

CITY OF JULIAETTA

Potlatch River Waterline Crossing Environmental Report

October 2019

Prepared by:
Andrew Kimmel, P.E.

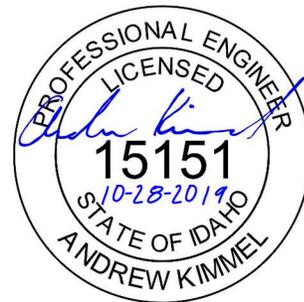


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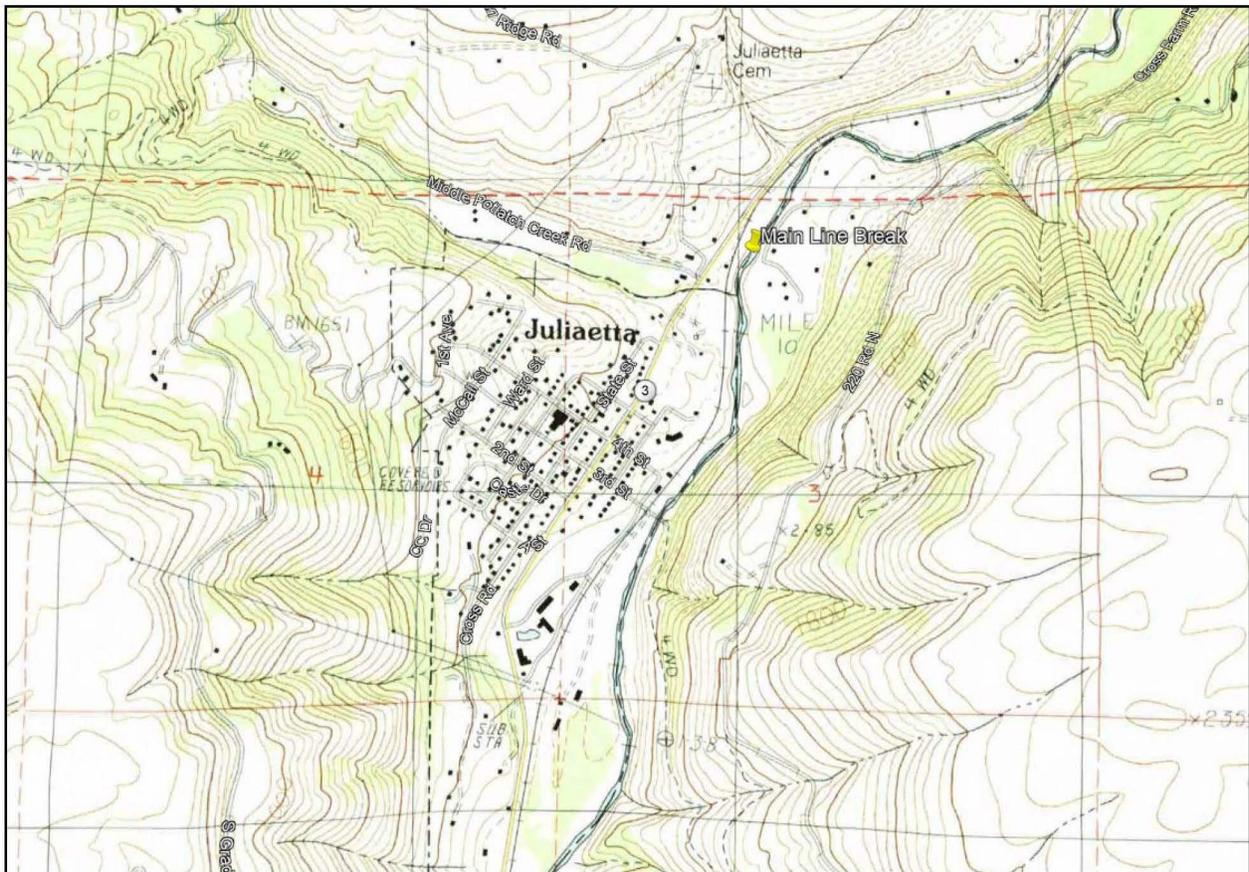
1.0 Project Description and Location

The City of Juliaetta (City) is located approximately 23 miles northeast of Lewiston, Idaho along State Highway 3.

- Section 3 of Township 37 North, Range 3 West
- Latitude: 46° 35'2.86"N, Longitude: 116° 42'3.60"W

The project location and area topography is depicted in Figure 1-1 on the most recent USGS topographic map (USGS, 1990). A project map is included as Figure 1-2.

Figure 1-1: USGS Topographic map (1:24,000)



The area of potential effect (APE) includes approximately 1.15 acres in Latah and Nez Perce Counties, Figure 1-2. In Latah County (west side of Potlatch Creek) the APE encompasses property owned by the City that is used for surface water treatment in conjunction with the City's public water system. A paved public recreational trail bisects the water treatment building and the Potlatch River. Crossing the Potlatch River to the west, the APE includes portions of land owned by Nez Perce County and two private land owners.

