

## **Barkley Sd WSP Pilot: Assembly, analysis and reporting priorities for a “worked example” of Strategy-3 indicators applied to the combination of wild sockeye CUs and their operational ecosystem units (OEU).**

### **Ocean OEU Focus:**

- (1) Marine survival paper for Cohen-I, Fisheries and/or CJFAS.
- (2) Alberni Inlet temp-O2 “squeeze” in warm vs cold-phase PDO paper
- (3) Barkley Sd sockeye 4-cast paper.

### **Riverine OEU Focus:**

- (4) Somass Basin temperature reconstruction paper.
- (5) Somass River sockeye migration delay report (POT<sub>20</sub> analysis).
- (6) Clemens Ck and Hen Lk and Hen River temp reconstruction.
- (7) Clemens Ck and Hen Lk and Hen River precip & discharge reconstruction.

### **Nursery Lake OEU Focus:**

- (8) Hen Lk long-term fertilization effects on community biodiversity, sockeye productivity and nursery lake carrying capacity.
- (9) GCL-Sproat food-web controls on sockeye density-dependence (of growth and/or survival) and influence on carrying capacity estimates.
- (10) GCL-Sproat spawn area, time and depth report.

### **Riverine and Lake Spawning OEU Focus:**

- (11) Escapement & habitat use history at Clemens Ck: spawn area, time & habitat state report.
- (12) Escapement & habitat use history: GCL-Sproat spawn area, time and depth report.

### **Riparian and Upland Watershed OEU Focus:**

- (13) Riparian biodiversity as per salmon dependent predators-scavengers profile ppr.
- (14) Henderson watershed land use and impacts on habitat integrity ppr.

### **Sectoral Impacts on CU-OEU Focus:**

- (15) Henderson salmon enhancement and habitat restoration planning report.
- (16) Harvest impacts on sockeye CUs and collateral effects on ecosystem integrity indicators.
- (17) Hatchery enhancement impacts on wild salmon CUs and collateral ecosystem integrity effects.

