

CITY OF JULIAETTA

Emergency Water Project

Environmental Report

September 14, 2018

Prepared by:
Keri Hill, Project Manager



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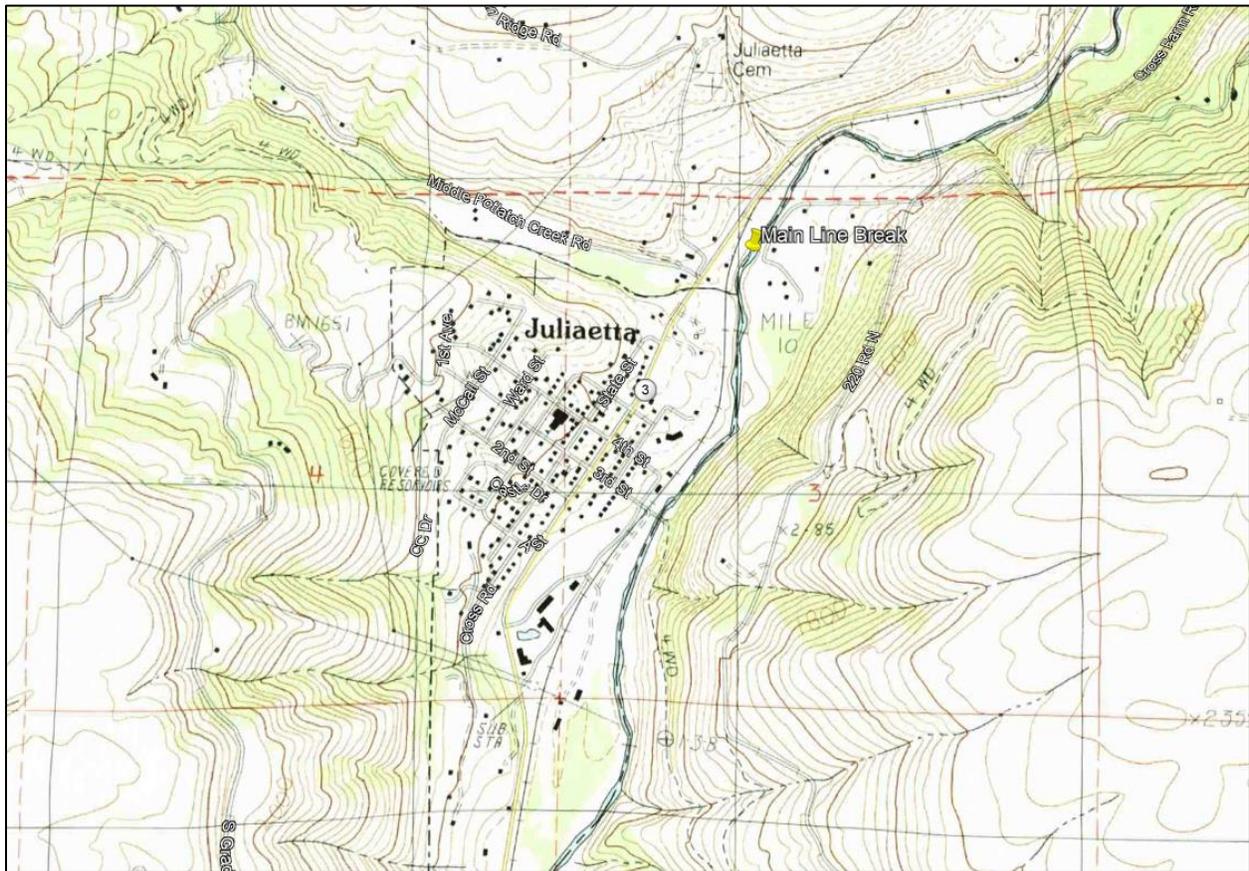
1.0 Project Description and Location

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 0.50 acres in Latah County, Figure 1-2. 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.