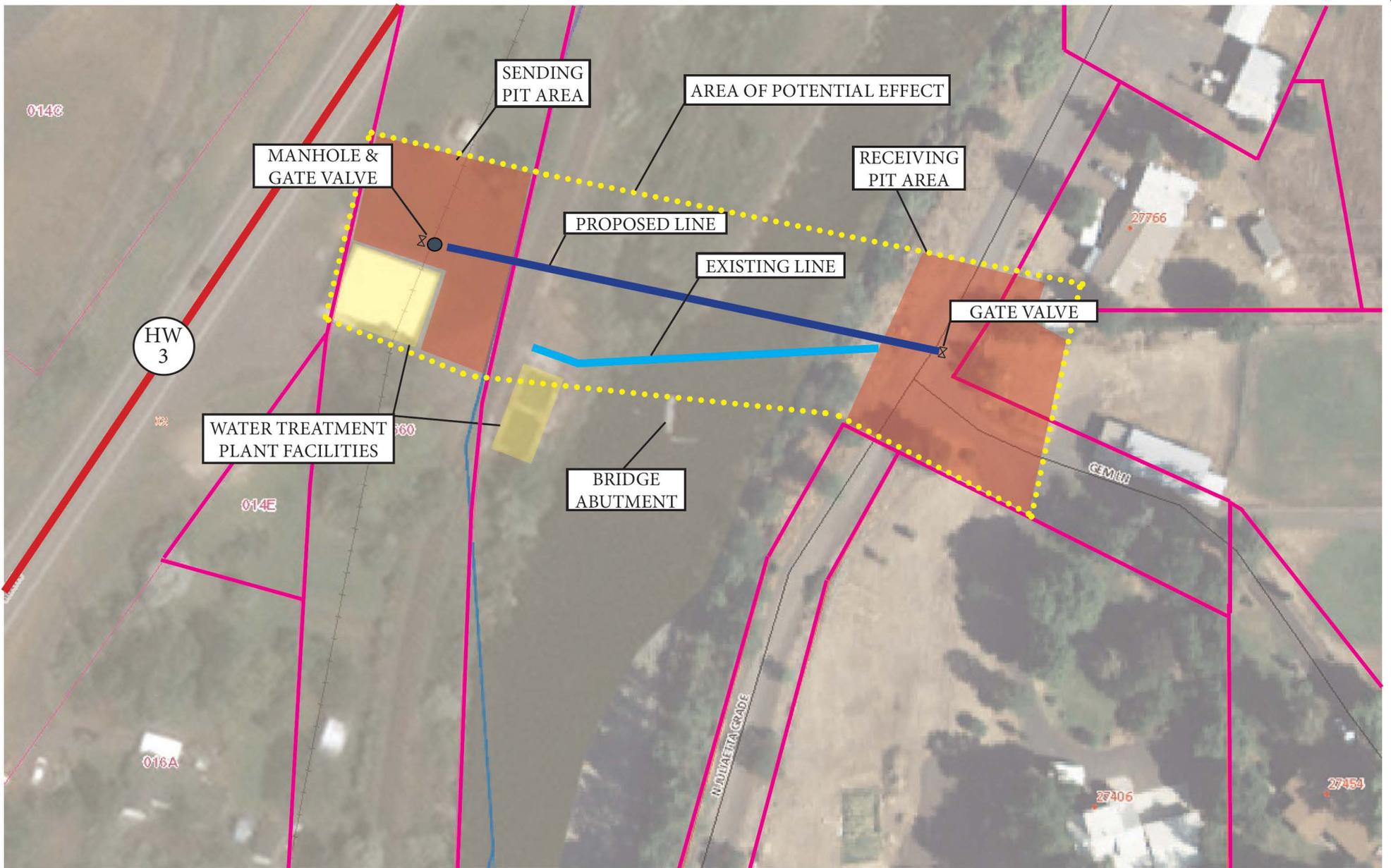


Figure 1-2
Project Map
 Emergency Water Project
 City of Juliaetta, Idaho

Reconnection of the water main will take place approximately 10-feet below the river bottom of the Potlatch River with horizontal directional drilling construction method. A specialized contractor will drill a horizontal hole between a sending and receiving pit while not disturbing the river. Excavation of the sending pit will be located on the City owned property adjacent to the existing water treatment facility as shown in Figure 1-2. The site is previously disturbed ground where multiple subsurface water mains feeding the treatment plant are located. The sending pit is estimated to be approximately 5-feet wide by 10-feet in length with a depth of approximately 2-feet below ground surface.

The receiving pit will be located on the east side of the river in the general vicinity identified in Figure 1-2. The receiving pit will be approximately 10-feet wide by 10-feet long and approximately 6-ft below ground surface. The location of the receiving pit will also be the connection point to the existing waterline on the east side of the Potlatch River. A permanent access vault will be installed on the west side of the new main line to provide for future testing and maintenance.

1.1 Wetlands

The US Fish and Wildlife Service’s (USFWS) National Wetlands Inventory online mapping system and onsite investigation utilized to identify potential impacts to wetlands. Within the APE, Riverine System wetlands were identified with the code R3UBH. That code further identifies the wetland subsystem, class and water regime as shown in Table 1-1. A map generated by the USFWS online mapping system is included as Appendix A.

Table 1-1: Description for Code R3UBH

Wetland Identifier R3UBH			
R	System	Riverine	Riverine System includes all wetlands and deepwater habitats contained within a channel.
3	Subsystem	Upper Perennial	This Subsystem is characterized by a high gradient. Some water flows all year, except during years of extreme drought. The fauna is characteristic of running water. There is very little floodplain development.
UB	Class	Unconsolidated Bottom	Includes all wetlands and deepwater habitats with at least 25% cover of particles smaller than stones (less than 6-7 cm), and a vegetative cover less than 30%.
H	Water Regime	Permanently Flooded	Water covers the substrate throughout the year in all years.

Visual inspection of the area indicates that seasonal wetlands are present on the east side of the Potlatch River, within the APE, as identified in on the map in Appendix A. The proposed project sending pit location for the new waterline is separated from the seasonal wetlands by a paved public recreational trail and approximately 9 feet of elevation. The sending pit location will not be within the seasonal wetland area and any drilling would be

approximately 8 to 10 feet below the wetland and river bottom. No wetlands are identified on the west side of the river as the river bank consists of large boulders and deciduous shade trees.

1.2 Threatened and Endangered Species

The USFWS Information for Planning and Consultation (IPaC) was utilized to identify threatened, endangered, proposed and candidate species as well proposed or final designated critical habitats. The only identified species was the threatened Spalding's Catchfly, a flowering plant most often found in open, moist grasslands. The proposed project location does not consist of moist grasslands or any other likely habitat for the species. No other species or critical habitats were identified by the IPaC report. The IPaC report is included for reference in Appendix B.

The national Oceanic and Atmospheric Administration (NOAA) West Coast Region Fisheries website was reviewed for critical and essential fish habitat. It was determined the Potlatch River is listed as critical habitat for Snake River Basin Steelhead and Essential Fish Habitat for Chinook and Coho Salmon. The Chinook Salmon Spring/Summer run has been designated as functionally extirpated for the project area.

The project construction activities are anticipated to be performed at low water, outside of the active river channel and during low precipitation months. No harassment of species is anticipated due to work being completed outside the active river. Best Management Practices (BMPs) will be required of the contractor. Sedimentation and erosion controls (i.e., hay bales, silt fence, de-watering, etc.) will be implemented on all project sites where materials or equipment is staged or stockpiled, excavation is performed or fill is placed, to minimize the release of fines into the aquatic environment. Given the timing and location of construction, along with required BMPs, there is anticipated to be No Effect to any listed species, critical habitat or essential fish habitat as a result of the proposed project. All habitat maps are included in Appendix C.

1.3 Floodplains

Utilizing Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM), the APE was identified to be within identified 100-year floodplain with base flood elevations determined, on the west side of the Potlatch River. No base flood elevation has been determined for the APE on the east side of the river. Both FIRMs are included for reference in Appendix D.

All construction and final installation of appurtenances for testing and isolation on the west side of the river will be outside of the designated flood plain. On the east side of the river, within the designated floodplain, a gate valve on the new main line will be installed for isolation and reconnected to the existing main line. The gate valve will be subsurface with a valve can riser for ease of access.

1.4 Coastal Areas

Not applicable.

1.5 Section 106 Review

The APE does not include any properties listed on the National Register of Historic Places. The identified area on the west side of the river for the sending pit and testing and isolation appurtenances is within previously disturbed ground as recent as the 1993 water treatment plant installation. Significant excavation and installation of underground facilities was required for the SWTP. The identified area on the east side of the river for the receiving pit, gate valve and water main reconnection will be within the right-of-way of the existing gravel roadway for ease of future maintenance access. Figure 1-2 depicts all areas of potential disturbance.

