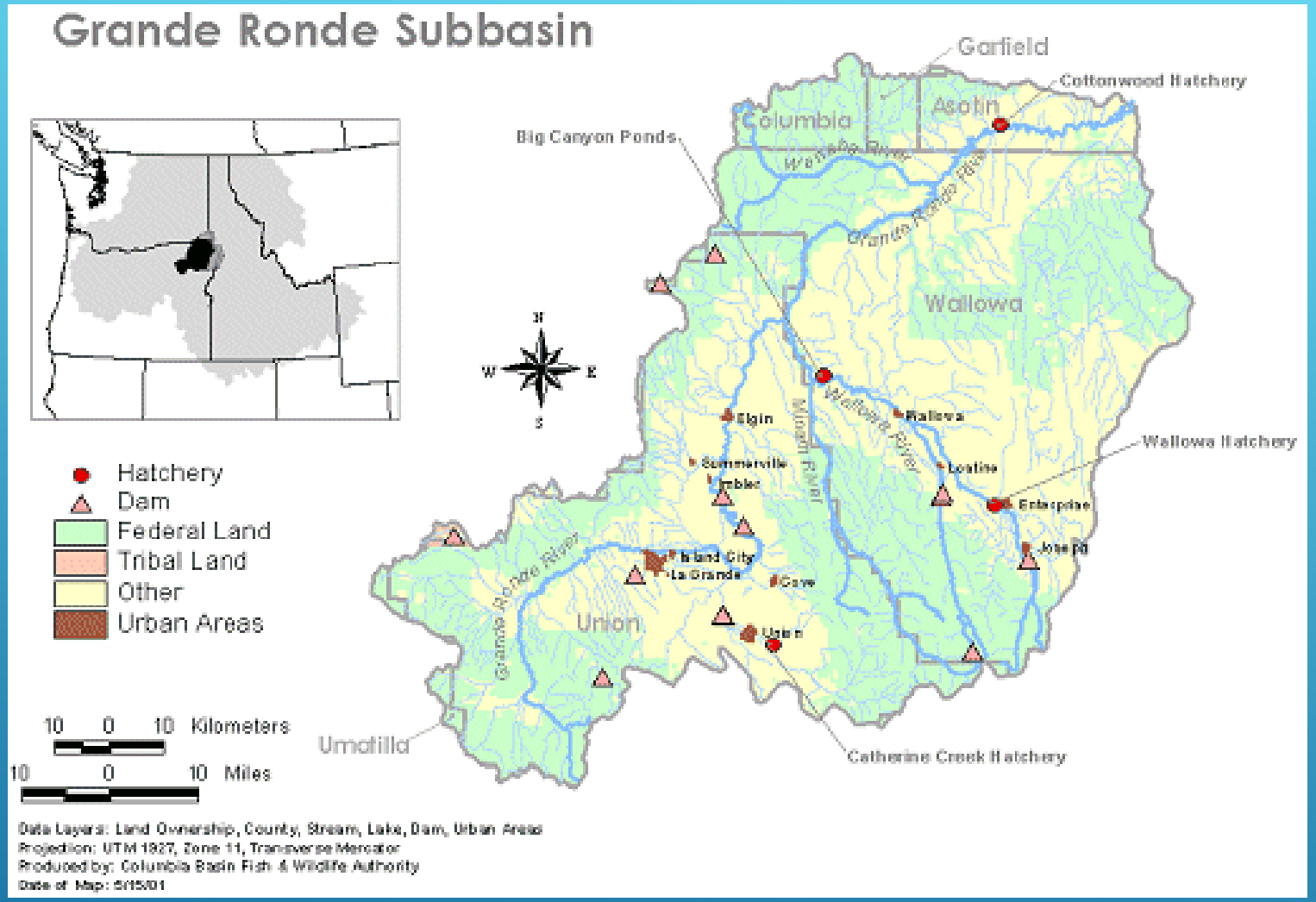
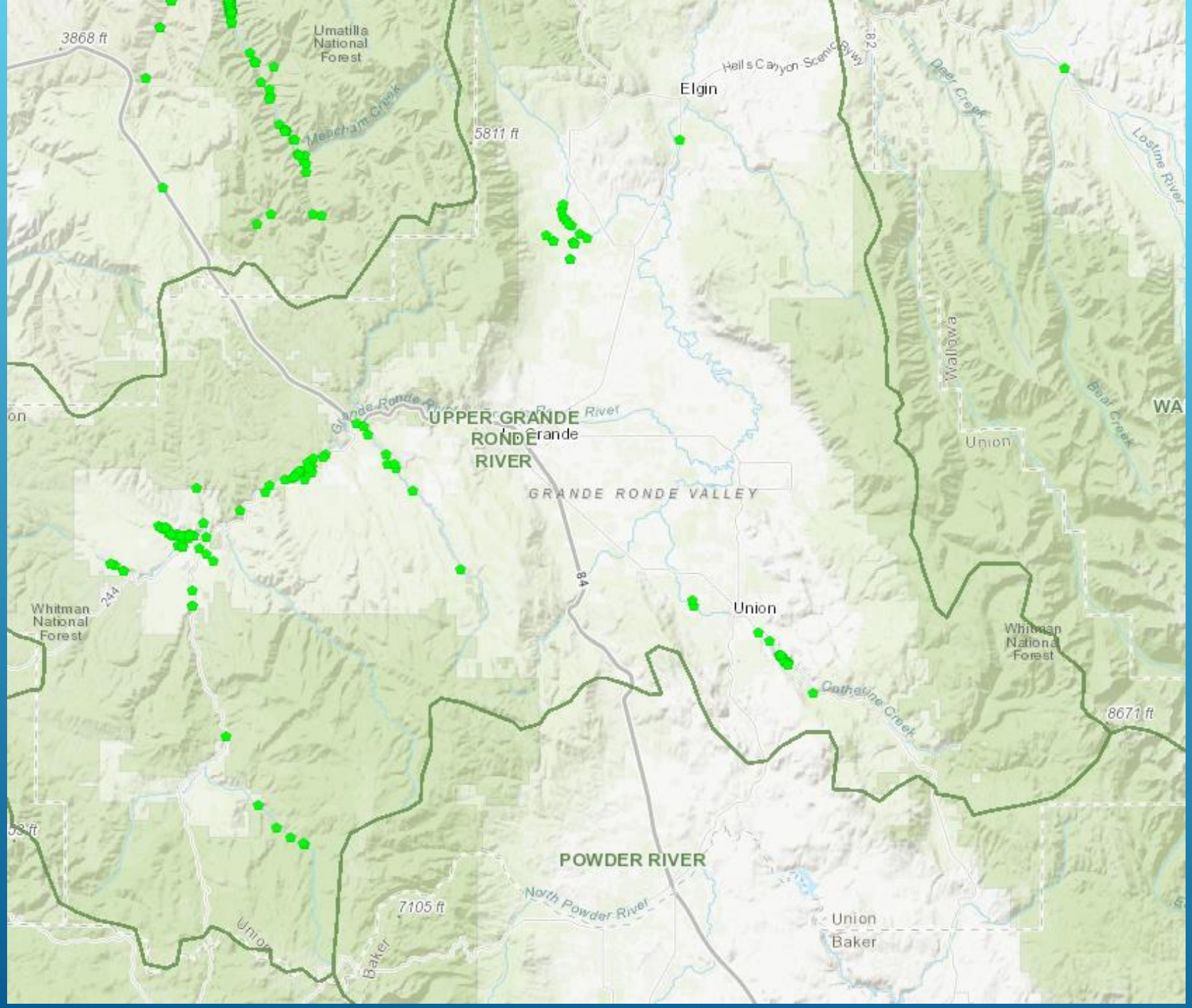
CTUIR GRANDE RONDE HABITAT TEMPERATURE MONITORING