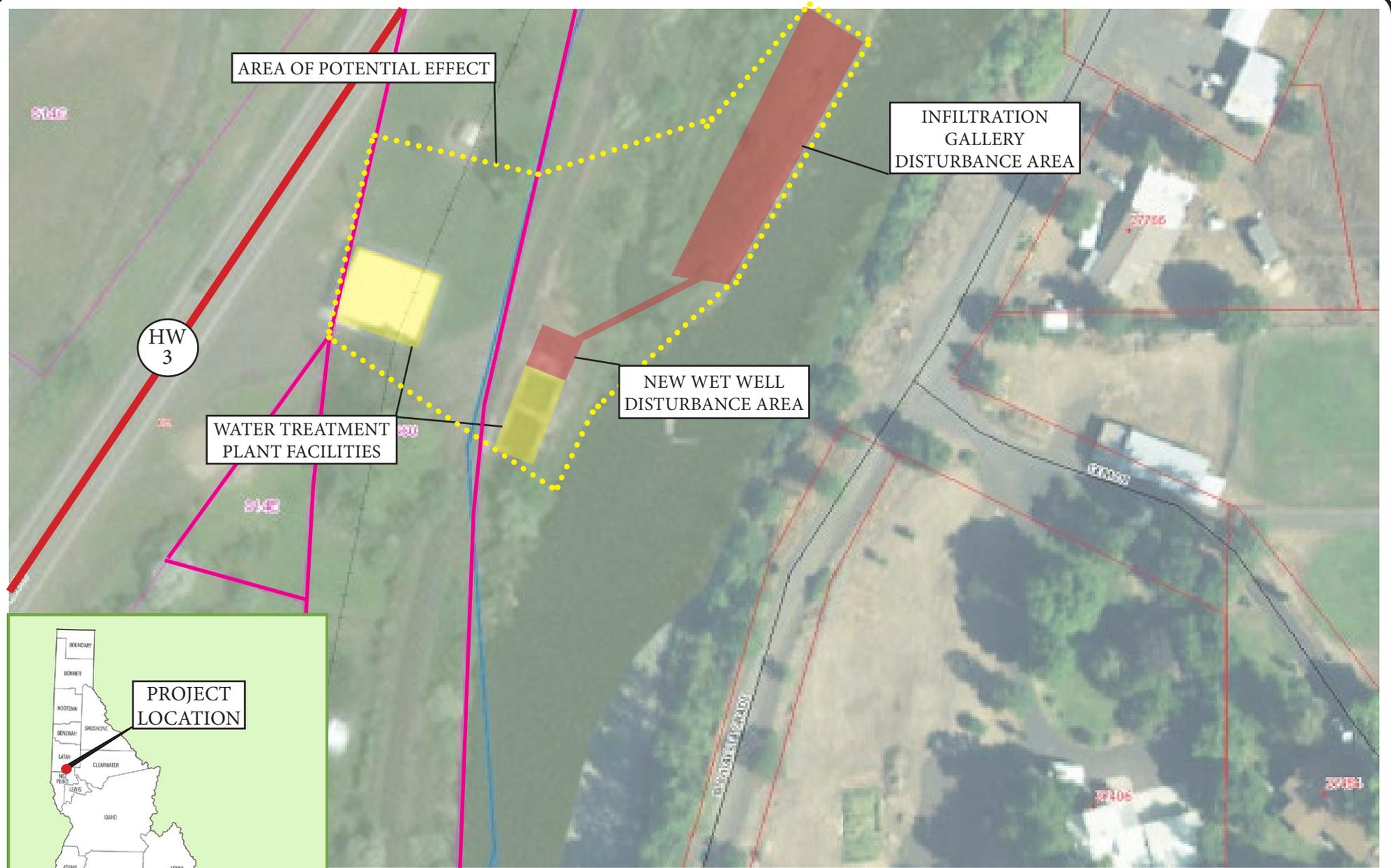


Figure 1-2
Project Map
 Emergency Water Project
 City of Juliaetta, Idaho

Improvements within the existing treatment building are upgrades to existing components and do not require any outside ground or resource disturbance. Excavation is required to replace the existing 185-foot-long subsurface infiltration gallery. The replacement gallery will be installed in the same location, although approximately three to four feet deeper than the existing gallery. The gallery dimensions will remain the same although new total depth will be approximately 19 feet below ground surface. Total required excavation would be a trench approximately 12' wide 200' long 20' deep. The finished gallery will rest approximately two feet above the very hard basalt rock layer.

To account for the deeper infiltration gallery, a new, deeper wet well will be installed immediately adjacent to the existing wet well. Total excavation to install the new wet well would be approximately 20' wide on each side and approximately 20' deep. New piping between the infiltration gallery and new wet well will be installed. Trenching to install new piping between the new wet well and infiltration gallery will be required. Installation of the VFDs on the existing raw water pumps will not require any ground disturbance and will be on existing structures.