2.0 Sources

Federal Emergency Management Service (FEMA). 2018. FEMA Flood Map Service Center Website. Available at: <https://msc.fema.gov/portal/search>

Idaho State Historical Society. 2018. The National Register of Historic Places in Idaho. 2018 April 27. Available at: <https://msc.fema.gov/portal/search>

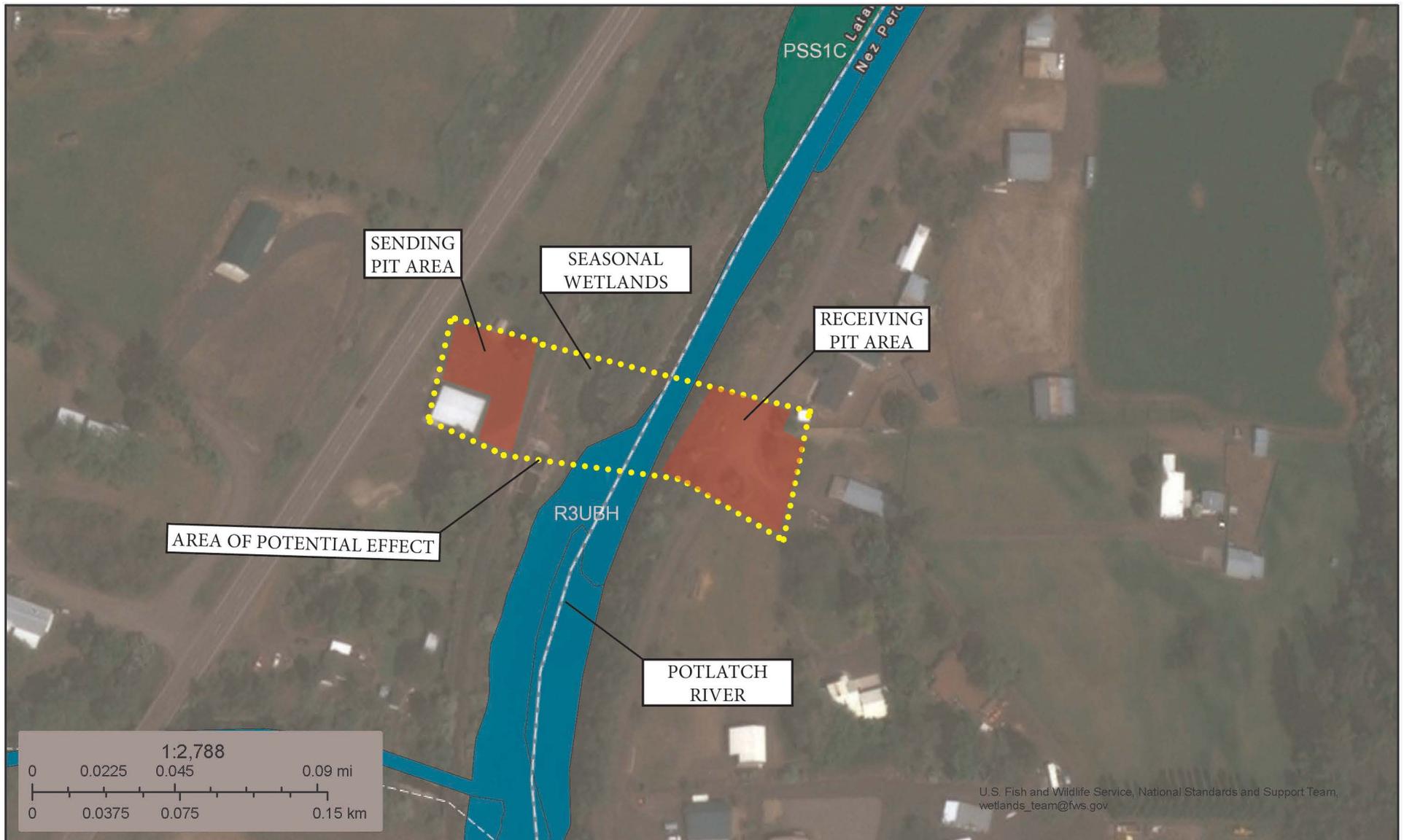
United States Fish and Wildlife Service (USFWS). 2018. Information for Planning Consultation (IPaC) Website. Available at: https://history.idaho.gov/sites/default/files/uploads/NRHP_Idaho.pdf

United States Fish and Wildlife Service (USFWS). 2018. National Wetlands Inventory Website. Available at: <https://www.fws.gov/wetlands/data/mapper.html>

United States Geological Survey (USGS). 2018. USGS topoView Website. Various years available at: <https://ngmdb.usgs.gov/topoview/viewer/#14/46.5710/-116.7088>

Appendix A

National Wetlands Inventory Map



May 29, 2018

Wetlands

- | | | |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix B

USFWS IPaC Report



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Idaho Fish And Wildlife Office
1387 South Vinnell Way, Suite 368
Boise, ID 83709-1657
Phone: (208) 378-5243 Fax: (208) 378-5262

In Reply Refer To:

May 30, 2018

Consultation Code: 01EIFW00-2018-SLI-1346

Event Code: 01EIFW00-2018-E-02824

Project Name: Juliaetta Emergency Water Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

Please note: The IPaC module for producing a list of proposed and designated critical habitat is currently incomplete. At this time, we ask that you use the information given below to determine whether your action area falls within a county containing proposed/designated critical habitat for a specific species. If you find that your action falls within a listed county, use the associated links for that species to determine if your action area actually overlaps with the proposed or designated critical habitat.

Canada Lynx (*Lynx canadensis*) - Designated February 24, 2009.

Counties: Boundary County.

Federal Register Notice: <http://www.gpo.gov/fdsys/pkg/FR-2009-02-25/pdf/E9-3512.pdf#page=1>

Printable Maps:

http://www.fws.gov/mountain-prairie/species/mammals/lynx/criticalhabitat_files/

[20081222_fedreg_unit3_draft.jpg](#)

GIS Data: http://criticalhabitat.fws.gov/docs/crithab/zip/lunx_ch.zip

KML for Google Earth: (None Currently Available)

Selkirk Mountains Woodland Caribou (*Rangifer tarandus Caribou*) - Proposed November 30, 2011.

Counties: Bonner and Boundary Counties.

Federal Register Notice: <http://www.fws.gov/idaho/home/2011-30451FINALR.pdf>

Printable Maps: http://www.fws.gov/idaho/home/Map1_sub1_150.pdf

GIS Data: (None Currently Available)

KML for Google Earth: (None Currently Available)

Bull Trout (*Salvelinus confluentus*) - Designated September 30, 2010.

Counties: Adams, Benewah, Blaine, Boise, Bonner, Boundary, Butte, Camas, Clearwater, Custer, Elmore, Gem, Idaho, Kootenai, Lemhi, Lewis, Nez Perce, Owyhee, Shoshone, Valley, and Washington Counties.

Federal Register Notice: <http://www.gpo.gov/fdsys/pkg/FR-2010-10-18/pdf/2010-25028.pdf#page=2>

Printable Maps: http://www.fws.gov/pacific/bulltrout/CH2010_Maps.cfm#CHMaps

GIS Data: <http://criticalhabitat.fws.gov/docs/crithab/zip/bulltrout.zip>

KML for Google Earth: http://www.fws.gov/pacific/bulltrout/finalcrithab/BT_FCH_2010_KML.zip

Kootenai River White Sturgeon (*Acipenser transmontanus*) - Designated July 9, 2008.

Counties: Boundary County.

