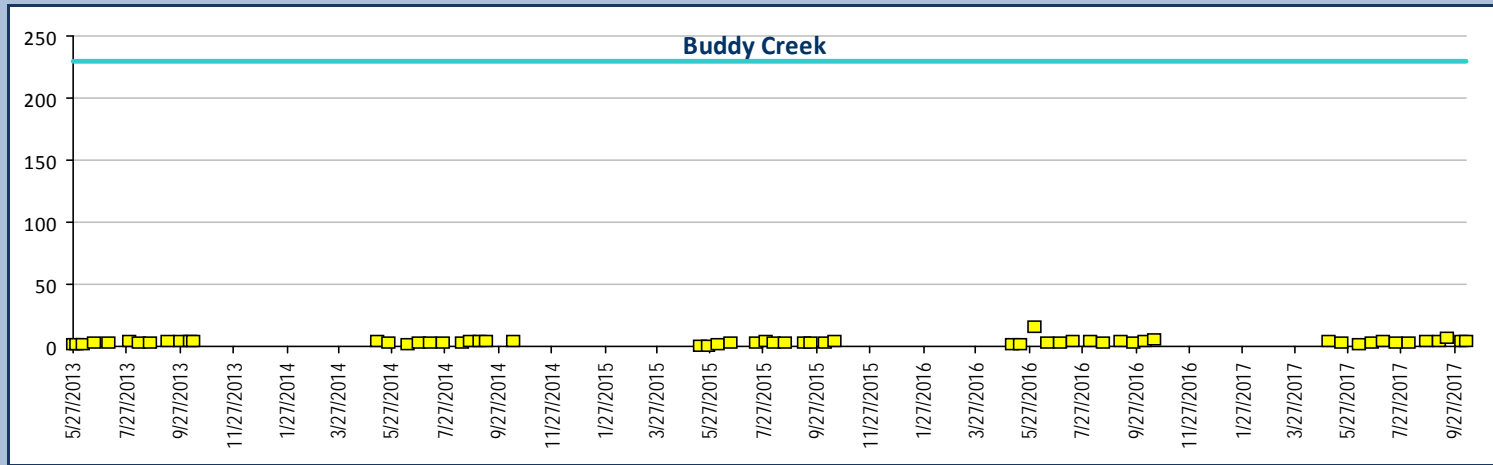
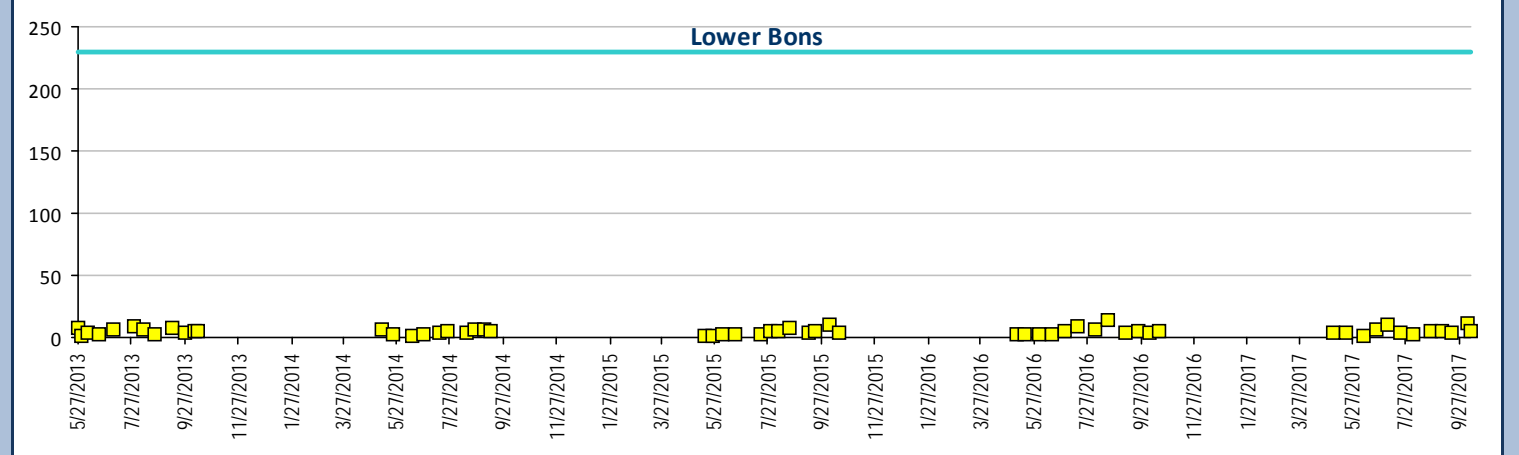


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Chloride, Total recoverable, units mg/L