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 new wet well location is separated from the seasonal wetlands by approximately

10 feet of elevation. Construction of the new infiltration gallery could potentially temporarily disturb the identified seasonal wetland area while the required piping connection will directly bisect the wetland area. Construction would take place during the summer months when the area is dry and water levels are significantly reduced. All structures to be installed within the proximity of the seasonal wetlands are subsurface and full restoration of the area would be contractually required of the contractor.

Consultation with the US Army Corps of Engineers (USACE) determined that this project will be able to utilize the Nationwide Permit No. 3 for maintenance on previously authorized infrastructure (12/3/1991, File No. 071-0YC-004627). USACE consultation response is included as Appendix D.

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 complete report is included for reference in Appendix B.

1.3 Floodplains

The APE is identified as being within an area of 100-year floodplain with no base flood elevations determined, Zone A. The subsurface infiltration gallery would not change the fill elevation along the river and all ground disturbance would be returned to existing condition and elevation. The new wet well location, being directly adjacent to the existing wet well, is approximately 10 feet above the river surface. The existing wet well and backwash facility are reinforced by rip-rap for flood protection. No change in fill or elevation will occur due to this project.

The referenced Flood Insurance Rate Map (FIRM) issued by FEMA in 1980 and provided by the State Floodplain Coordinator is included as Appendix C.

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. All property is previously disturbed due to prior water treatment plant installation in 1993 and the former railroad, now a paved recreational trail. Figure 1-2 depicts all areas of potential disturbance.

Consultation with the Idaho State Historical Preservation Office determined that the proposed project would have "no adverse effect" to historic properties. Idaho SHPO consultation is included as Appendix D.

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>

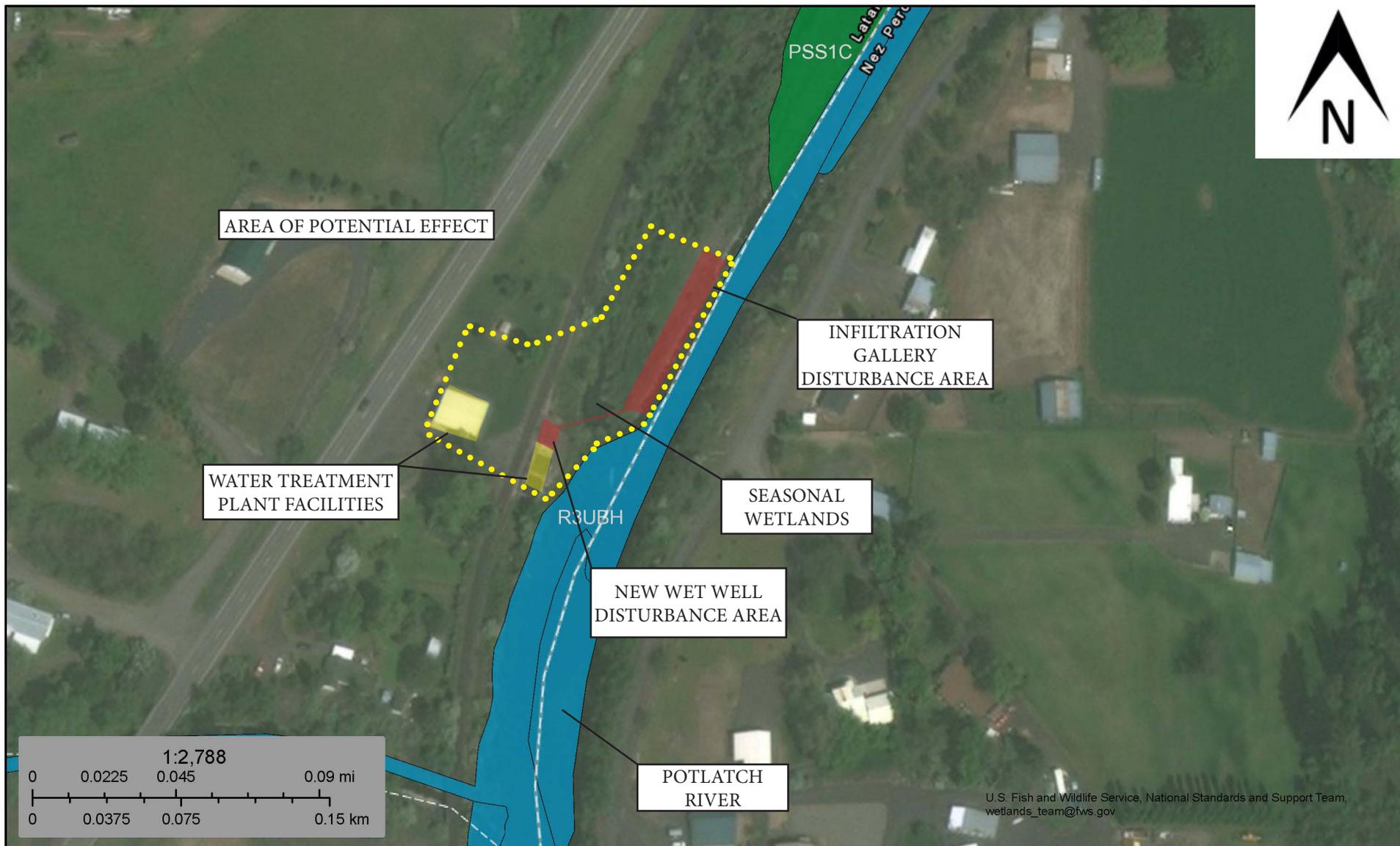
United States Fish and Wildlife Service (USFWS). 2018. Information for Planning Consultation (IPaC) Website. Available at: https://history.idaho.gov/sites/default/files/uploads/NRHP_Idaho.pdf

