



Fish Screen Compliance

More information available at: <http://www.co.chelan.wa.us/natural-resources/>

PROJECT DESCRIPTION

There are three large diversions on Icicle Creek with screens that do not meet current requirements. The IWG is proposing to upgrade these screens to comply with current standards. These screening projects will help decrease fish mortality in Icicle Creek.

The Leavenworth National Fish Hatchery (LNFH)/ Cascade Orchard Irrigation Company (COIC) have a shared diversion located at RM 5.4. The Biological Opinion (BiOp) for LNFH requires this diversion's screen be upgraded to meet current fish passage requirements. LNFH and COIC are considering various operational changes that would reduce screen sizing. LNFH is exploring water reuse options. COIC is considering moving their point of diversion to the Wenatchee River and implementing other efficiency upgrades. COIC recently completed an Alternatives Analysis to evaluate potential changes to their supply.

The City of Leavenworth's point of diversion is located at RM. 5.7. This diversion along with the City's wellfield, supplies water to 1,380 connections. Any screening upgrades would have to be coordinated with boulder field passage projects.

The Icicle Peshastin Irrigation District (IPID) point of diversion is also located at RM. 5.7. IPID is authorized to divert approximately 117 cfs at their diversion for irrigation. Any screening upgrades would have to be coordinated with boulder field passage projects.

In addition to upgrading the screens, the IWG is proposing to improve the intake structure at LNFH. As part of this project, dilapidated sections of intake piping would be replaced. This will improve operations at LNFH and help facilitate the screen upgrade.

The screening improvements cost estimate is \$5 million, with additional costs for upgrading the intake structure.

PROJECT BENEFITS

- Decreases fish mortality
- Brings major diversions up to current screening standards

GUIDING PRINCIPLES

- Supports a sustainable LNFH
- Compliance with State and Federal Laws

POTENTIAL ISSUES/DATA GAPS

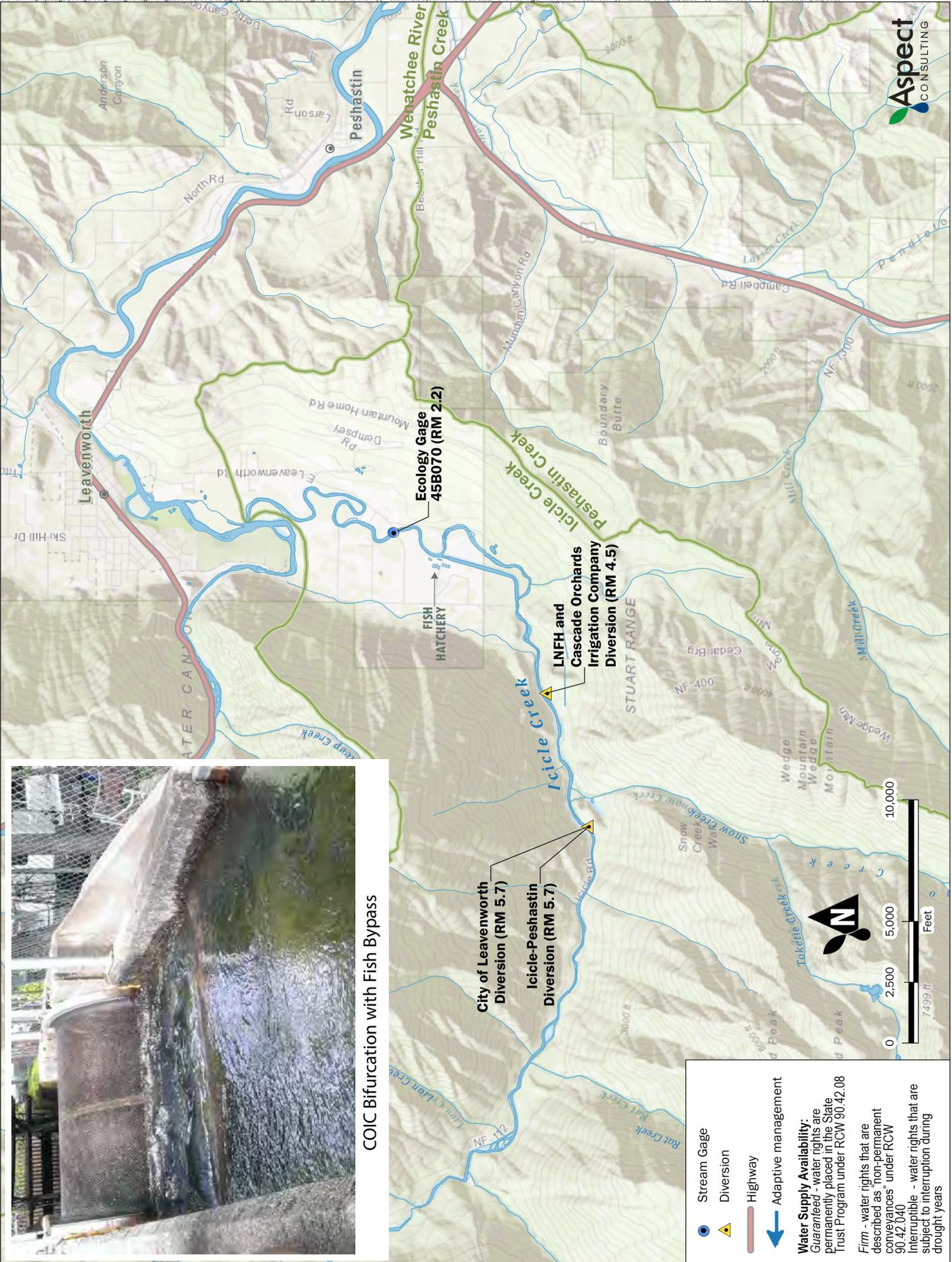
- Coordinate with LNFH intake rehabilitation
- Coordinate with Boulder Field passage projects
- Coordination of LNFH/COIC Screening project with COIC Alternatives Analysis
- Coordination of LNFH Screening Project with LNFH Reuse Project

TIMELINE TO IMPLEMENT

2016	Analysis and Design
2016-2018	Environmental Review
2018	Construction

EXISTING AND ONGOING STUDIES

- Icicle Creek Fish Passage Evaluation for LNFH, 2013, US Fish and Wildlife Service (USFWS)



COIC Bifurcation with Fish Bypass

- Stream Gage
- Diversion
- Highway
- Adaptive management

Water Supply Availability:
 Guaranteed - water rights are permanently placed in the State Trust Program under RCW 90.42.08
 Firm - water rights that are described as "non-permanent conveyances" under RCW 90.42.040
 Interruptible - water rights that are subject to interruption during drought years