Aquatic Life - Fresh Water Chronic WQS mg/L

230 mg/L





Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

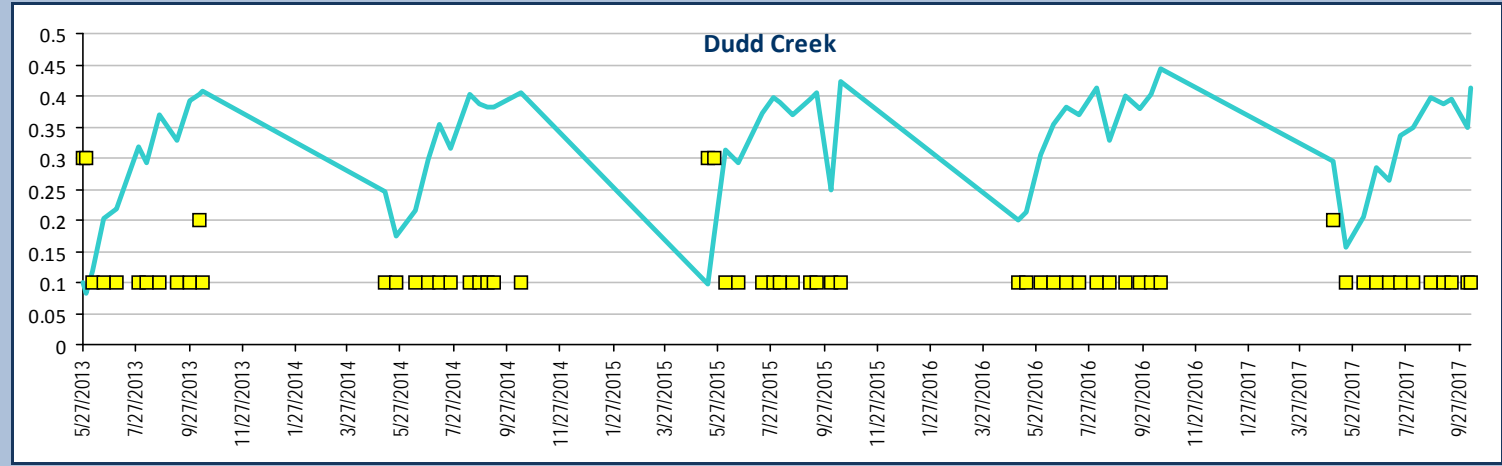
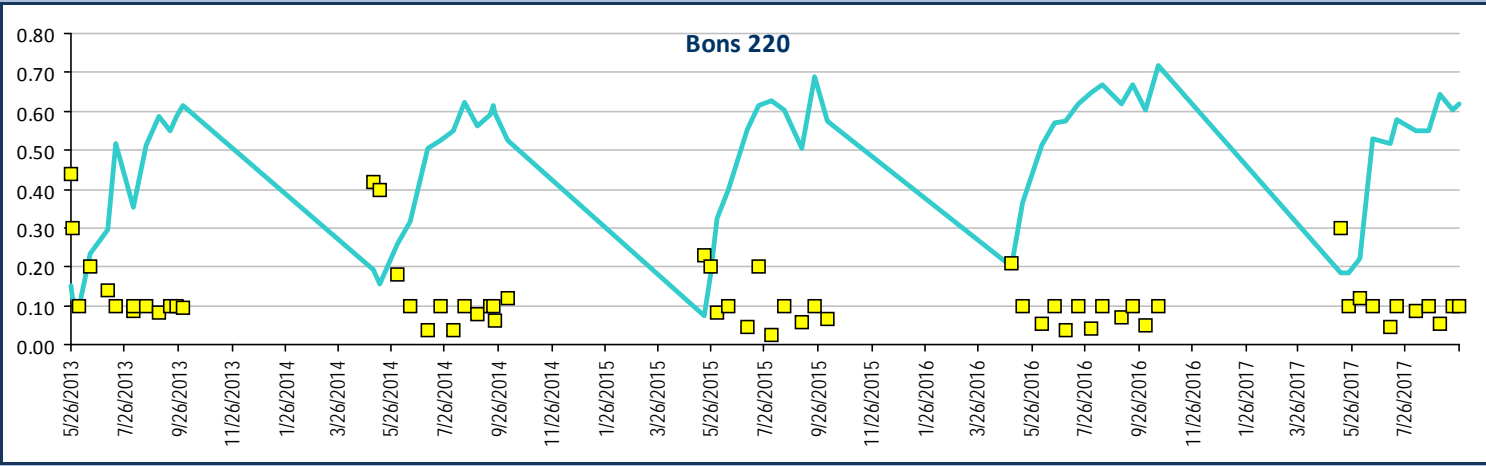
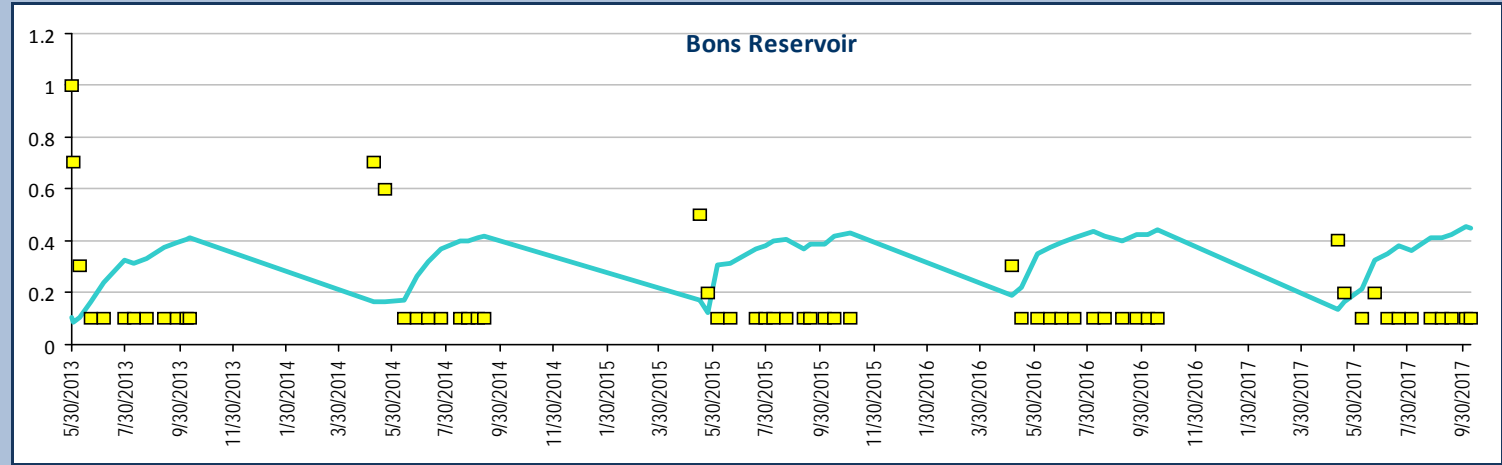