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



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

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:
Consultation Code: 01EIFW00-2018-SLI-1346
Event Code: 01EIFW00-2018-E-02824
Project Name: Juliaetta Emergency Water Project

May 30, 2018

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

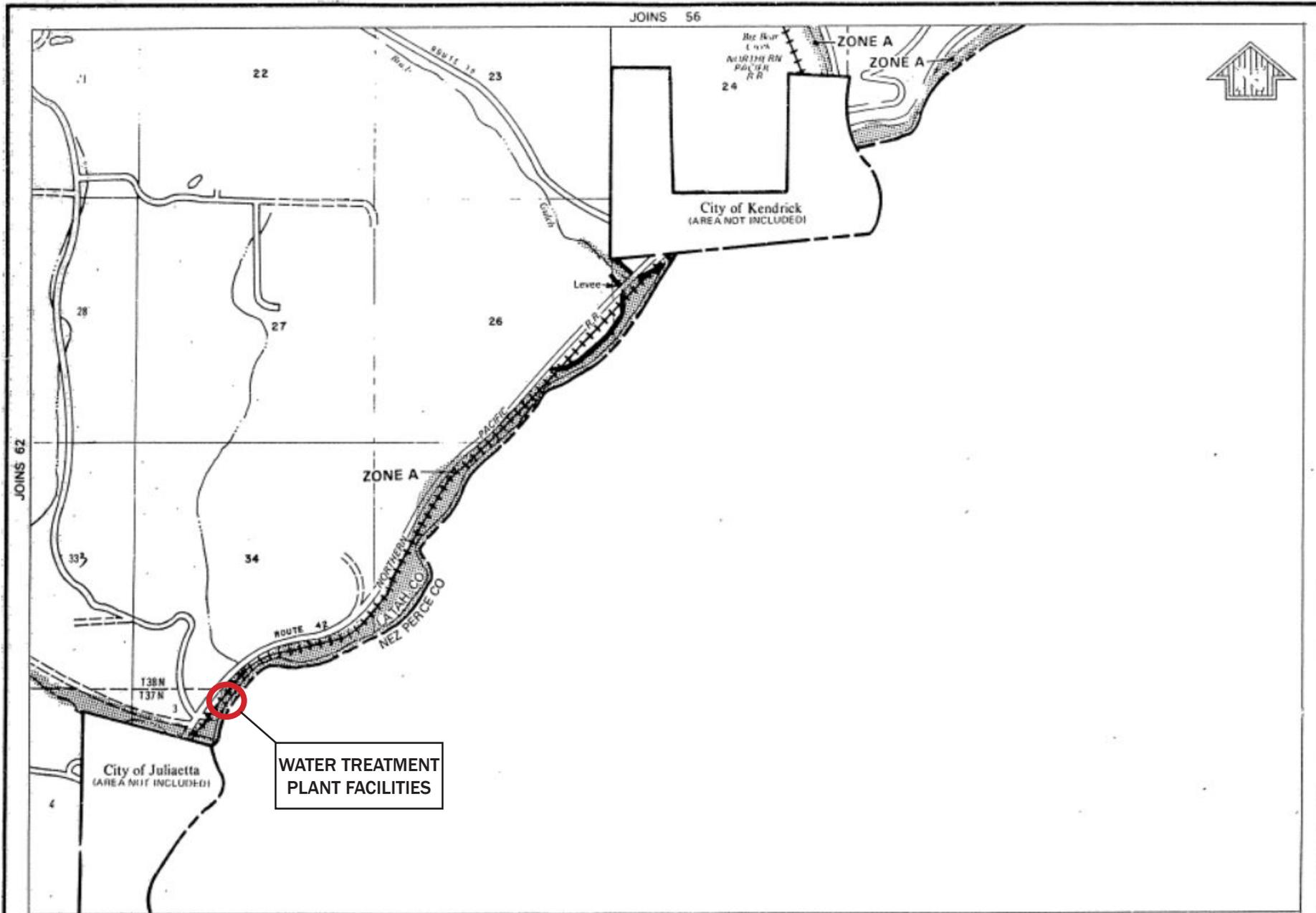
NAME	STATUS
Spalding's Catchfly <i>Silene spaldingii</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3681	Threatened