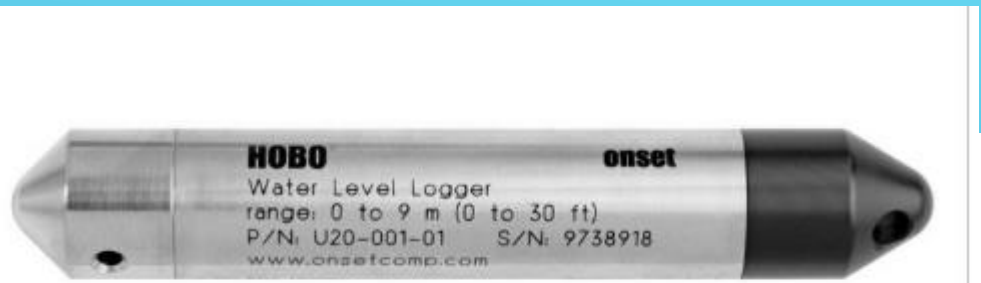
TEMPERATURE MONITORING 1997-PRESENT



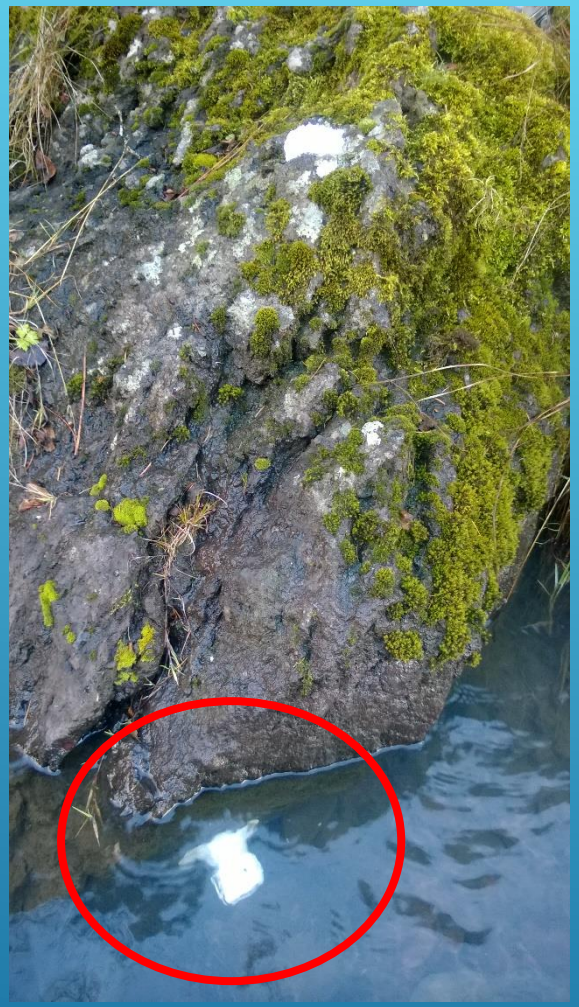
64 SURFACE &

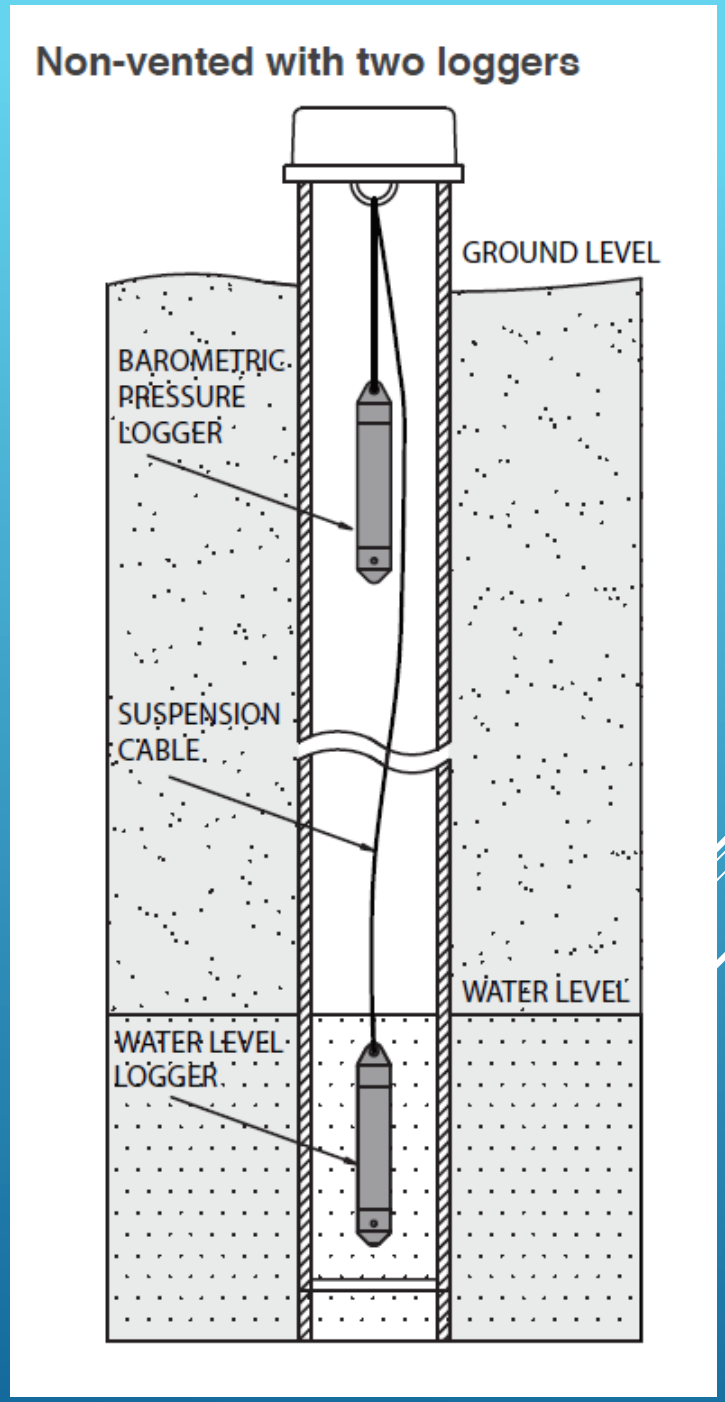
21 GROUNDWATER WELLS