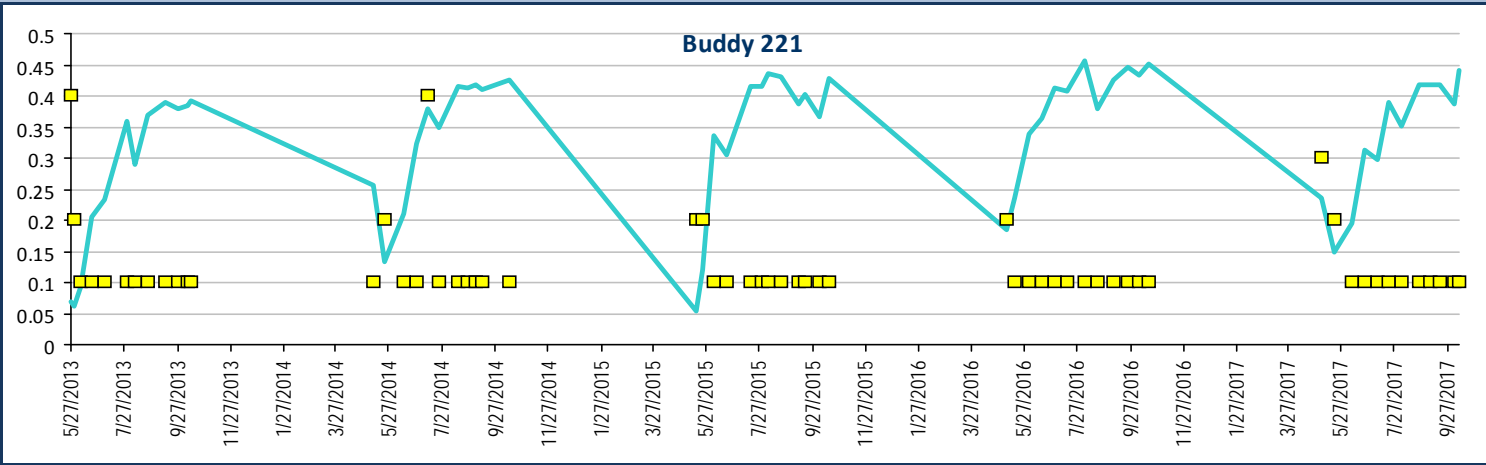
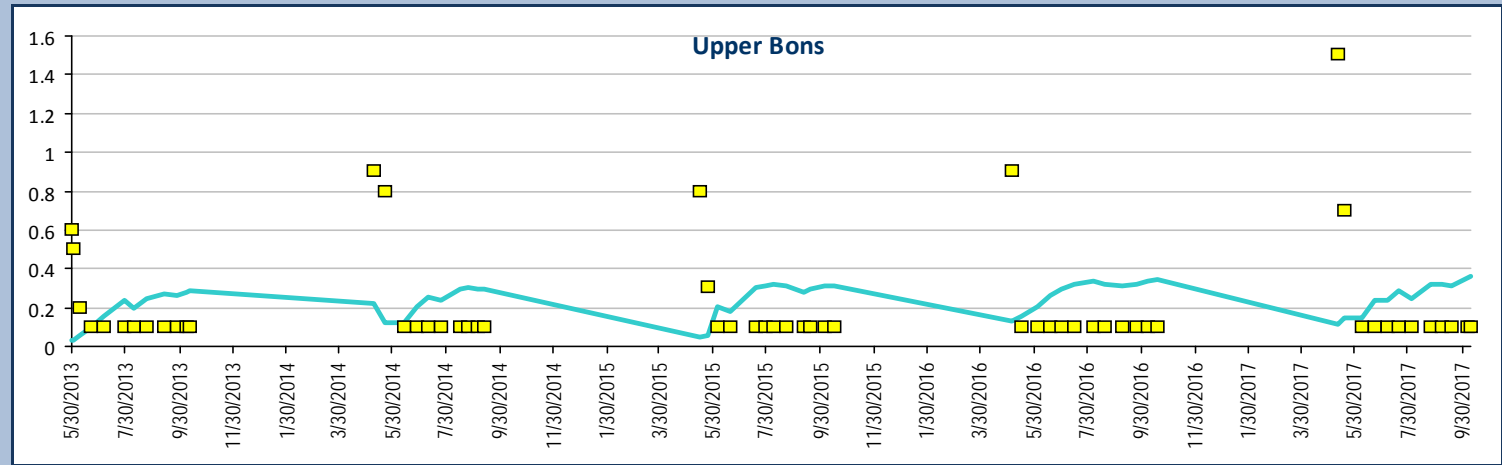
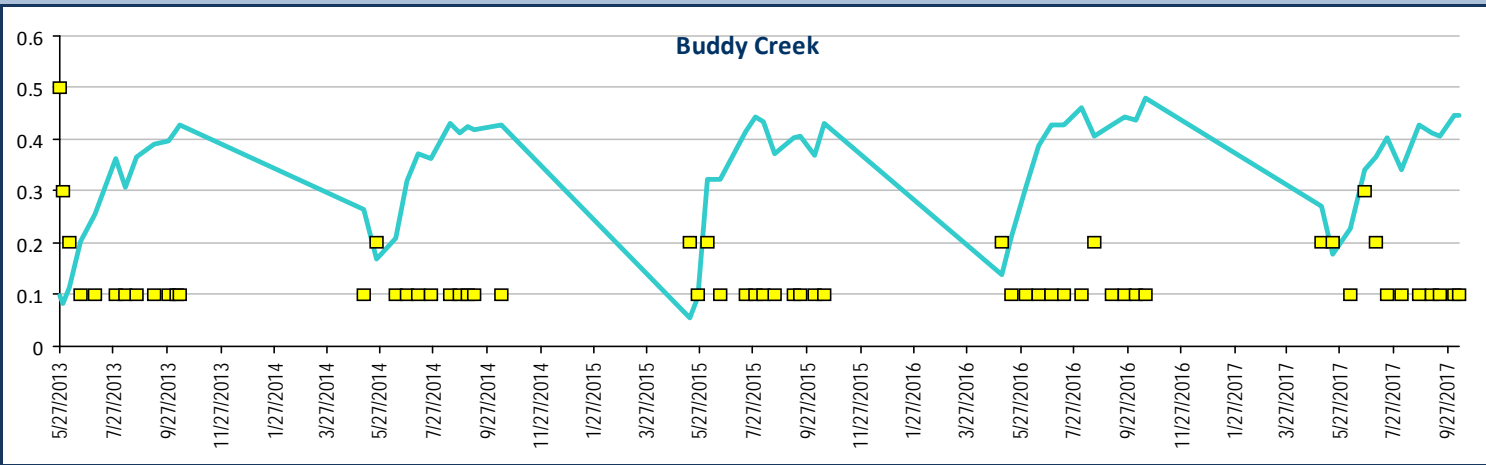
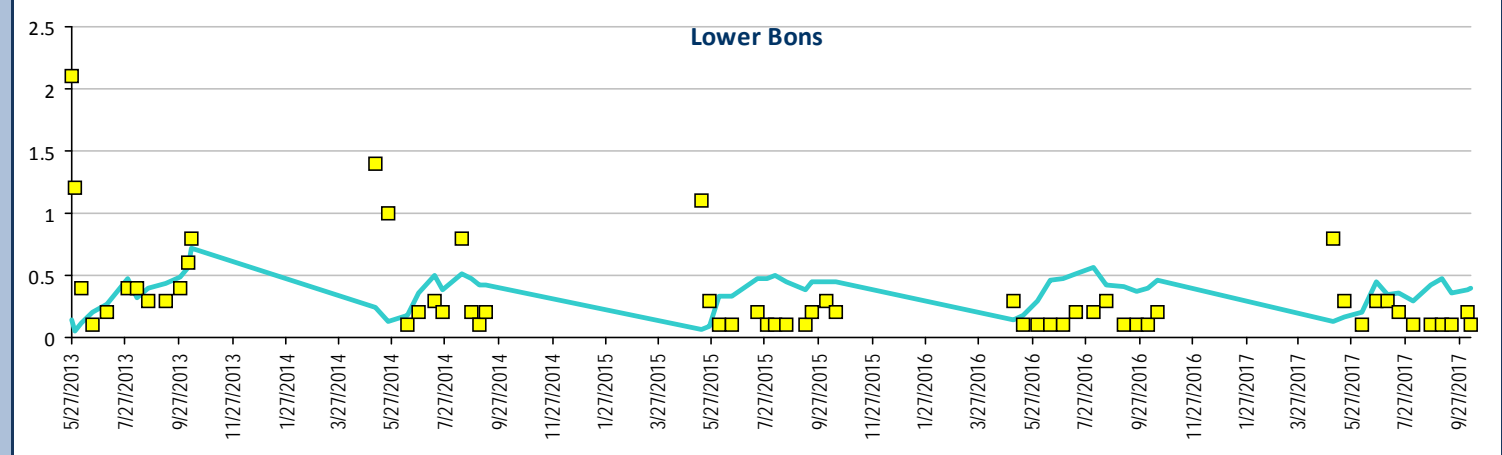
Cadmium, Total Recoverable, units ug/L

