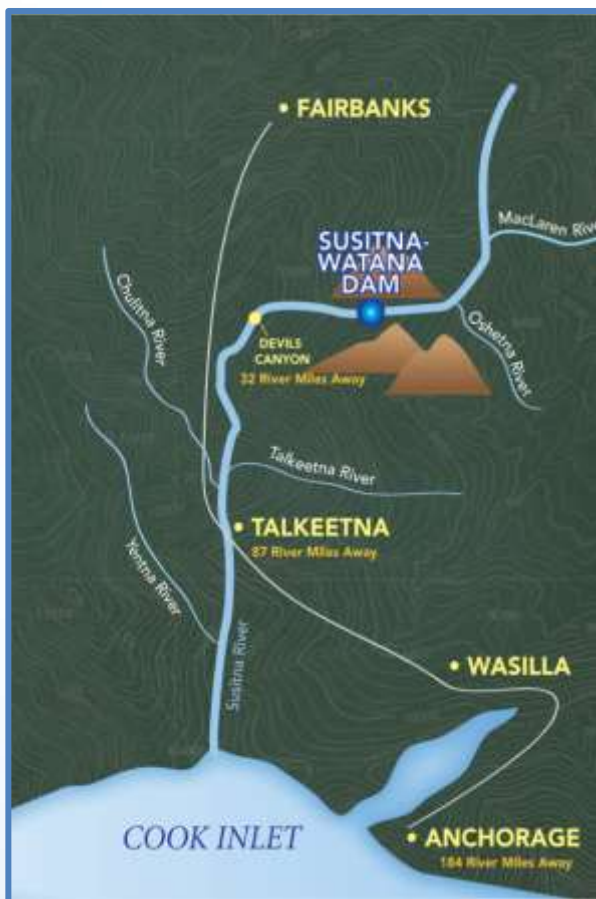


Instream Flow Technical Team Meeting *Riverine Modelers*

IFS Conceptual Framework

*November 13-15,
2013*

Adapted from RSP
Figure 8.5-10



Prepared by R2 Resource
Consultants

DRAFT – Subject to Revision

Dam/Reservoir Operations Model (8.5.4.3.2)
Existing, Proposed and Alternate Operational Scenarios

Geomorphic Reach (6.5)
Habitat Mapping (9.9)
Focus Area Selection (8.5)

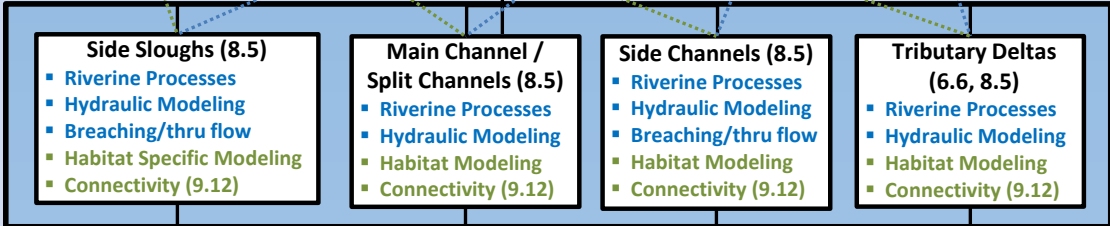
Hydrology (8.5.4.4)
▪ Accretion
▪ Tributary diurnal fluctuations

Biological Information
▪ Periodicity (9.6, 8.5.4.5)
▪ Distribution and abundance(9.6, 9.12,8.5.4.5)
▪ Seasonal Habitat Utilization (9.6, 8.5.4.5)
▪ HSC/HSI(8.5.4.5, 9.6)

Mainstem Flow Routing Open-water and Ice Cover (7.6, 8.5.4.3)
▪ Attenuation
▪ Celerity
▪ Hourly Q, WSE by River Mile

Habitat Specific Models (8.5.4.6) (see Figure 8.5-10b)
▪ Effective Spawning/Incubation
▪ Salmonid Rearing (open-water)
▪ Salmonid Rearing (ice-cover)
▪ Varial Zone/River Productivity
▪ Adult salmon connectivity (9.12)
▪ Juv salmon connectivity (9.12)

Riverine Processes
▪ Geomorphology (6.0)
• Sediment Transport
• Future Channel Changes
▪ Ice Processes (7.6)
▪ Groundwater (7.5)
▪ Water Quality / Temperature (5.6)



Habitat Evaluation Metrics
Hourly / Daily / Monthly by Existing, Proposed , and Alternate Operational Scenarios

Decision Support System (8.5.4.8)
▪ Fish Habitat
▪ Riparian
▪ Wildlife
▪ Cultural
▪ Recreation
▪ Transportation
▪ Water Quality
▪ Geomorphology
▪ Project Economics
▪ Other

Other Resource Models/Metrics