Federal Register Notice: <http://www.gpo.gov/fdsys/pkg/FR-2008-07-09/pdf/E8-15134.pdf#page=1>

Printable Maps: (None Currently Available)

GIS Data: http://criticalhabitat.fws.gov/docs/crithab/zip/fch_73fr39506_acit_2009.zip

KML for Google Earth: (None Currently Available)

Slickspot Peppergrass (*Lepidium papilliferum*) - Proposed May 10, 2011. Counties: Ada, Canyon, Elmore, Gem, Owyhee, and Payette Counties.

Federal Register Notice: <http://www.gpo.gov/fdsys/pkg/FR-2011-10-26/pdf/2011-27727.pdf>

Printable Maps: <http://www.fws.gov/idaho/Lepidium.html>

GIS Data: (None Currently Available)

KML for Google Earth: (None Currently Available)

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in

the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Idaho Fish And Wildlife Office
1387 South Vinnell Way, Suite 368
Boise, ID 83709-1657
(208) 378-5243

Project Summary

Consultation Code: 01EIFW00-2018-SLI-1346

Event Code: 01EIFW00-2018-E-02824

Project Name: Juliaetta Emergency Water Project

Project Type: WATER SUPPLY / DELIVERY

Project Description: This project proposes to use the jack and bore drilling method to drill horizontally beneath the river bottom and install a new main line to reconnect a well and five homes to the main water system. Drilling will be approximately 8-10-feet below the river bottom and will not disturb the flow or fill of the Potlach River. A 16 to 20-inch casing and 6 to 10-inch main will be installed subsurface between the two points at which valve vaults will house testing and required appurtenances. Construction is anticipated summer 2018 and be 30 days long.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/46.58403391810493N116.700412923295W>



Counties: Latah, ID | Nez Perce, ID

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Flowering Plants

NAME	STATUS
Spalding's Catchfly <i>Silene spaldingii</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3681	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Appendix C

Habitat Maps

EFH View Tool | Data Query Tool

Zoom: [Icons] | Extent: [Icons] | Location Query: [Icon] | 10 Min sq.: | Help: [Icons]

Region

Essential Fish Habitat

Habitat Areas of Particular Concern

EFH Areas Protected from Fishing

▼ Chinook Salmon

Text Description [Icon]

Data Inventory & Data Download [Icon]

Salmon [Icon]

0% 100%
 Layer Transparency

Legend

Click to switch between lifestages if provided.

- Chinook Salmon

NOAA Nautical Charts

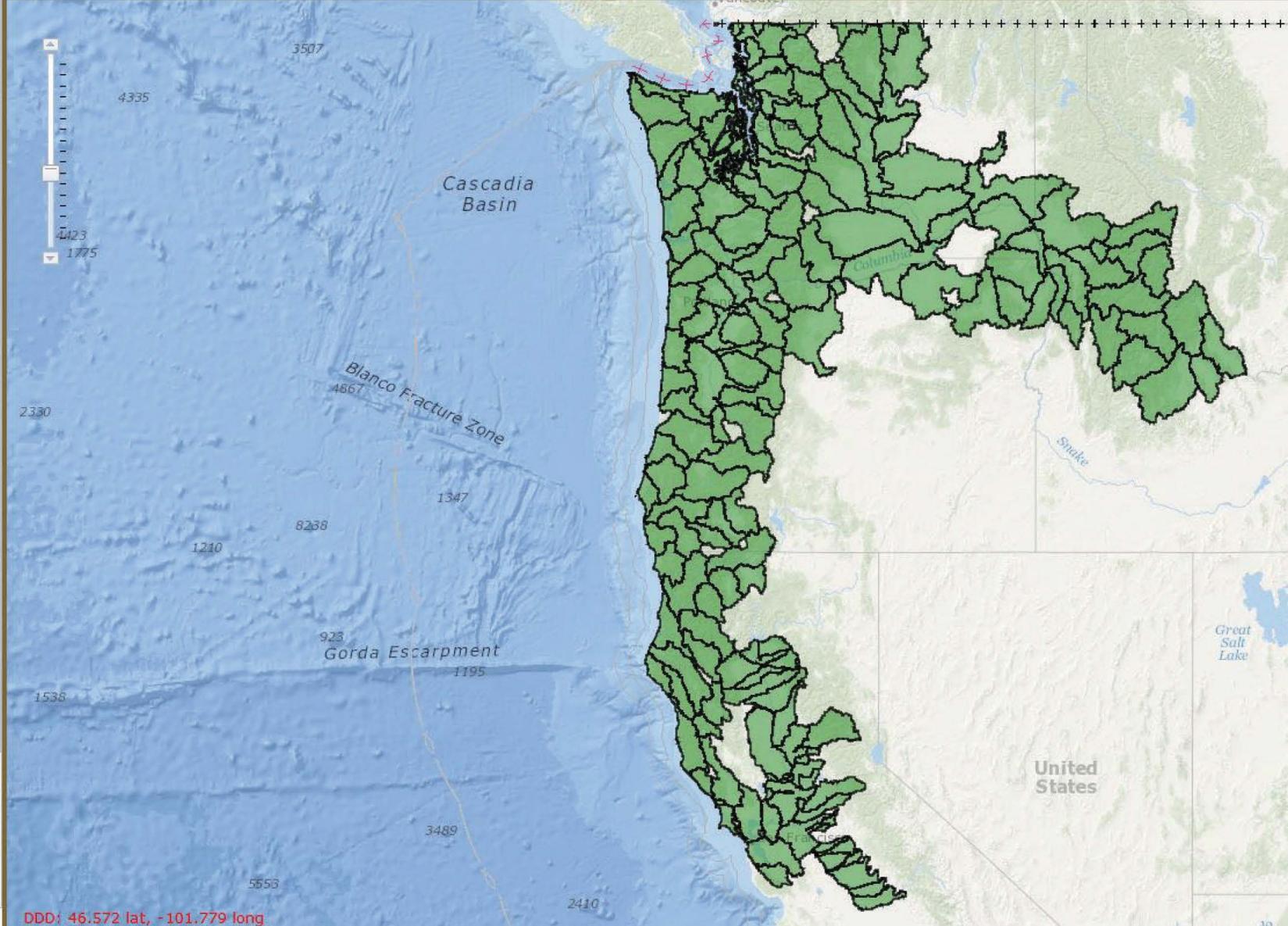
Availability based on zoom level and location

Visible Charts Transparency Not Visible

10 Minute Squares

Relevant data for the Greater Atlantic Region ONLY

Visible Data Transparency Not Visible



DDD: 46.572 lat, -101.779 long

EFH View Tool | Data Query Tool

Region: Pacific

Essential Fish Habitat: Coho Salmon

Habitat Areas of Particular Concern: [Empty]

EFH Areas Protected from Fishing: [Empty]

▼ Coho Salmon

Text Description

Data Inventory & Data Download

Salmon

0% Layer Transparency 100%

Legend

Click to switch between lifestyles if provided.

