

## 2014 Okanogan River Picket Weir Implementation Plan



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### 2013 Weir Operation – Summary

- Weir installation complete 22 August 2013
- Thermal decline to 21-22°C resulted in larger numbers of chinook at weir 28/29 August
- Large numbers of sockeye arrival coincident with first pulse of chinook late August
- Passage concentrated between hours of 0500 to 0700 and again 1700 to 2000
- Chinook numbers declined by 10 September
- Trap and weir overtopped at River-center position during flow > 3,000 cfs

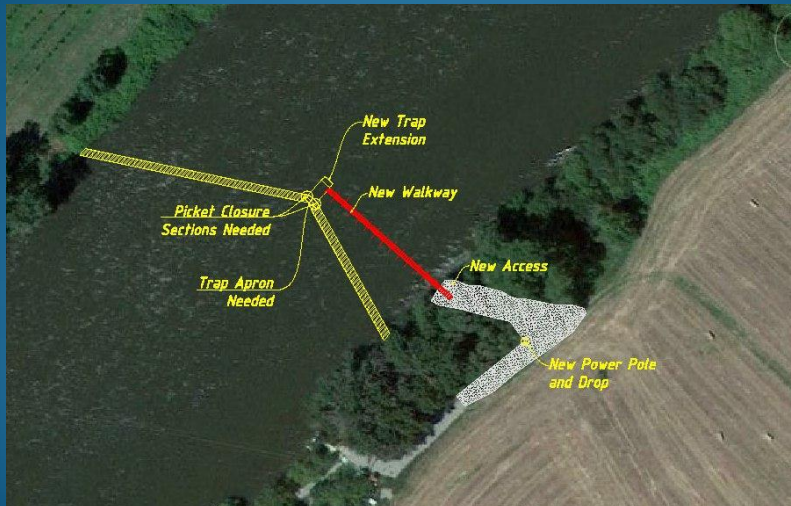
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### 2013 Weir Operation – Lessons Learned

- Mid-River trap location best (slightly upstream of deep hole)
- Mild V-shape provides good lead
- Daily cleaning prevents slippage and failure
- Trap should be longer for additional capacity
- Picket spacing 3" works fine to guide chinook
- Install walkway across river to trap to facilitate capture and handling of broodstock
- Need to seal openings at trap corners and at base
- Need to provide walkway around trap for access

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2014 Weir Operation – Additions / Changes to Weir & Trap  
Crowder:

1. move lower eyes to base of frame to prevent rollout
2. Move winch to opposite side of trap
3. Switch places with swing gates to allow fish to pass along sides
4. Improve winching block and sheave system

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2014 Weir Operation – Additions / Changes to Weir & Trap  
Trap:

1. Move entrance gates to sides
2. Move video box to outboard position to remove interference with crowder
3. Close gap at base and corners where adjacent to pickets
4. Replace entrance gate bushings with solid affixed style
5. Install leveling legs all joints of trap
6. Provide mobile ingress/egress ladder
7. Mount video camera/light bar inside trap

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2014 Weir Operation – Additions / Changes to Weir & Trap  
Live Box/Dead Box:

1. Construct live box for pontoon boat to enable water-to-water transfer
2. Construct dead box/tote box for pontoon boat to move culls/harvest to shore

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2014 Weir Operation – Additions / Changes to Weir & Trap  
Walkway:

1. Provide LED light string along walkway
2. Provide non-slip walkway grating & soft mounting
3. Install bridge from last section walkway to shore
4. Add walkway around trap

General:

1. New power pole and drop to new access ramp area
2. One new CONEX storage for walkway sections and other parts
3. Modify pontoon boats to provide flat work surface