

**Icicle Work Group Meeting**  
**Thursday, February 20<sup>th</sup>, 2014**  
**9:00 a.m. to 3:00 p.m.**  
**Confluence Technology Center**  
**Wenatchee, WA**

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**AGENDA**

- 9:00 Introductions, review agenda, review/re-schedule 2014 meeting schedule (Dally Wilson)
- 9:15 Summary of December Work Group Meeting (Dally Wilson)
- 9:30 Steering Committee Report (Tebb)
1. Operating Procedures (All)
    - a. Review edits by Steering Committee
    - b. Membership List
    - c. Steering Committee representation.

**Decision Item #1:** Approve Icicle Work Group Operating Procedures (Draft Version #6) with recommended edits, confirmed member list and steering committee representatives.

2. Review Master Scope of Work (Haller, Tebb, Kaputa, All)
  - a. Ongoing and future work
  - b. Projects that are ready to proceed
  - c. Integration/Coordination with other regulatory processes

**Decision Item #2:** Notice to proceed for Alpine Lakes Optimization, Modernization and Automation Feasibility Study (\$115,000).

**Discussion Item and Possible Decision Item #3:** Discuss the need for a sediment transport and hydrologic modeling study between RM 3.8 and 2.7 (\$10,000)

**Decision Item #4:** Notice to proceed for fatal flaw investigations associated with the IPID Pump Exchange (Dryden location) Feasibility (\$100,000).

**Discussion Item and Possible Decision Item #5:** Discuss the need for an appraisal study of Eightmile Lake storage restoration and a fatal flaw analysis of Eightmile Lake storage expansion (\$110,000).

**Decision Item #6:** Notice to proceed with LNFH groundwater investigation and creation of a groundwater technical subcommittee (\$70,000 OCR, \$80,000 matching funds).

12:00 Lunch Break (lunch provided)

12:40 Steering Committee Report Continued

3. Clarify metrics tied to guiding principles

**Decision Item #7:** Approve creation of an Instream Flow Technical Subcommittee. Discuss committee chair and key participants. Clarify goals (see background information).

1:30 Wenatchee Water Work Group Update (Kaputa, Haller)

- Coordinated Cost Reimbursement Process

2:00 Future Icicle Work Group Agenda Items (All)

2:15 Roundtable

2:40 Public Comment

2:45 Next Steps

3:00 Adjourn

**Icicle Creek Work Group**  
**February 20<sup>th</sup>, 2014**

**Background Information for Decision and Discussion Items**

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**Decision Item #1: Approve Icicle Work Group Operating Procedures**

See Draft Operating Procedures Version #6.

**Decision Item #2: Notice to Proceed for Alpine Lakes Optimization, Modernization and Automation Feasibility Study (\$115,000 OCR Task 7).**

This project came from IWG's master list of projects discussed spring and summer 2013. Seven Alpine Lakes are currently managed by IPID and the LNFH. This feasibility study will 1) evaluate annual recharge to each lake over a range of historical and future climate scenarios, 2) evaluate different lake management scenarios to optimize water supply and 3) evaluate the potential to automate lake discharges so that they could be changed remotely. The \$115,000 needed is available in the OCR budget. A technical committee may need to be formed toward the end of this task to review the draft feasibility study and provide input on next steps. Guiding Principle Targeted: Improved Streamflow, Agricultural Reliability, Municipal Supply.

**Discussion Item and Possible Decision Item #3: Discuss the need for a sediment transport and hydrologic modeling study between RM 3.8 and 2.7 (\$10,000 OCR Task 4.4).**

This study will evaluate various flow volume scenarios between the natural channel and the hatchery canal between RM 3.8 (Structure 2) and 2.7 (confluence of two channels). The purpose of this study is to evaluate impacts of various flow scenarios to the tribal fishery, existing habitat in the natural channel, and private property. Information would be used to evaluate alternatives for Structures 2 and 5 that would allow fish passage while splitting flows in a way that maintains the existing tribal fishery conditions and results in more unregulated flows in the historic channel. Estimated cost of \$10,000 is available in the OCR budget. Guiding Principle Targeted: protects tribal treaty and federally-protected fishing/harvest rights, streamflow that provides passage, healthy habitat and serves channel formation function, and a hatchery that does not impede fish passage.