Aquatic Life - Fresh Water Chronic WQS ug/L

Hardness Dependent Calculation

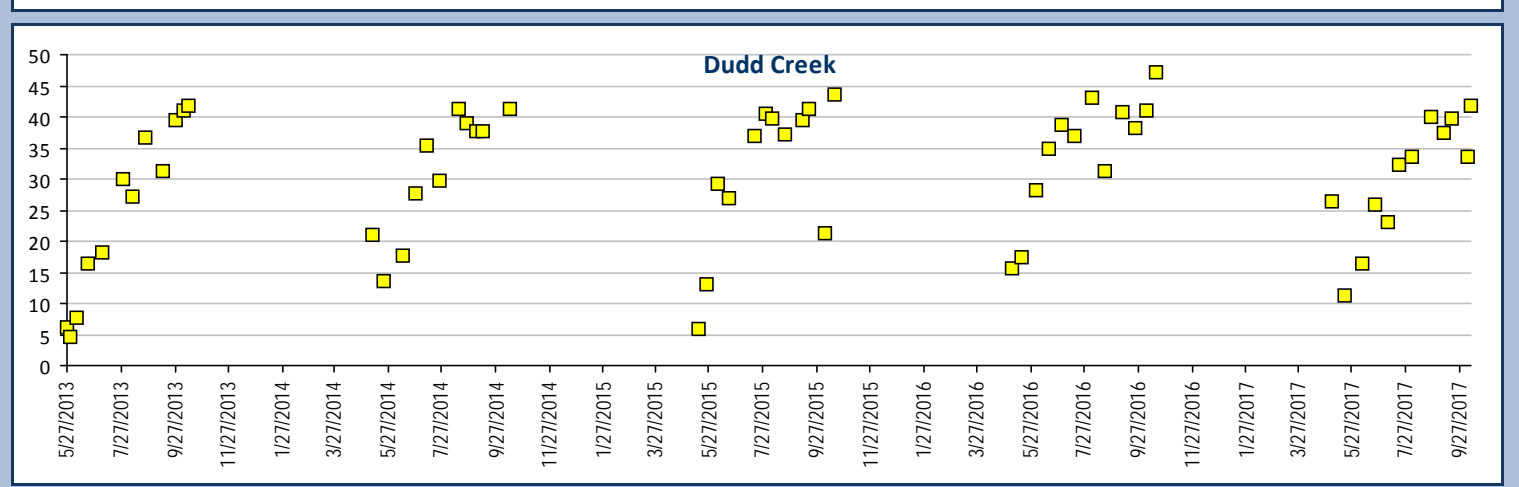
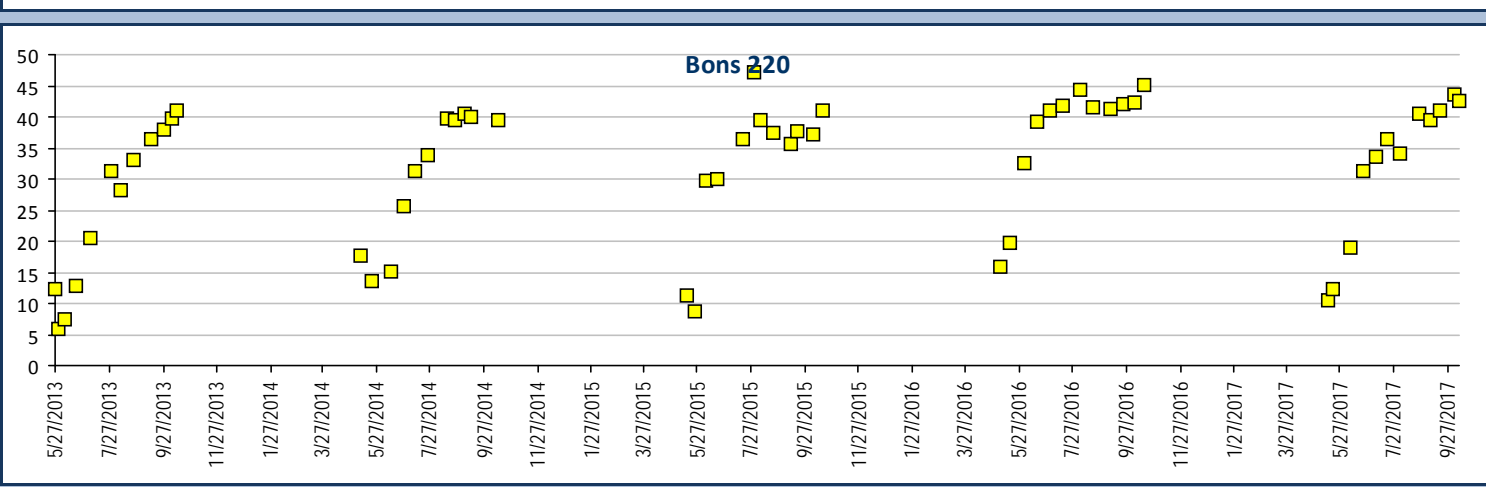
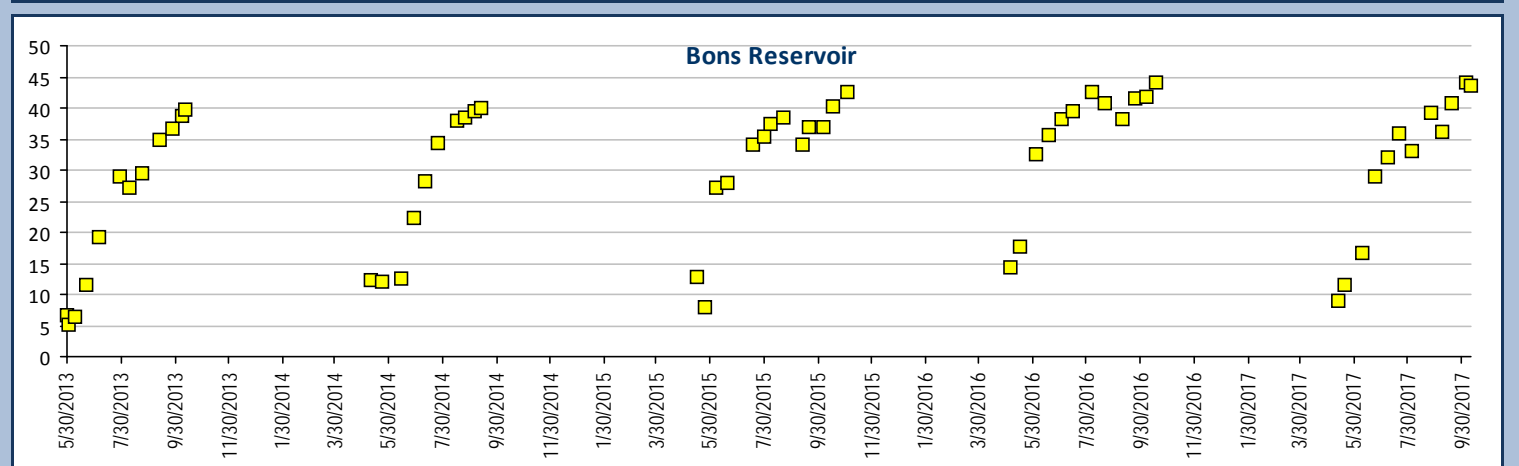
