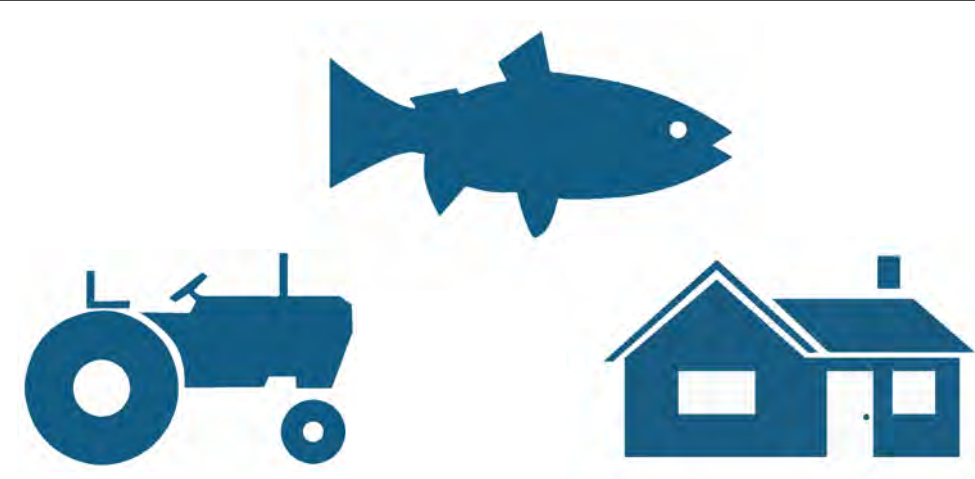




EIGHT MILE LAKE



Eightmile Lake, located in the Alpine Lakes Wilderness Area, has been used as a reservoir to supplement Icicle and Peshastin Irrigation Districts since the early 20th century. In recent years, ice and flooding has damaged water storage control structures on Eightmile Lake, leading to reduced storage capacity. The purpose of the Eightmile Lake Restoration Project is to repair the dam structure and restore storage capacity. The Icicle Work Group has proposed to restore the dam to its original height and increase operating drawdown. This will increase the maximum water surface by 4 feet, lower the drawdown by up to 22 feet, and restore the storage capacity to the District's adjudicated water right of 2,500 acre-feet. The additional stored water will be used to increase instream flows by 9.5 cfs over 60 days during the late summer low flow period, which will improve fish habitat and passage conditions in Icicle Creek. Additionally, this water will improve domestic supply and improve agricultural reliability.

Applicability of Icicle Work Group Guiding Principles	
Guiding Principle	Eightmile Restoration
1. Streamflow Improvement	Would significantly enhance flows in Icicle Creek
2. Sustainable Hatchery	Could potentially benefit hatchery operations if lake was managed to allow for winter low-flow period releases
3. Tribal Treaty Rights	Would significantly enhance flows in Icicle Creek, which would enhance fish habitat
4. Municipal/Domestic Supply	900+ acre-feet of new supply for municipal use
5. Agricultural Reliability	Automation and optimization would improve reliability of irrigation supply
6. Ecosystem Health/Habitat	Would significantly enhance flows in Icicle Creek, which would enhance fish habitat
7. Compliance with State/Federal Laws	Would comply with State/Federal regulatory and permit requirements
8. Non-Treaty Harvest Protection	Would significantly enhance flows in Icicle Creek, which would enhance fish habitat
9. Wilderness Act Compliance	Would comply with State/Federal regulatory and permit requirements



Cost Benefit Summary	
Item	Cost/Benefits
Additional Usable Storage Capacity (Acre-Feet)	1,125
Total Project Cost/Acre-Foot of Additional Storage	\$2,398
Additional Release Available (60-day Release Period)	9.5
Total Project Cost/cfs of Additional Release (60-day Release)	\$166,294
Additional Release Available (92-day Release Period)	6.2
Total Project Cost/cfs of Additional Release (92-day Release)	\$254,984

HOW DOES IPID MAINTAIN OR IMPROVE THEIR RESERVOIRS IN THE ALPINE LAKES WILDERNESS?

When the Alpine Lakes Wilderness was established, the U.S. Government and IPID agreed on a land exchange to allow IPID to continue to operate, maintain, and improve the facilities at their reservoirs in the Alpine Lakes Wilderness. Under the land exchange agreement recorded with the Chelan County recorder's office, IPID retained several rights to the land, including:

"a nonexclusive, perpetual easement across, through, along, and upon the property described herein for the purposes of maintenance, repair, operation, modification, upgrading and replacement of all facilities presently located in or upon the property described herein, together with a nonexclusive right of ingress to and egress from all such facilities for all such purposes, in accordance with Rules and Regulations of the Secretary of Agriculture, 36 CFR 251.17 and 251.18, attached hereto and made a part hereof, in such manner as not unreasonably to interfere with its use by the United States, its authorized users or assigns, or cause substantial injury thereto."