CURRENTLY MONITORED FOR TEMPERATURE



LOGGER TYPES

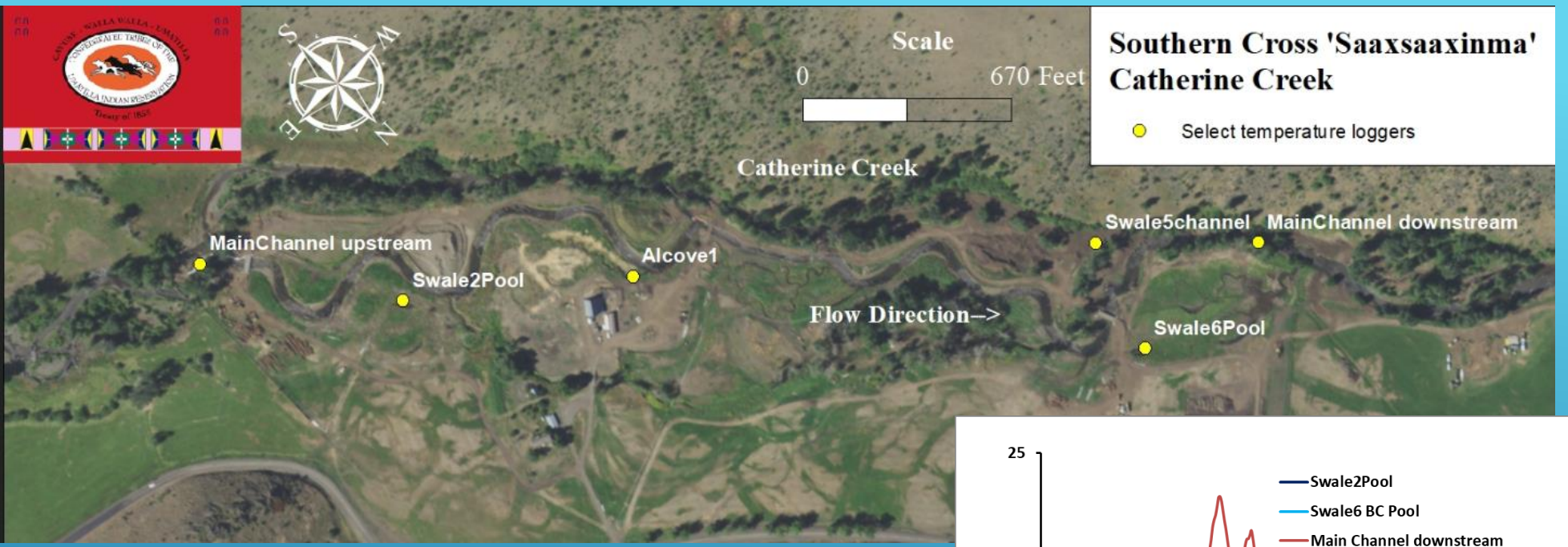




TEMPERATURE MONITORING INSTALLATIONS

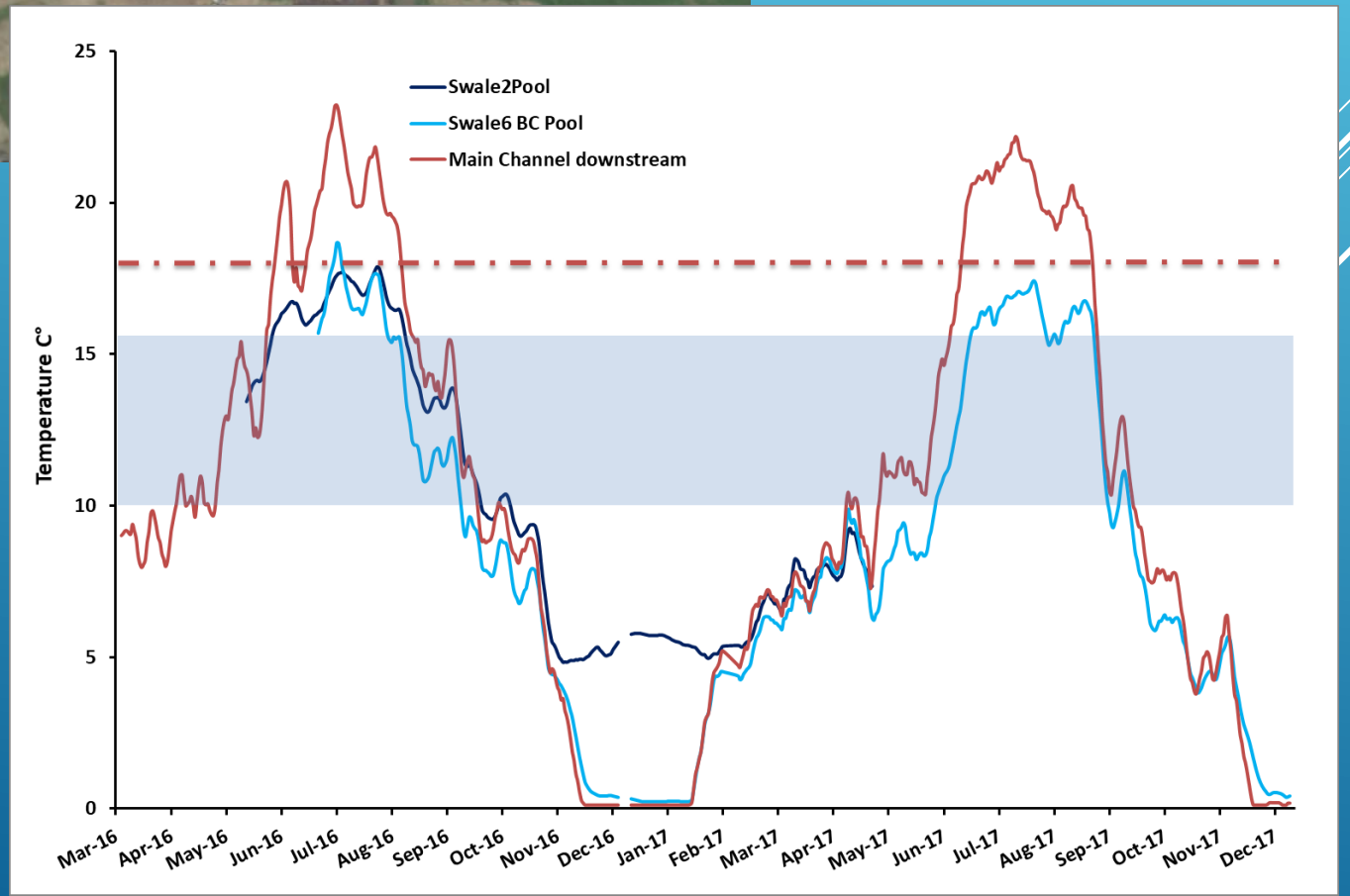
OBJECTIVES

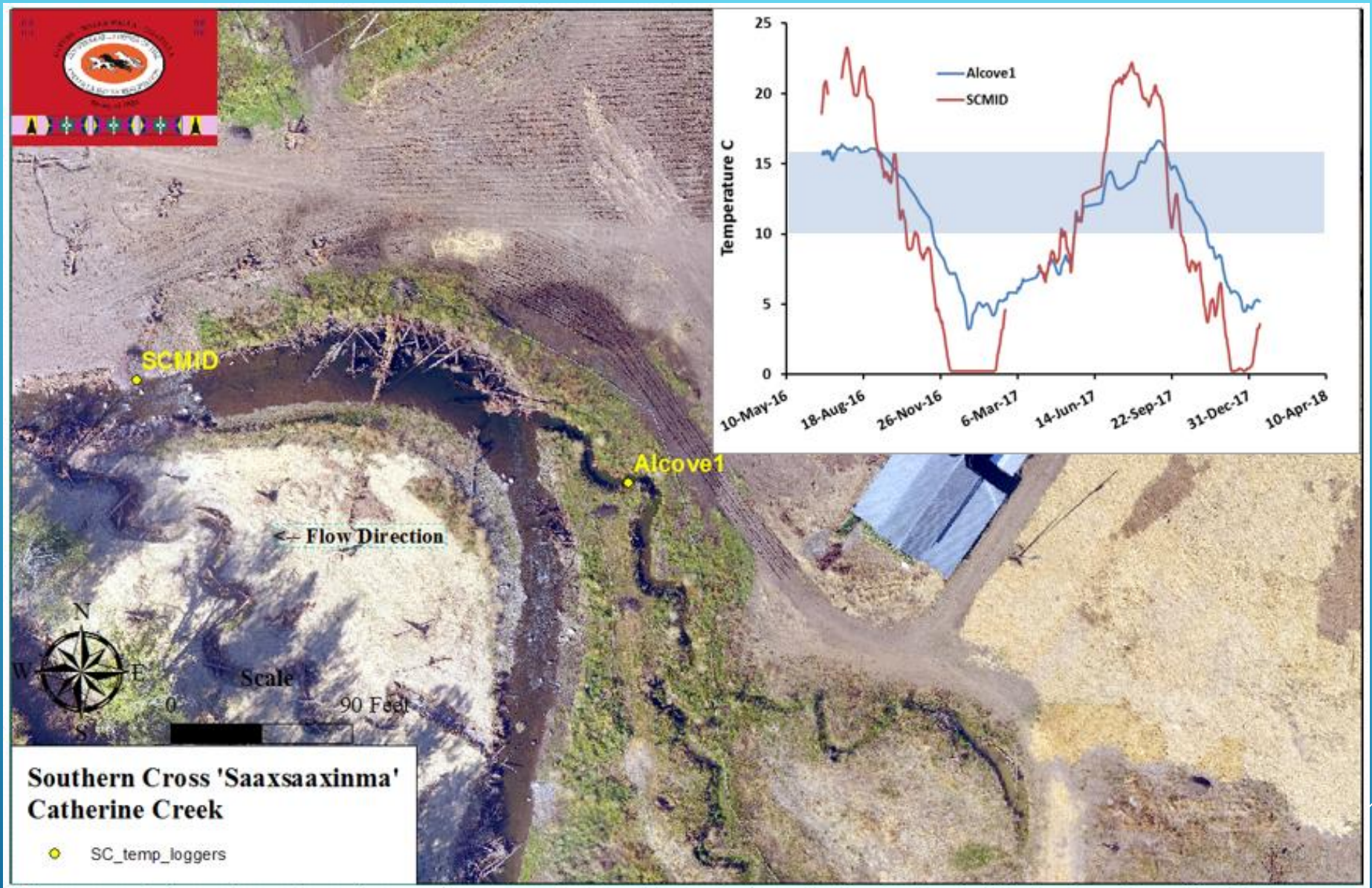
- Monitor restoration work pre and post construction
- Detect change in temperature (diel & seasonal)
- Support project development and meet project goals
- Correlate with fish use