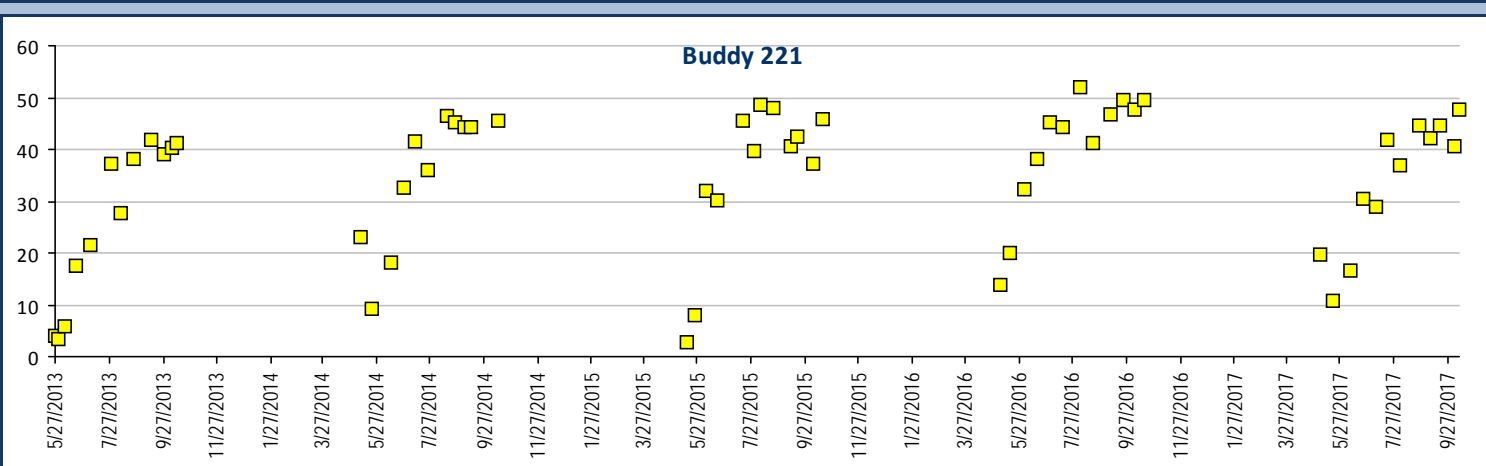
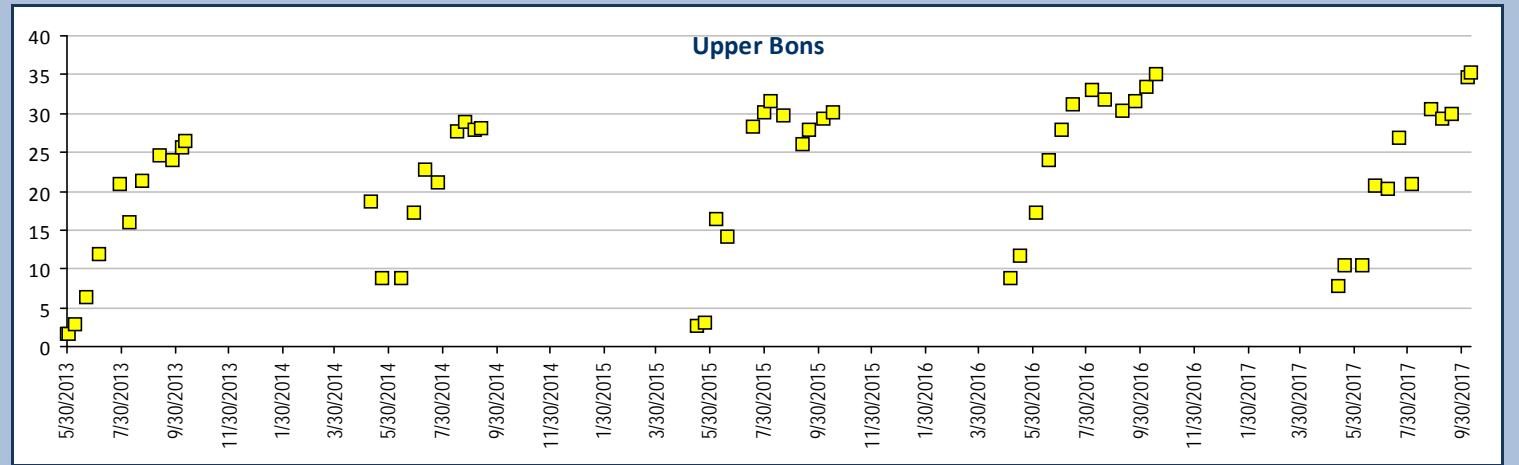
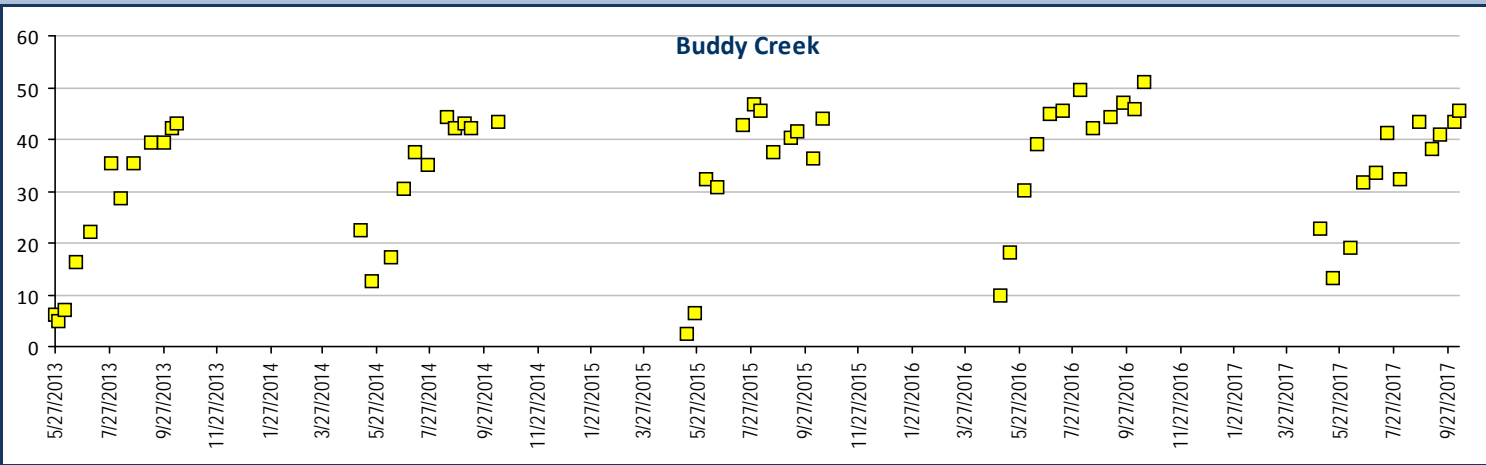
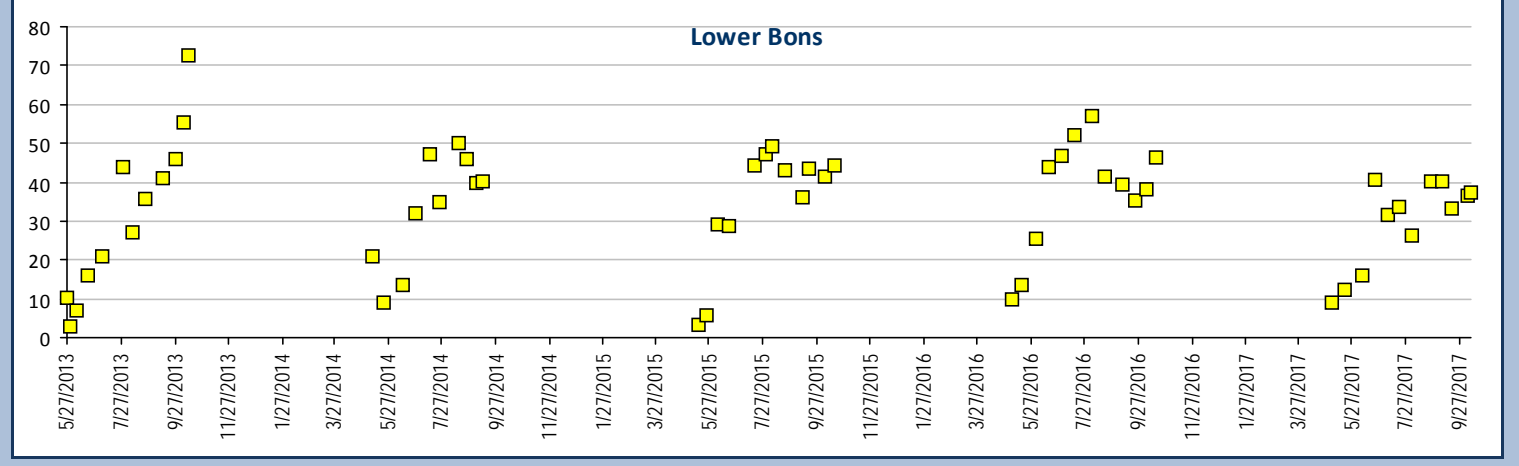
$$=EXP(0.7409*(LN(calc *hardness))-4.719)$$