Critical habitats

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

Appendix C

FEMA Flood Insurance Rate Maps



JOINS 56

JOINS 62

JOINS 0067

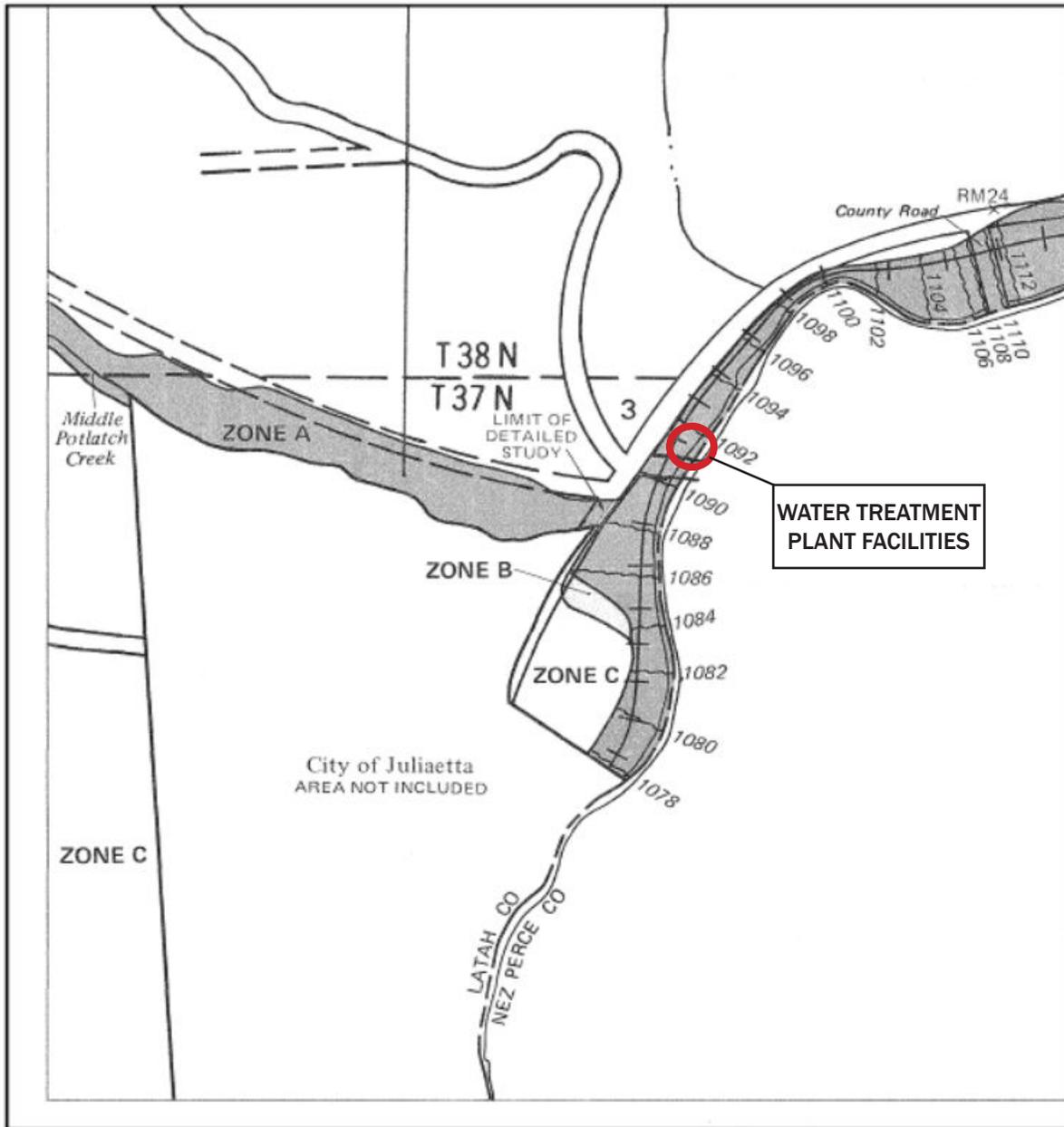


MAP REVISED
6/28/77

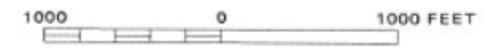
FLOOD HAZARD BOUNDARY MAP

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

Appendix D

Consultation Responses

Keri Hill

From: Roberts, Jeremy N CIV USARMY CENWW (US) <Jeremy.N.Roberts@usace.army.mil>
Sent: Friday, September 7, 2018 10:31 AM
To: Keri Hill
Subject: RE: Juliaetta Consultation

Good morning Ms. Hill,

The activity of replacing an existing infiltration gallery within the footprint of the original impacts within jurisdictional Waters of the United States may be an exempt activity under Section 404 of the Clean Water Act. A previous authorization from 3 December 1991 under file number "071-0YC-004627" permitted fills associated with the original infiltration system, and maintaining these fills within their footprint and design is exempt.

If you would like to request an official Corps' determination of your project, please submit a signed joint application for permits. If you have any questions, please feel free to reach out.

Thank you,

Jeremy Roberts
U.S. Army Corps of Engineers
Walla Walla District
Coeur d'Alene Regulatory Office
1910 Northwest Blvd., Suite 210
Coeur d'Alene, ID 83814
(208) 433-4475

-----Original Message-----

From: Keri Hill [mailto:khill@greatwesteng.com]
Sent: Wednesday, September 5, 2018 3:27 PM
To: Roberts, Jeremy N CIV USARMY CENWW (US) <Jeremy.N.Roberts@usace.army.mil>
Subject: [Non-DoD Source] Juliaetta Consultation

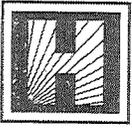
Hi Jeremy,

Thanks again for your time on this. Attached is the consultation letter, please call with any questions on the project.

Thank you,

Keri Hill | Associate Project Manager