Coho Salmon

NOAA Nautical Charts

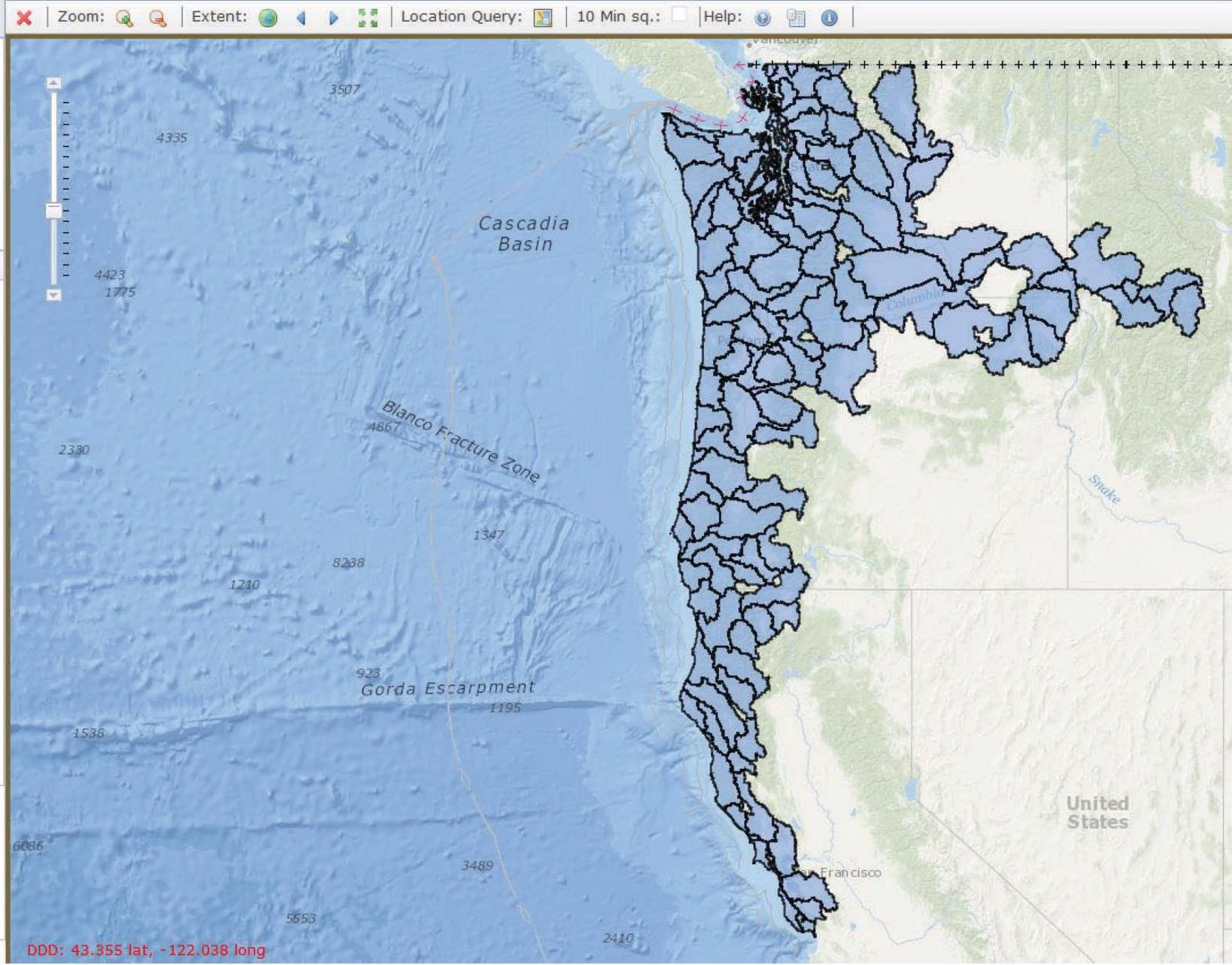
Availability based on zoom level and location

Visible Charts Transparency Not Visible

10 Minute Squares

Relevant data for the Greater Atlantic Region ONLY

Visible Data Transparency Not Visible

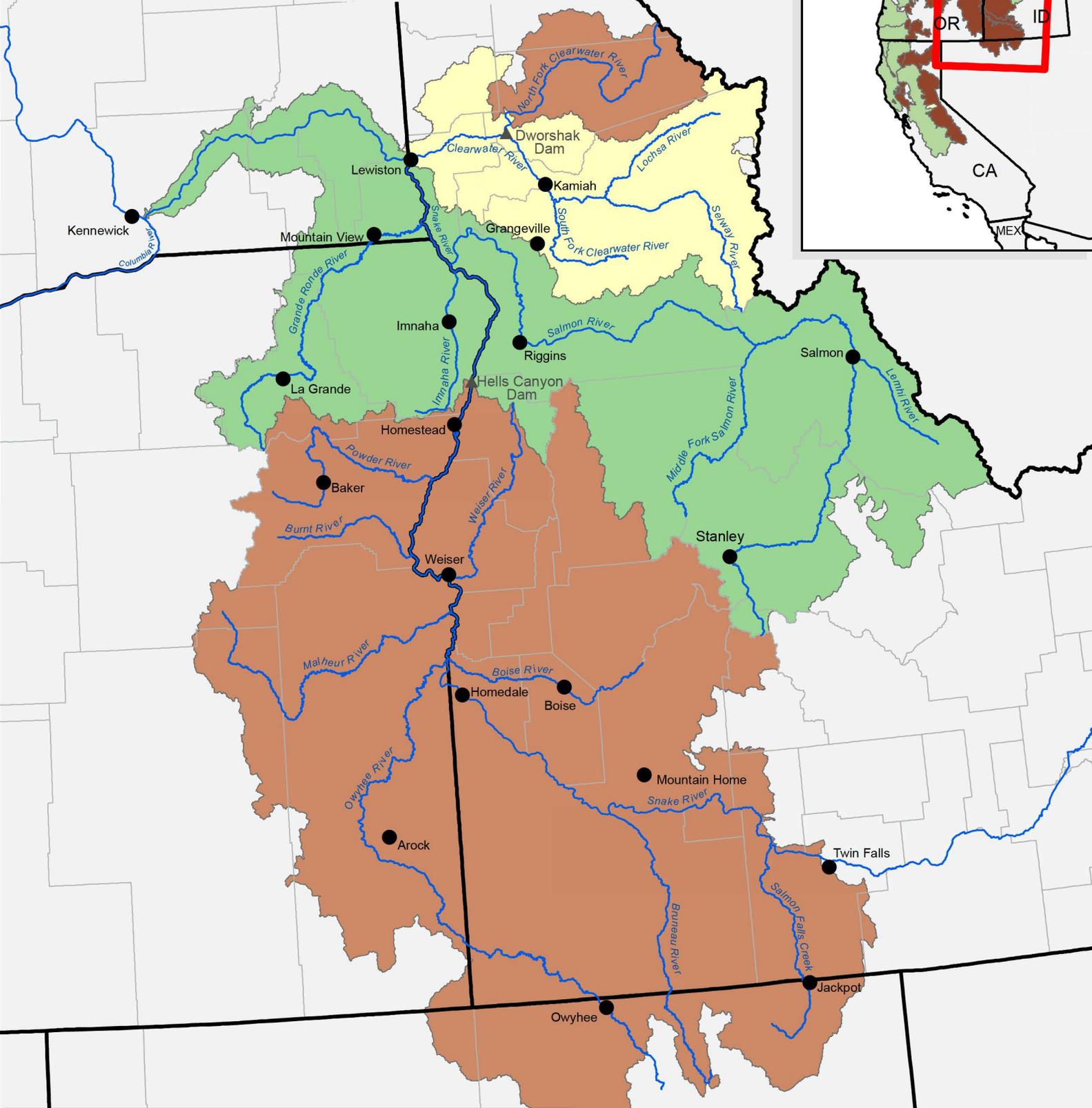
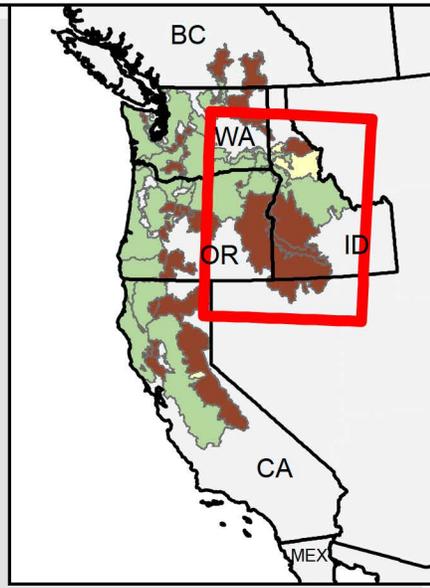