* Calculated using Standard Methods 2340B





Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts Calcium, Total Recoverable, units mg/L



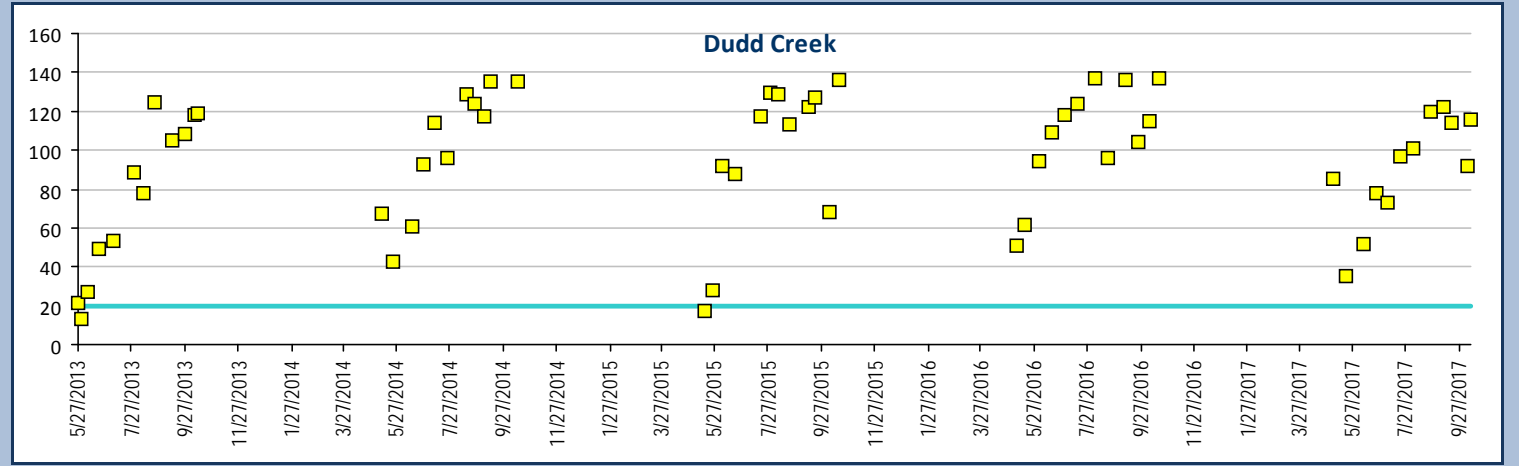
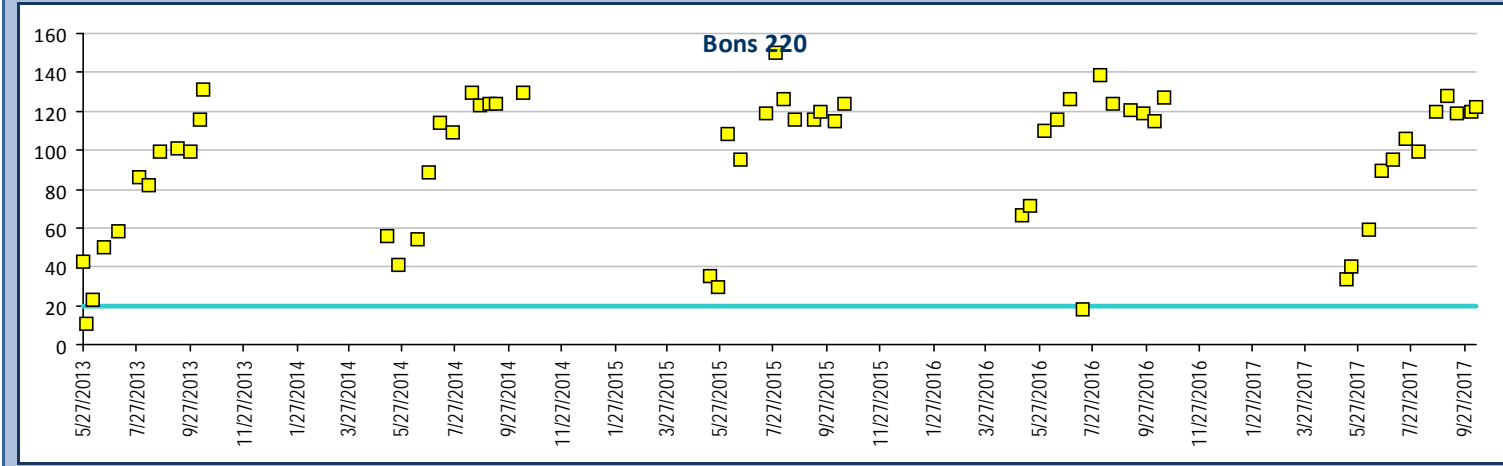
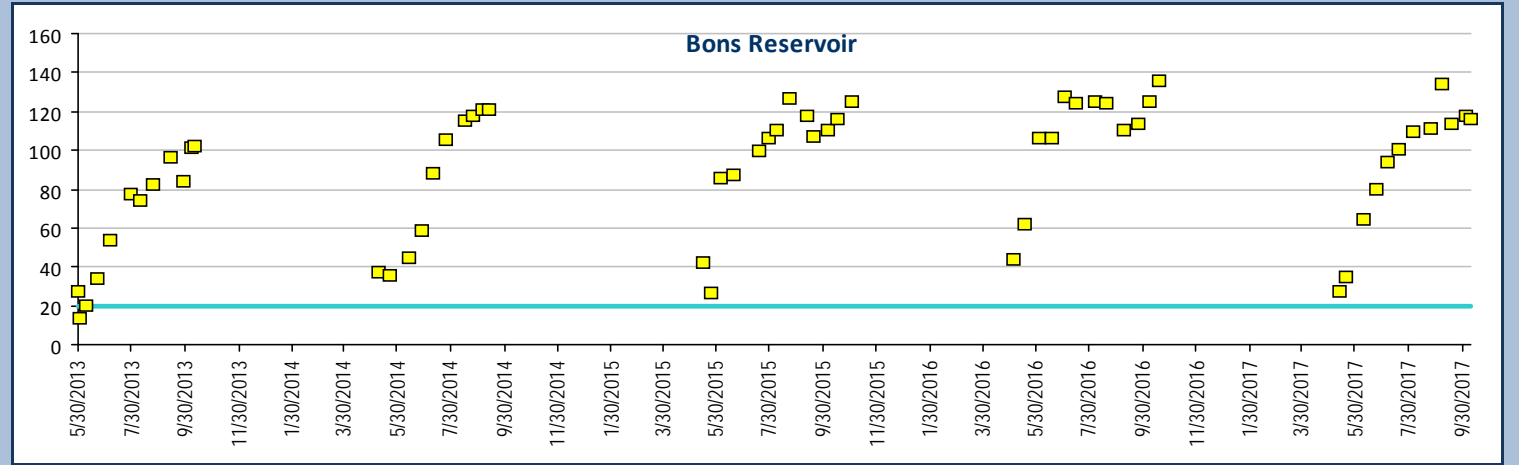
