

Screening Improvements Project

DRAFT

ICICLE COMPREHENSIVE WATER RESOURCES STRATEGY

More Information Available at <http://www.ecy.wa.gov/programs/wr/cwp/>

PROJECT DESCRIPTION

The LNFH shares its intake system with Cascade Orchard Irrigation Company at RM 5.4. This structure is in need of rehabilitation to improve fish passage, provide screening and improve hatchery operations. This project would be coordinated with the intake rehabilitation described under passage projects and with all other LNFH projects.

Lead Entity to Implement: USFWS
Estimated Project Cost: \$3.6 Million

PROJECT BENEFIT

- Upgrade current LNFH intake to current standards by providing fish screen.
- Improve LNFH operations and water delivery system.

GUIDING PRINCIPLES

- Sustainable Hatchery (GP 2)
- Improves Ecosystem Health (GP 6)

POTENTIAL ISSUES/ DATA GAPS

- Coordinate with P-F-02 (LNFH intake rehabilitation)

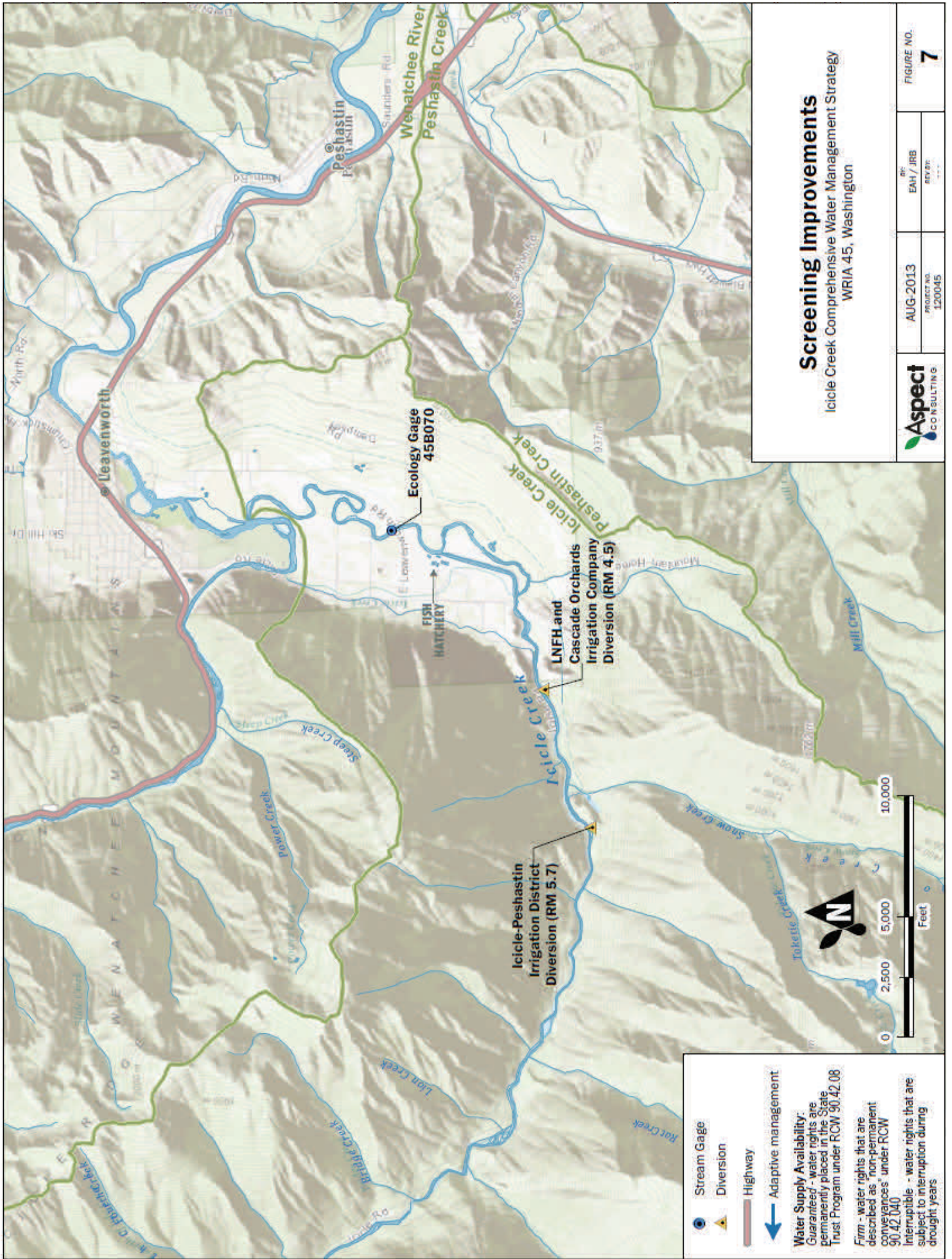
Timeline to Implement:

- NEPA analysis for fish screens begins in FY 2014.
- Install environmentally compliant fish screens within 5-years (per NOAA Fisheries pending Biological Opinion).

SUB-BASIN

EXISTING and ONGOING STUDIES

- Lower Icicle IFIM, 2005, US Bureau of Reclamation; Basis for Wenatchee Instream Flow Rule (WAC 173-545) addressing Icicle Creek from RM 0.0 to RM 2.7.
- Instream Flow Incremental Methodology (IFIM) Study, (Ongoing), US Fish and Wildlife Service; Addressing Icicle Creek from RM 2.7 to RM 3.8.
- Icicle Creek Target Flow Report of the Leavenworth National Fish Hatchery, 2004, Montgomery Water Group; Addressing Icicle Creek from RM 3.9 to RM 4.5.



Screening Improvements

Icicle Creek Comprehensive Water Management Strategy
 WRIA 45, Washington



AUG-2013
 PROJECT NO. 120045

EAH / JRB
 REV. BY: ---

FIGURE NO. **7**

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