Snake River Spring\Summer-run Chinook Salmon

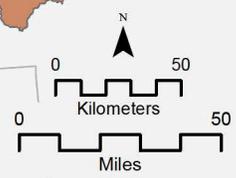
Evolutionarily Significant Unit

Current as of January 2013



Snake River Spring\Summer-run Chinook Salmon

- ESU Boundary
- Historical Watershed: Anthropogenically Blocked
- Functionally Extirpated
- County Boundary



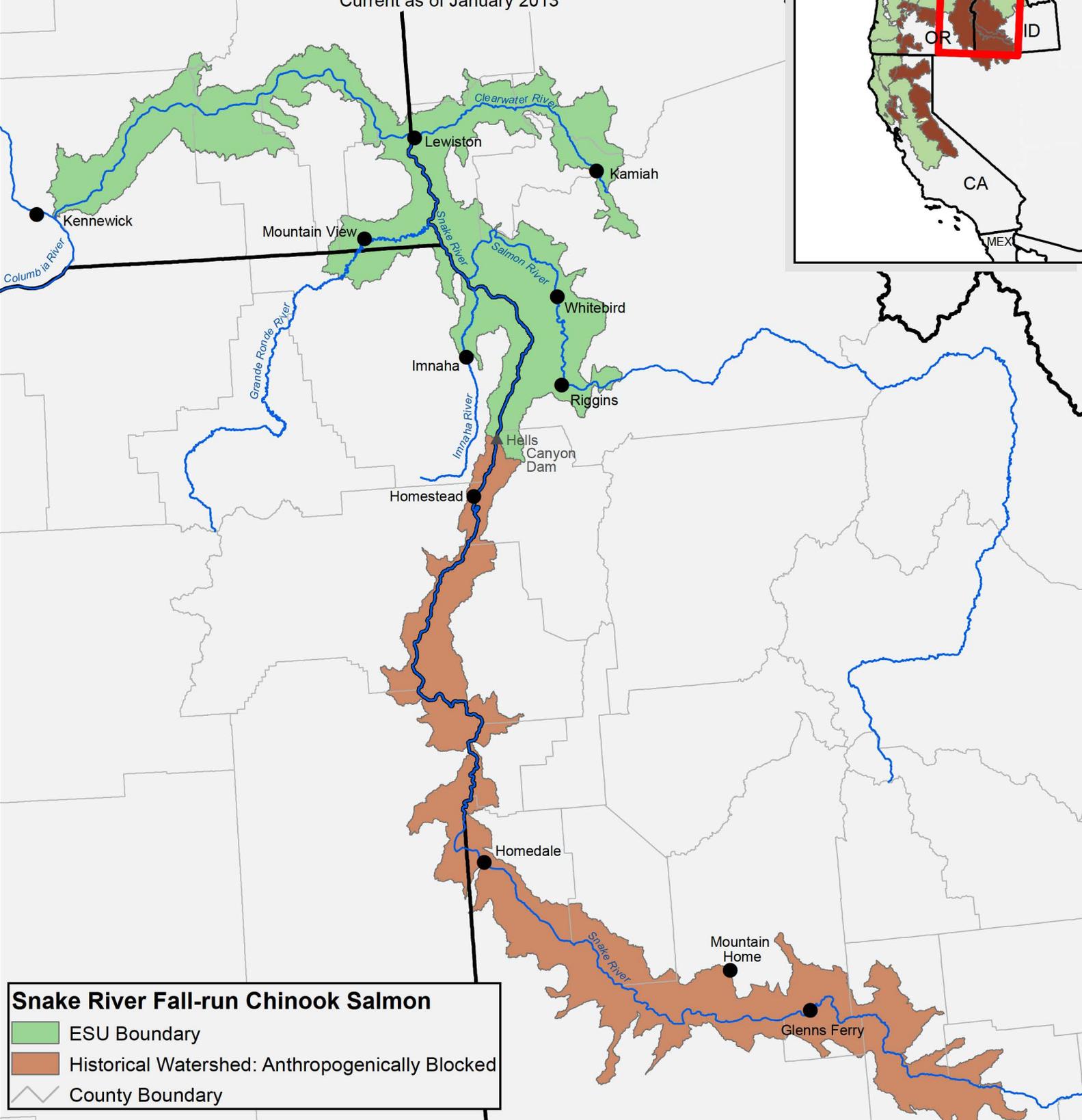
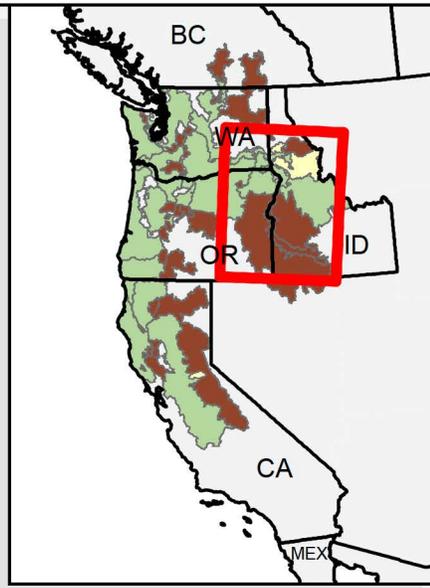
Map is for general reference only
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 National Oceanic and Atmospheric Administration
 NATIONAL MARINE FISHERIES SERVICE
 PROTECTED RESOURCES DIVISION
 1201 NE Lloyd Boulevard, Suite 1100
 PORTLAND, OREGON 97232



Snake River Fall-run Chinook Salmon

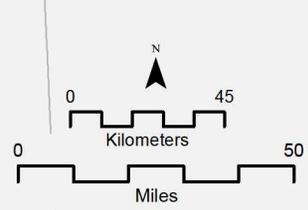
Evolutionarily Significant Unit

Current as of January 2013



Snake River Fall-run Chinook Salmon

- ESU Boundary
- Historical Watershed: Anthropogenically Blocked
- County Boundary