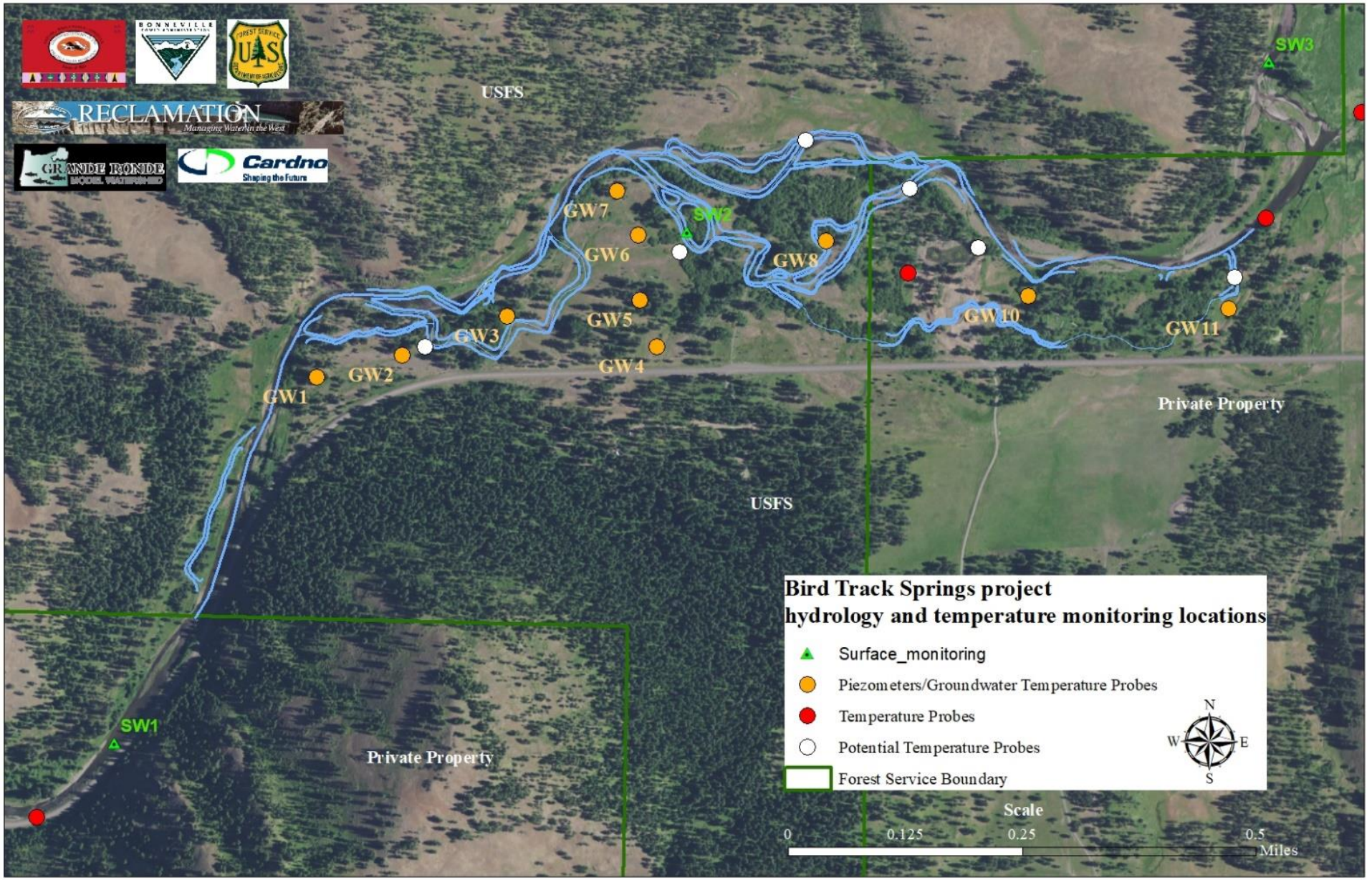
PROJECT MONITORING

- Saaxsaaxinma – Kingfisher Catherine Creek floodplain restoration

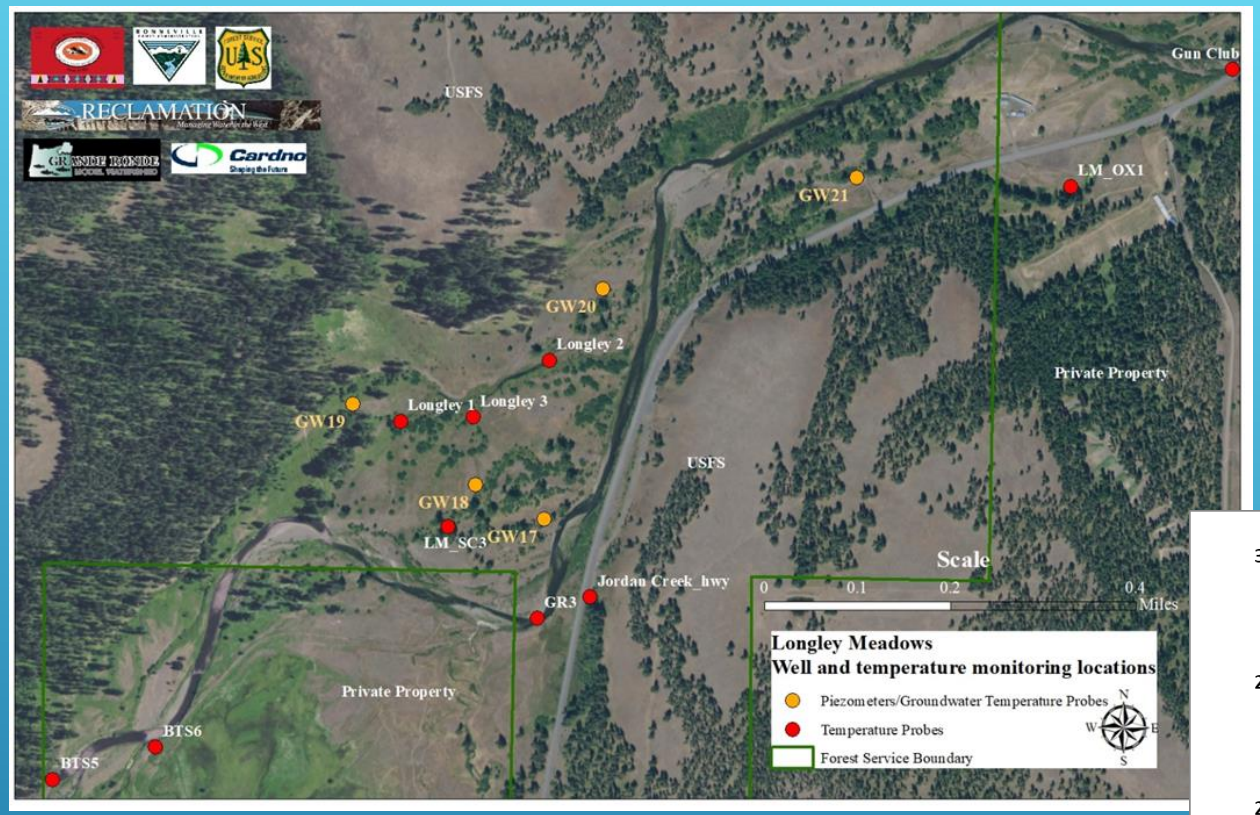




7 day average daily maximum stream temperatures at an alcove and the main stem of Catherine Creek at the Southern Cross fish habitat restoration project for June 2016 mid-January 2018. Note inverse relationship between temperatures and preferred ranges for juvenile salmonids (10-15°C).