Great West Engineering, Inc.



IDAHO STATE
**HISTORICAL
SOCIETY**



C.L. "Butch" Otter
Governor of Idaho

Janet Gallimore
Executive Director
State Historic
Preservation Officer

Administration:
2205 Old Penitentiary Rd.
Boise, Idaho 83712
208.334.2682
Fax: 208.334.2774

Idaho State Museum:
610 Julia Davis Dr.
Boise, Idaho 83702
208.334.2120

**Idaho State Archives
and State Records
Center:**
2205 Old Penitentiary Rd.
Boise, Idaho 83712
208.334.2620

**State Historic
Preservation Office:**
210 Main St.
Boise, Idaho 83702
208.334.3861

**Old Idaho Penitentiary
and Historic Sites:**
2445 Old Penitentiary Rd.
Boise, Idaho 83712
208.334.2844

HISTORY.IDAHO.GOV

30 August 2018

Great West Engineering
Attn: Keri Hill
3050 N Lakeharbor Lane #201
Boise, Idaho 83703

Re: City of Juliaetta Emergency Water Project / SHPO# 2018-829

Dear Ms. Hill:

Thank you for consulting with our office on the above referenced project. We understand the scope of work includes improvements to the surface water treatment plant and its processes, including filter bed and a new well, located in Juliaetta, Latah County, Idaho.

Pursuant to 36 CFR 800, we have applied the criteria of effect to the proposed undertaking. Based on the information received 16 August 2018, we concur the proposed project actions will have **no adverse effect** to historic properties.

In the event that cultural material is inadvertently encountered during implementation of this project, work shall be halted in the vicinity of the finds until they can be inspected and assessed by the appropriate consulting parties.

If you have any questions or the scope of work changes, please contact me via phone or email at 208.488.7468 or matt.halitsky@ishs.idaho.gov.

Sincerely,

Matthew Halitsky, AICP
Historic Preservation Review Officer
Idaho State Historic Preservation Office