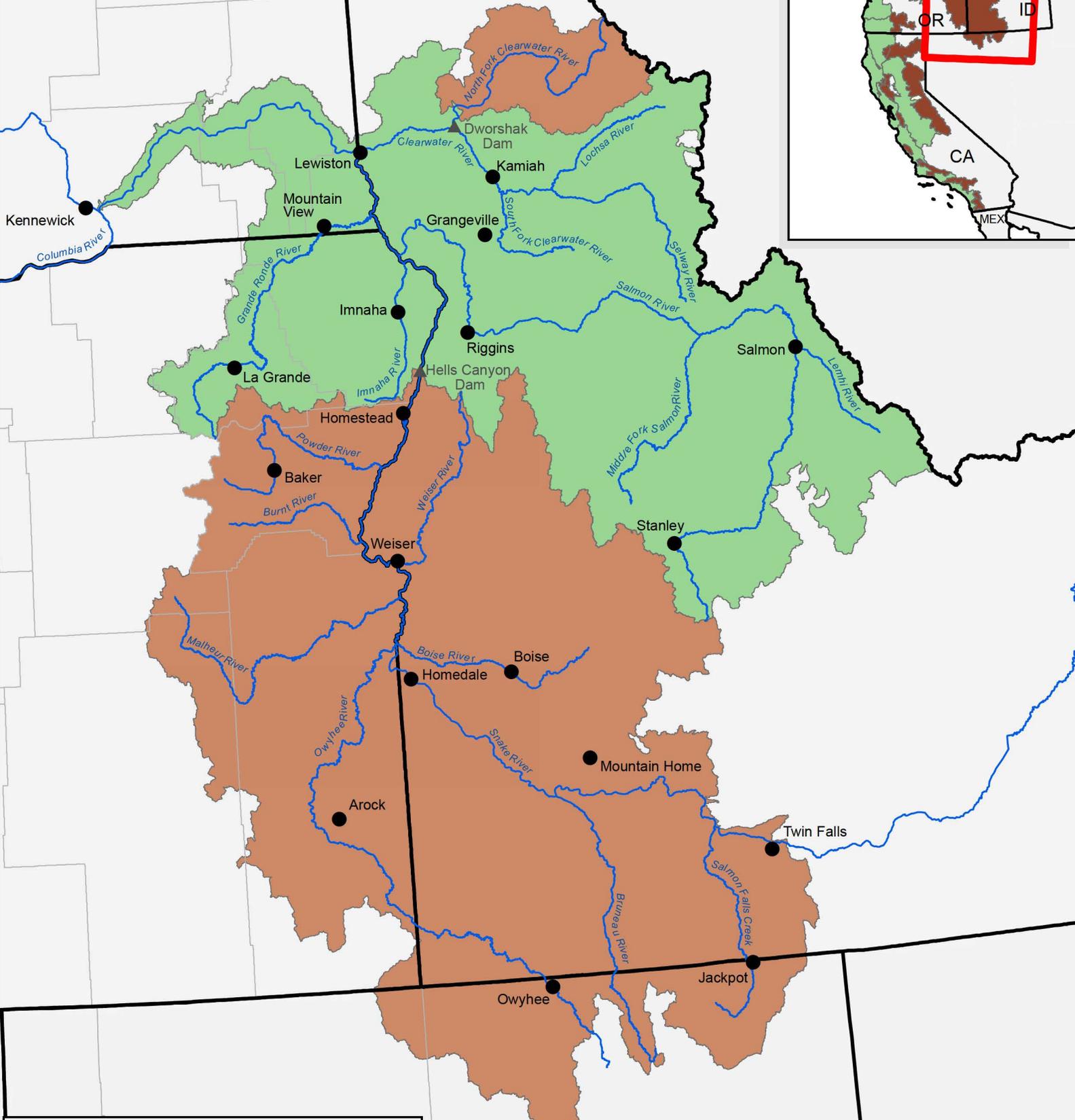
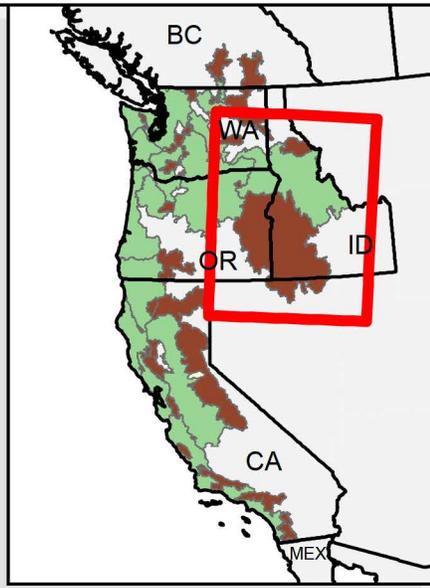


Map is for general reference only
 UNITED STATES DEPARTMENT OF COMMERCE
 National Oceanic and Atmospheric Administration
 NATIONAL MARINE FISHERIES SERVICE
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 1201 NE Lloyd Boulevard, Suite 1100
 PORTLAND, OREGON 97232



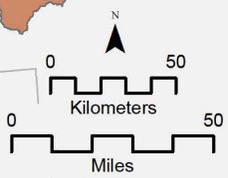
Snake River Basin Steelhead Distinct Population Segment

