WATER QUALITY MONITORING
YELLOWTAIL AFTERBAY
BIGHORN RIVER

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November 16, 2017
PROJECT GOAL
PSAT temporal variability and spatial distribution

Total Gas Supersaturation (PSAT)
Pressure relative to barometric pressure exerted on biological systems from gases dissolved in water

Ideal conditions are less than 110%

PSAT (%) = [(BP) + (TDG - BP)] / BP * 100
BP = Barometric pressure
TDG = Total dissolved gas
# Three Water Quality Stations

**Afterbay**
- Left Bank
- Right Bank

## Station Equipment
- Data collection platforms
- Primary and auxiliary DCP
- Multi-parameter instruments
- GOES satellite telemetry
- Afterbay-floating instrument
- River-stationary instrument
- Hourly data

## Parameters
- Depth
- Temperature
- Total dissolved gas
- Dissolved oxygen
- Specific conductance
- pH
- Barometric pressure
LEFT BANK
Currently conducting qualitative analysis of the data
Hourly data will be available at:
https://www.usbr.gov/gp/hydromet/

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