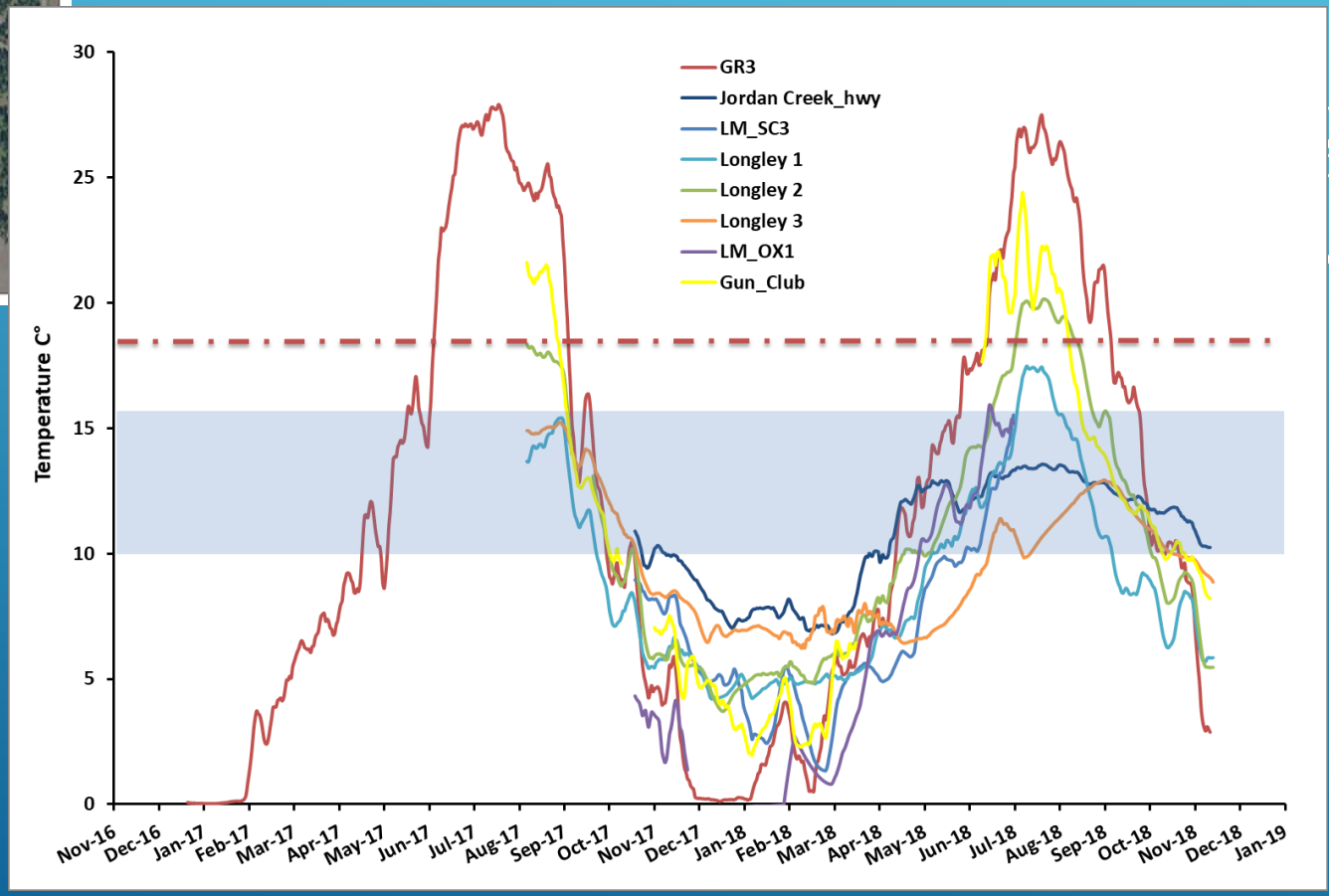


BIRD TRACK SPRINGS & LONGLEY MEADOWS

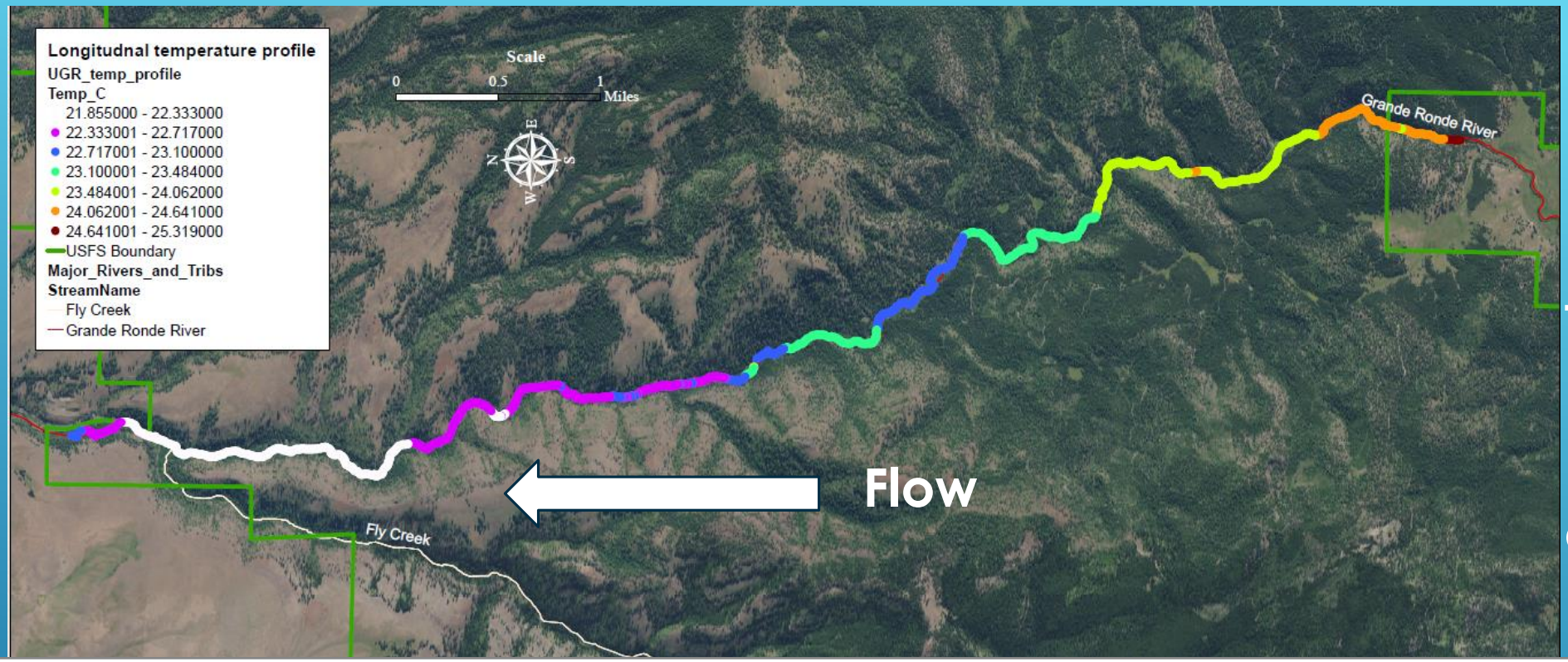


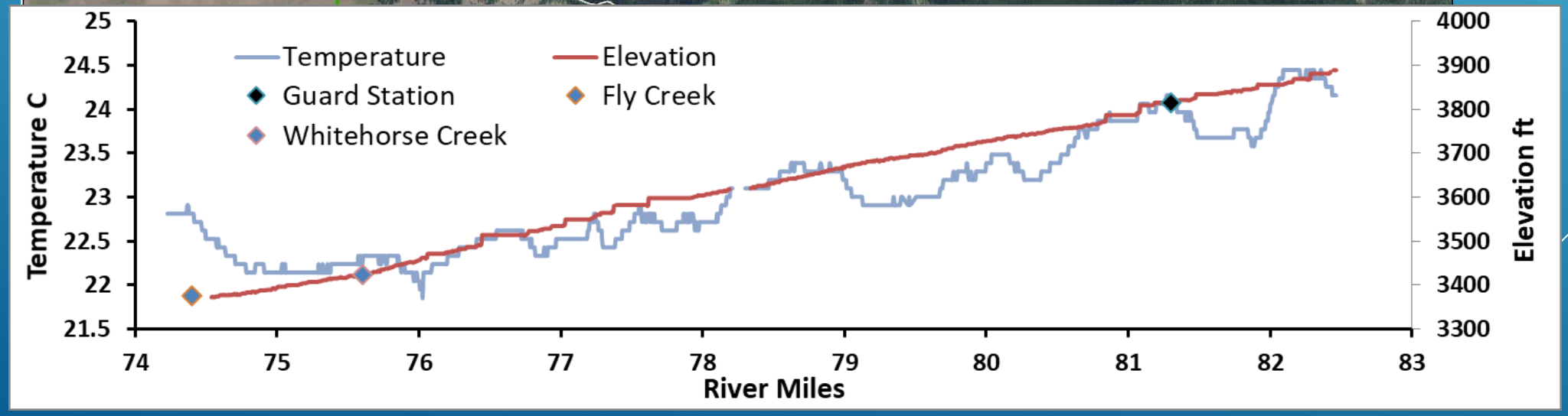
COLD WATER ANALYSIS

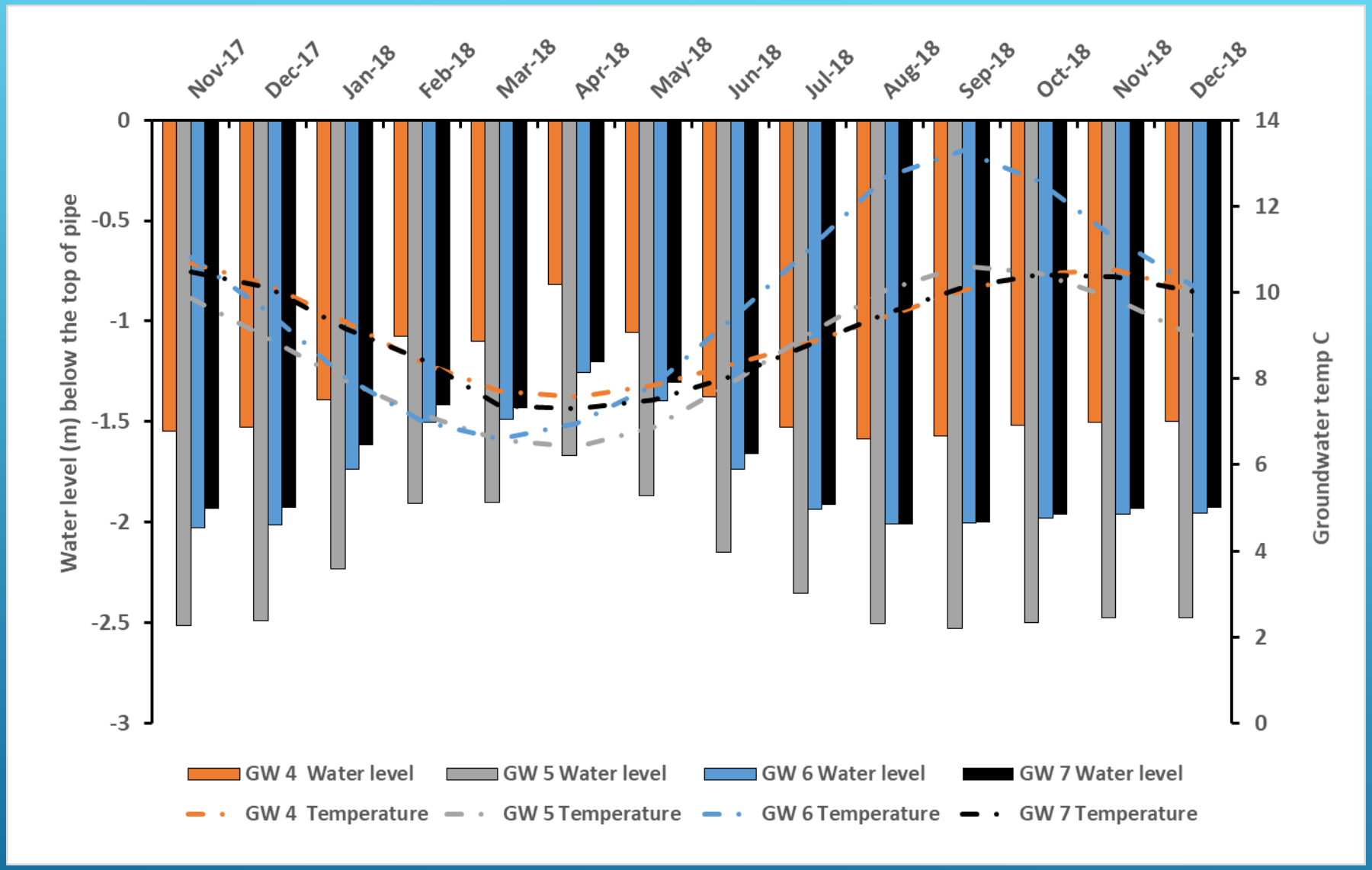
- Cold water present in project area &
- Correlated with fish use