Current as of January 2013



Snake River Basin Steelhead

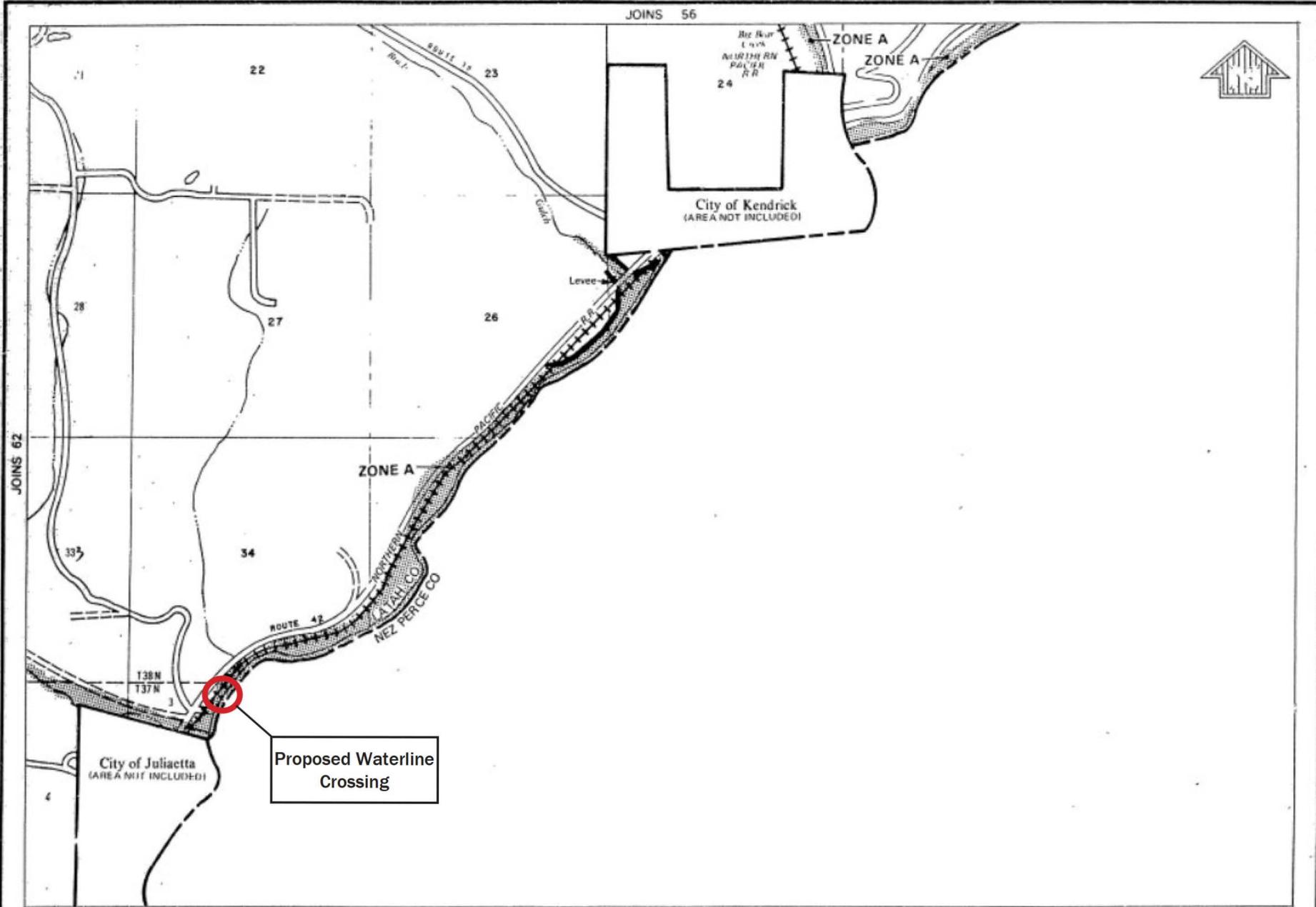
- DPS Boundary
- Historical Watershed: Anthropogenically Blocked
- County Boundary



Map is for general reference only
 UNITED STATES DEPARTMENT OF COMMERCE
 National Oceanic and Atmospheric Administration
 NATIONAL MARINE FISHERIES SERVICE
 PROTECTED RESOURCES DIVISION
 1201 NE Lloyd Boulevard, Suite 1100
 PORTLAND, OREGON 97232

Appendix D

FEMA Flood Insurance Rate Maps



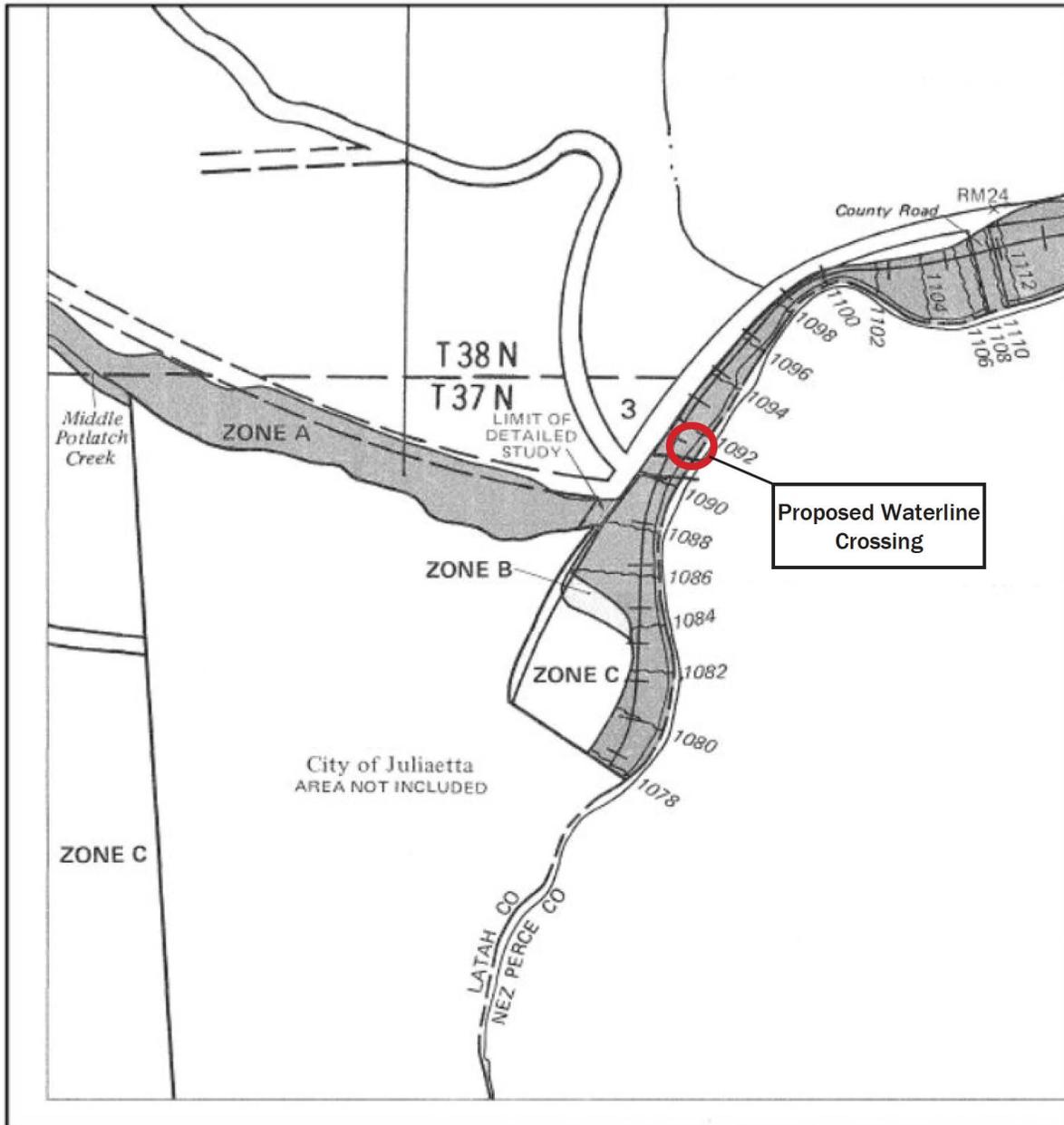
JOINS 56

JOINS 62

JOINS 0067

APPROXIMATE SCALE
 0 2000 4000 6000 FEET
 MAP REVISED 6/28/77
FLOOD HAZARD BOUNDARY MAP

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
 Federal Insurance Administration
LATAH CO., ID
 (UNINC. AREA)



APPROXIMATE SCALE



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

LATAH COUNTY, IDAHO
(UNINCORPORATED AREAS)

PANEL 460 OF 475
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
160086 0460 B

EFFECTIVE DATE:
AUGUST 15, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov