Appendix D: Water Quality Profile I Charts – Bons Creek Monitoring Stations
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 = 0.75 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
Calcium, Total Recoverable, units mg/L
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
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

Conductivity, units uS/cm

Buddy Creek

Upper Bons

Buddy 221

Bons Reservoir

Bons 220

Dudd Creek
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

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

Magnesium, Total Recoverable, units mg/L

Buddy Creek

Upper Bons

Buddy 221

Bons Reservoir

Bons 220

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

Sodium, Total Recoverable, units mg/L

Buddy Creek

Upper Bons

Buddy 221

Bons Reservoir

Bons 220

Dudd Creek
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

=EXP(1.273*(LN(calc * hardness))-4.705)

* Calculated using Standard Methods 2340B

Buddy Creek

Upper Bons

Buddy 221

Bons Reservoir

Bons 220

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

Selenium, Total Recoverable, units mg/L
Aquatic Life - Fresh Water Chronic WQS ug/L
0.005 ug/L

Buddy Creek
Upper Bons
Buddy 221
Bons Reservoir

Bons 220
Dudd Creek
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 Suspended Solids, units mg/L
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