**Decision Item #4: Notice to proceed for fatal flaw investigations associated with the IPID Pump Exchange (Dryden location) Feasibility (\$100,000 OCR Task 5).**

This project came from IWG's master list of projects discussed spring and summer 2013. The Peshastin Irrigation District Pump Exchange Project Appraisal Study (December 2012) was completed to evaluate alternatives for a pump station on the Wenatchee River what would deliver water to the Peshastin and Icicle Irrigation District Canals to offset water diverted from both Peshastin and Icicle Creeks. A location near Dryden, Alternative 1, was selected as the preferred alternative for a pump station location. The next steps are to complete a feasibility-level study that would evaluate fatal flaws and potential pump station operations for the preferred

alternative. A technical committee should be formed as this feasibility study is completed to evaluate and compare all potential pump exchange projects, including TU's evaluation of a potential pump station that would only service the Icicle Canal. The estimated \$100,000 is available in the OCR budget. Guiding Principle Targeted: Improved Streamflow.

**Discussion Item and Possible Decision Item #5: Discuss the need for an appraisal study of Eightmile Lake storage restoration and a fatal flaw analysis of Eightmile Lake storage expansion (\$110,000 OCR Task 6).**

This project came from IWG's master list of projects discussed spring and summer 2013. The Icicle and Peshastin Irrigation Districts hold water rights to manage water supply on Eightmile Lake. Structures at the lake have been damaged by ice and flooding and are not fully operational. This appraisal-level study will evaluate opportunities to restore three storage levels at the lake (1,827 acre-feet, 2,000 acre-feet, and 2,500 acre-feet). A fatal flaw analysis will be completed on the potential to expand storage capacity to 5,000 acre-feet. The purpose of this task is to fully understand the costs, benefits and challenges associated with each storage option and answer questions raised by the IWG. A technical committee may be formed early in the process to review the detailed scope of work, provide input on draft work products, ensure questions and data gaps are addressed, and discuss next steps. The estimated \$110,000 is available in the OCR budget. Guiding Principle Targeted: Improved Streamflow, Agricultural Reliability, and Municipal Supply.

**Decision Item #6: Notice to proceed with LNFH groundwater investigation and creation of a groundwater technical subcommittee (\$70,000 OCR, \$80,000 matching funds).**

*Goal/Guidance:* The purpose of this work is to evaluate alternatives and develop a solution to provide LNFH with sufficient groundwater that would eliminate the need to operate Structure 2 to recharge groundwater wells currently in use. This technical committee will 1) evaluate existing information and then, 2) develop an action plan and scope of work to be implemented. The effort will evaluate the legal and physical availability of groundwater (in sufficient quantity and quality), in other locations that will meet hatchery needs without reliance on the operation of Structure 2. The LNFH is currently conducting an effluent pump back feasibility study. The groundwater technical committee will evaluate the outcome of this groundwater recharge study along with estimated costs and benefits of an effluent pump back alternative. The estimated total cost of groundwater investigations is \$150,000. The OCR budget has \$70,000 available if re-tasked from the environmental review task. Matching funds of \$80,000 may be available from the Bureau of Reclamation, PCSRF or PUDs. Guiding Principle Targeted: Improved Streamflow, and Sustainable Hatchery Operations.

*Technical Committee Participation:* Include LNFH staff, Ron Dixon (DOE groundwater?), Melanie Redding (DOE water quality working on effluent pumpback), others?

**Decision Item #7: Creation of an Instream Flow Committee**

*Goal/Guidance:* Establish target flows for Icicle Creek that an entire suite of projects could meet. Establish geographic scope (reach locations like LNFH natural channel, others?). Establish timing for target flows (e.g. monthly). Establish priority species and life stages. This is a *goal*

setting exercise intended to guide selection and development of *voluntary* projects. It is understood that target flows will not necessarily be met in every water year. Use USFWS PHABSIM and Passage reports as guidance, among other instream flow reports.

*Technical Committee Participation:* Potential Chair, Paul LaRiviere (WDFW), include Dan Anglin and Joe Skalicky (USFWS), others?