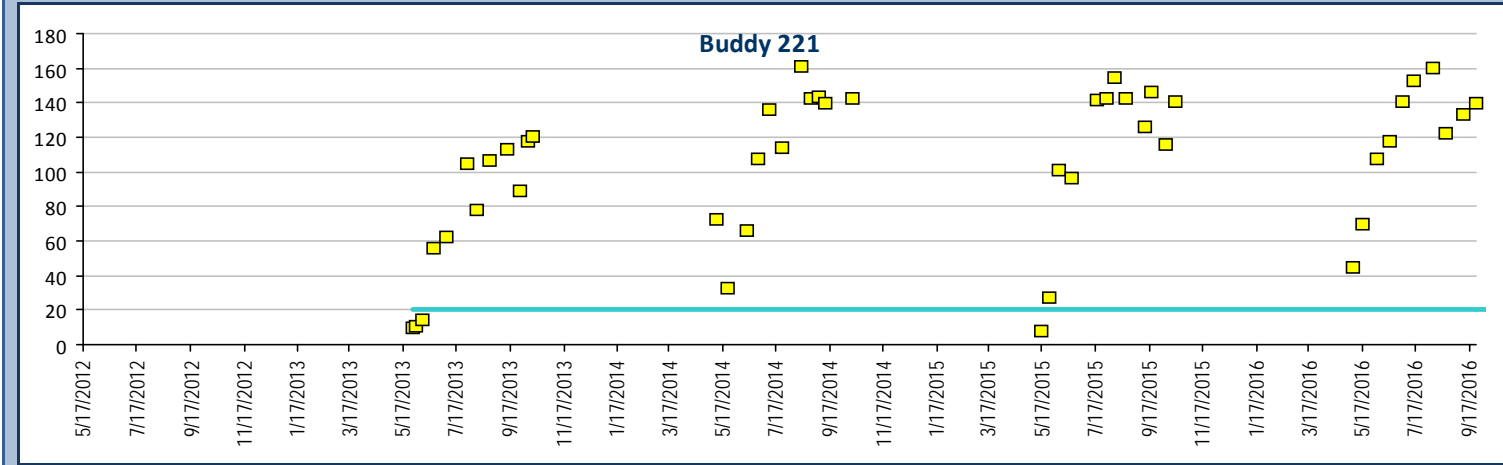
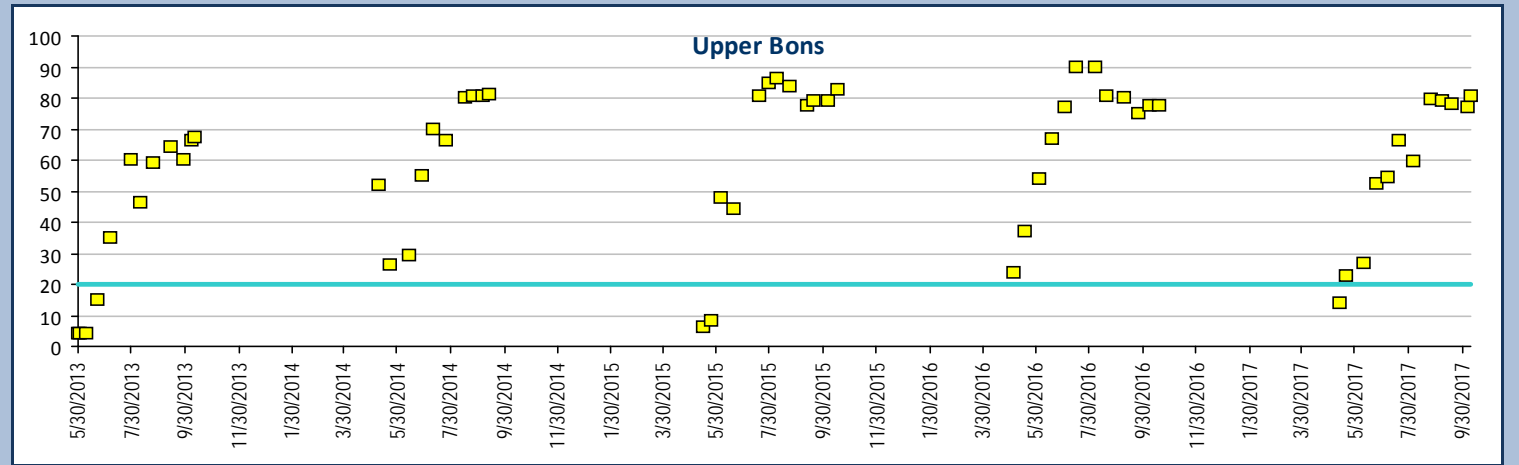
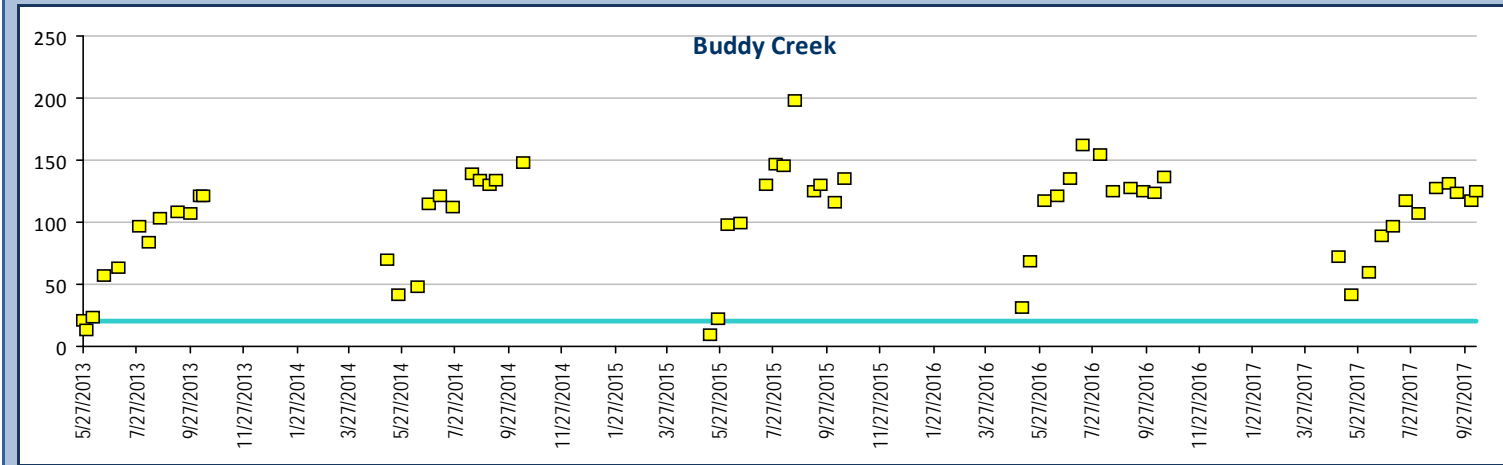
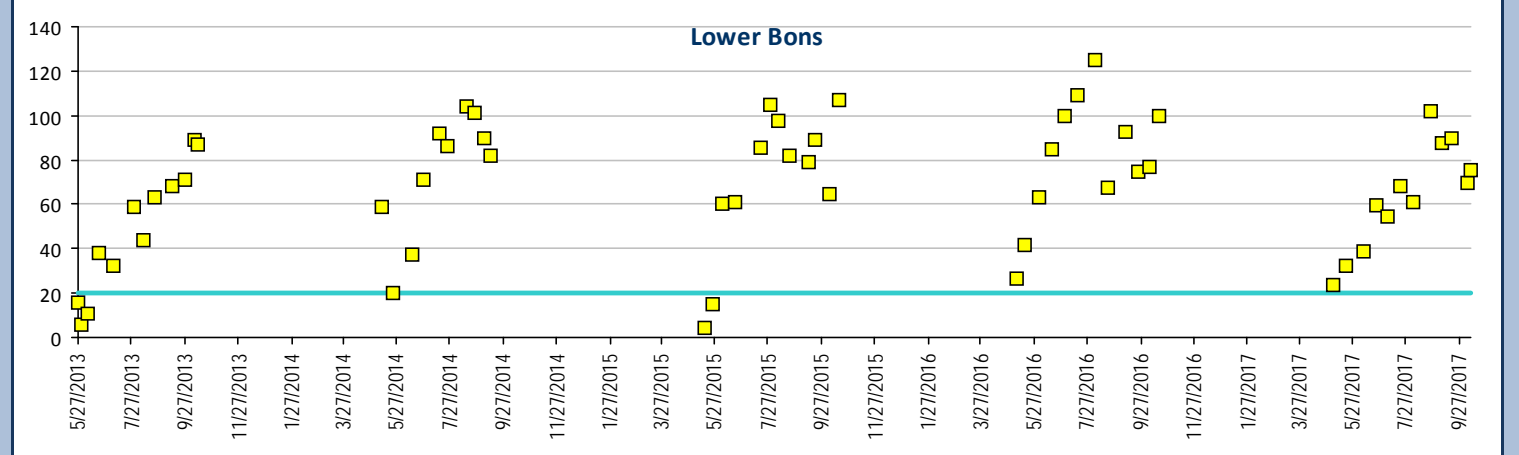


Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Alkalinity (as CaCO₃), units mg/L

Aquatic Life - Fresh Water Chronic WQS mg/L

20 mg/L minimum





Water Monitoring Bons Creek Drainage Water Quality Profile I, 5-Year Trend Charts

Aluminum, Total Recoverable, units mg/L

Aquatic Life - Fresh Water Chronic WQS mg/L

If pH > 7 and hardness > 50. then WQS = 0.75mg/l

