Fish Resource Protection
Stream Crossings & Water Withdrawal
For Wildland Fire Operations

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Purview

• Within Limits of **Ordinary High Water** (OHW) and Independent of Land Ownership

• **Fishway Act** (Alaska Statute 16.05.841) – Fish Passage
  In All Fish Bearing Water Bodies

• **Anadromous Fish Act** (AS 16.05.871) – Work Within/Use of Water or Bed of Catalogued Water Body

• Legislatively Designated **Special Areas** (AS 16.20)
  Refuges, Sanctuaries, Ranges, Critical Habitat Areas
Current Fish Habitat Permit

FH20-SW-0002-A1

* Consolidates Previous Two Permits

* Authorizes Crossing of Non-Spawning Extents of Anadromous Waterbodies

* Authorizes Withdrawals of Anadromous Waterbodies

*Does Not Limit Withdrawal to 110 gpm or Use of Heavy Equipment
Current Fish Habitat Permit

FH20-SW-0002-A1

* Does **Not Require Notification** for Resident Waterbodies
  Only Anadromous Waters
  and/or if Stream Banks/Bed are Modified for Crossings

* Requires Vigilance & **Mitigation** Measures to
  Control Spread of **Invasive Species**

* Activities In **Special Areas** (e.g., Refuges)
  Requires Authorization From Regional Office
Stipulations

For All Fish Bearing Water Bodies

1-2) Maintain Fish Passage

3-4) Avoid Direct Impact To Fish

5-6) Protect Anadromous Spawning Beds (After Spawning Begins)

7) Mitigate Spread of Invasive Species
Crossing at Wrong Place/Time and/or Haphazardly Increases Potential To

*Destabilize Stream Bed/Banks
*Damage Fish Eggs/Alevin
*Alter Water Flow/Quality
*Create Entrapments
Reduce Impacts To Fish & Habitat

Cross At Most Right Angle Possible

Identify Landscape Features/Topography To Use or Avoid

Identify Locations with Fish Species/Life Stage To Avoid

Identify Potential Alternative Crossing Sites
To Mitigate The Creation of Ruts/Berms
Avoid Unstable Streambeds & Banks
and/or Use Temporary Crossing Structures
Reducing Effects

- Leave Adequate Water For Fish
- Be Cognizant of Impacts to Water Quality (Have Adequate Spill Response Equipment)

- Notification for Scoopers/Buckets Allows Us to Identify Unique Situations or Resources to Avoid
- Use Proper Intake Screen & Pump - Buoy Intakes Near Surface In Spawning Extents of Anadromous Water
Aquatic Invasive Species

Impacts Native Species

Eradication Is Costly

Avoid Spread

*Clean & Dry Gear/Equipment That Entered Water Before Using in Another Waterbody
Anadromous Waters Catalog

ADF&G Home Page (adfg.alaska.gov)

Habitat

AWC Mapper (AKA)

Alaska Fish Resources Monitor
Anadromous Waters Catalog

Alaska Fish Resource Monitor
Can Filter-Out Spawning