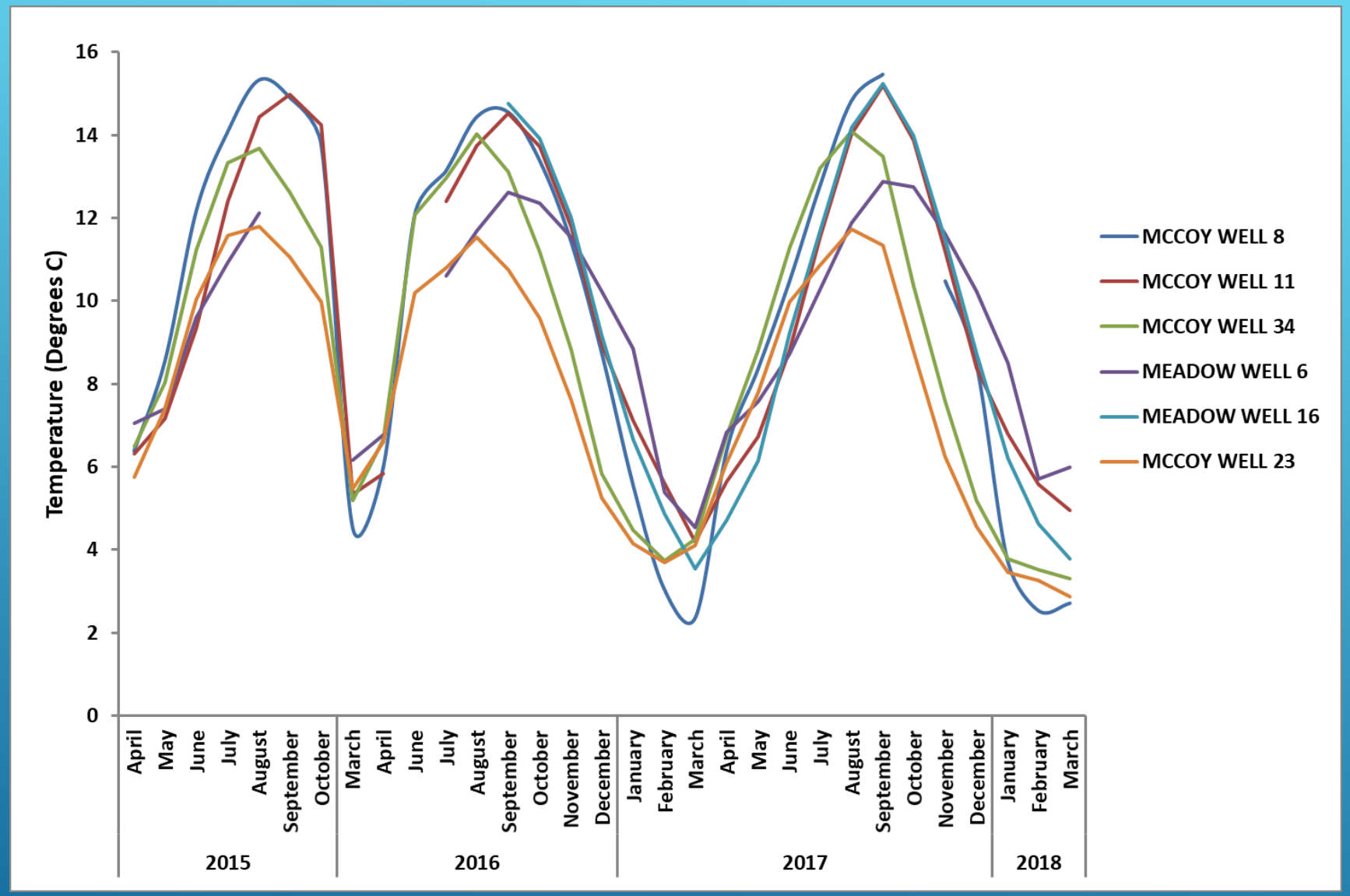
GRANDE RONDE RIVER TEMPERATURE PROFILE 8/29/2017







SELECT GROUNDWATER TEMPERATURE FROM BIRD TRACK SPRINGS



MCCOY AND MEADOW CREEK GROUNDWATER TEMPERATURE

FUTURE DIRECTION

- Monitor surface water discharge and temperature at Rock Creek Longley Meadows and Bird Track
- Prioritize temperature monitoring to fit within constraints of budget and time
- Update loggers and test new technology
- Assist ongoing research efforts in temperature/restoration relationships