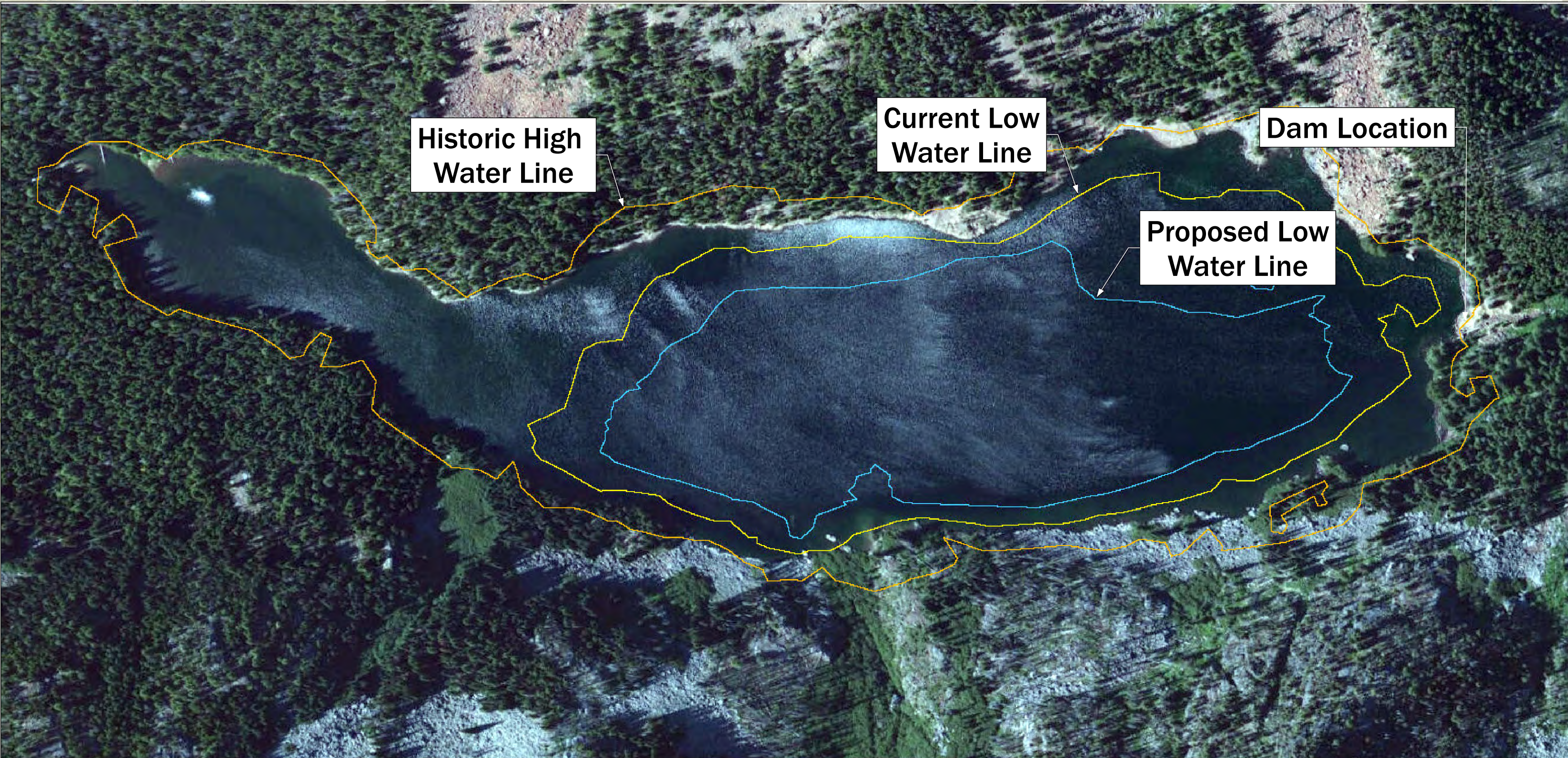
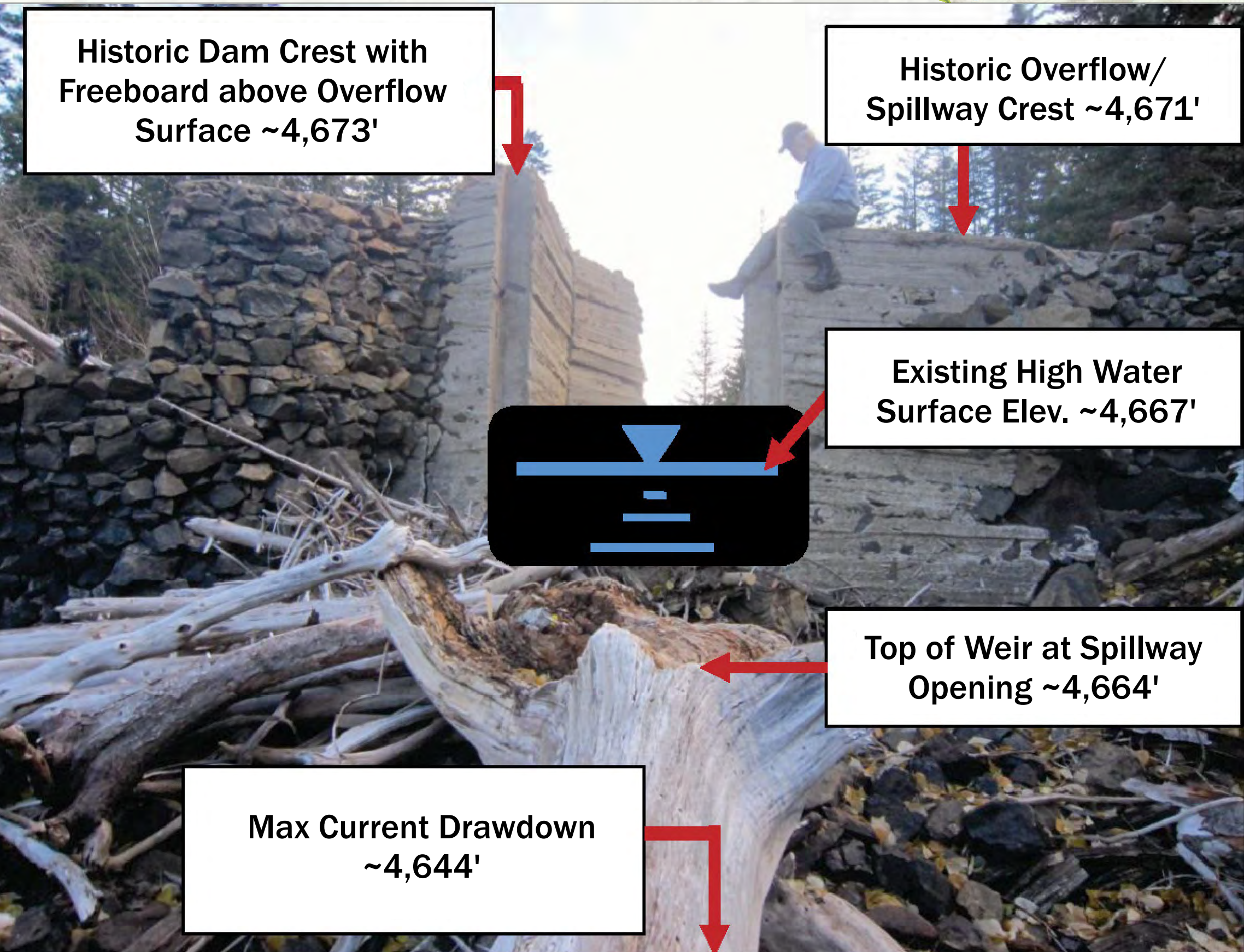
The Grantor [IPID] may exercise the rights hereunder by any means reasonable for the purposes described, including but not limited to the use of motorized transportation and equipment, or aircraft. These rights include the right to regulate water level of all facilities located upon the property described herein. In performing maintenance, repair, operation, modification, upgrading and replacement of facilities located in or upon the property described herein, the Grantor will not without prior written consent of the Forest Service, which consent shall not unreasonably be withheld, materially increase the size or scope of the facilities."



Current High Water (Lake Elevation 4,667 ft)



Current Low Water (Lake Elevation 4,644 ft)



Existing Conditions
Storage Capacity: 1,375 acre-feet
Full Water Surface Area: 76.6 acres
Water Surface Area at Drawdown: 44.1 acres
High Water Surface Elevation: 4,667 feet
Low Water Surface Elevation: 4,644 feet

With Proposed Improvements
Storage Capacity: 2,500 acre-feet
Full Water Surface Area: 81.7 acres
Water Surface Area at Drawdown: 27.1 acres
High Water Surface Elevation: 4,671 feet
Low Water Surface Elevation: 4,622 feet