SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to **all parts of your proposal**, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for lead agencies

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the <u>Supplemental Sheet for Nonproject Actions (Part D)</u>. Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

A. Background Find help answering background questions

1. Name of proposed project, if applicable:

City of White Salmon Water System Plan 2023

2. Name of applicant:

City of White Salmon

3. Address and phone number of applicant and contact person:

Applicant: Andrew Dirks, Public Works Director

City of White Salmon 100 North Main Street White Salmon, WA 98672

(509) 493-1133

Contact: David Jepsen, PE

Anderson Perry & Associates, Inc.

P.O. Box 1687

Walla Walla, WA 99362

(509) 529-9260

4. Date checklist prepared:

September 18, 2023

5. Agency requesting checklist:

Washington State Department of Health

6. Proposed timing or schedule (including phasing, if applicable):

Approval of the Water System Plan – summer of 2023. Implementation of improvement projects identified in Plan over the next 20 years.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

The Water System Plan identifies proposed improvements to the City of White Salmon's water system that need to take place over the next 20 years to meet White Salmon's projected water needs and be able to supply a safe and reliable amount of water to its residents.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Previous Environmental Information: 1) SEPA Environmental Checklist for 2014 City of White Salmon Water System Plan (November 2, 2012); 2) City of White Salmon Aquifer Storage and Recovery Feasibility Assessment, Aspect Consulting (April 22, 2011); 3) Environmental Report for Transmission Main Replacement Improvements, Phase I (December 2020); 4) Engineering Report Addendum, Communication Improvements (February 25, 2022); 5) SEPA Checklist for Transmission Main Replacement Improvements Phase II (November 2022 final draft, not published), and 6) SEPA Environmental Checklist for North Main-Spring Street Water Improvements (June 28, 2023, to be published).

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No approvals are pending at this time.

10. List any government approvals or permits that will be needed for your proposal, if known.

The Water System Plan needs to be approved by the Washington State Department of Health, Office of Drinking Water. The Department of Ecology will review and may comment on water rights documentation in the Water System Plan. The Local Government Consistency Checklist needs to be reviewed by Klickitat and Skamania Counties, City of White Salmon, and City of Bingen.

11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Water System Plan is a document covering all aspects of the City's water system. The plan includes projected water demands for the next 20 years (2021 - 2041) and identifies capital improvement projects needed over the next 20 years to meet the needs of White Salmon. The plan covers physical facilities (sources, reservoirs, and water lines), operational plans, source water protection, financial status of the water system, and projected costs of the improvements. The area covered under this plan is the City's current and future water service area.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The legal description includes Township 4 North, Range 10 East, Sections 16, 21, 22, 27, 34, and 35; Township 3 North, Range 10 East, Sections 2, 3, 10, 11, 13, 14, 23, 24, and 25; and Township 3 North, Range 11 East, Sections 18, 19, 29, 30, 31, 32, and 33, all referenced to the Willamette Meridian. The

location of the proposal encompasses the City's current and future water retail service areas. See Figure 1-1 for Location and Vicinity maps, Figure 1-2 for overall water system map and Figures 1-3 through 1-10 for the City's current and future water service areas.

B. Environmental Elements

1. Earth Find help answering earth questions

a. General description of the site:

The bulk of the City of White Salmon water service area lies on a terrace overlooking the Columbia River. The service area extends to the City of Bingen and the Columbia River to the south, the White Salmon River to the west, up the White Salmon River Valley to the area near Northwestern Lake Road and Powerhouse Road, all in Klickitat County, and along Lakeview Road on the west side of the White Salmon River in Skamania County.

The water service area that includes the City of White Salmon and its urban growth boundary varies in elevation from approximately 300 feet above mean sea elevation (MSEL) to around 900 feet above MSEL. The area generally slopes to the south and east with steep hillsides on the southern portion the area facing the Columbia River. The White Salmon River Valley has a wide, flat floor with hills and mountains rising abruptly to elevations ranging from 1,000 to 4,000 feet. The City's surface water source diversion is located at an elevation of approximately 1,000 feet on Buck Creek.

Circle or highlight one: Flat, rolling, hilly, steep slopes, mountainous, other:

b. What is the steepest slope on the site (approximate percent slope)?

According to the Natural Resources Conservation Service (NRCS) Soil Resource report, the steepest slope within the proposed project site is an area with 60 percent slopes.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them, and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The primary soil units in the City of White Salmon and its urban growth boundary are Chemawa ashy loam and Hood loam. Within the White Salmon River Valley of the City's water service area, the major soil units are Hood loam, Oreoke-Beeze complex (30 to 75 percent), and Husum gravelly ash loam.

The Chemawa soils are very deep and primarily reside on terraces. These soils were formed in pyrolcatic flows composed of volcanic ash. The Hood soils are also very deep and are located on terraces and terrace escarpments. The Hood soils were formed in lacustrine deposits. The Oreoke Breezee complex is in the canyon portion of the White Salmon River Valley and is colluvium derived from basalt mixed with loess. The Husum gravelly ash loam is located on the flat portion of the White Salmon River Valley and is alluvium derived from basalt mixed with volcanic ash. The soils along Buck Creek are generally designated ashy loam or gravelly ashy loam. The predominant type is McElroy gravelly ashy loam, with small amounts of Dystroxerepts and McElroy-Rock outcrop complex. These soils range from nearly level to steep slopes and are well drained.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

State Highway 141A experienced a landslide event during the storm of 1996. The tributaries east of Jewett Creek and the lower face of Bourdoin Mountain are designated as hazard landslide areas outside the City's water service area.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

No filling or grading is identified or proposed in this Water System Plan. However, capital improvement projects outlined in the plan, such as new water lines, typically require filling or grading as part of the project. Quantities needed will not be known until project designs are completed.

f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

Erosion is not anticipated for most of the capital improvement projects described in the Water System Plan. Temporary erosion could potentially occur in the steep portions of the pipe alignment for the transmission main from the City's water sources. Erosion and sediment best management practices (BMPs) and controls would be specified in the construction contract documents for this project. The contractor would be required to comply with contract document provisions.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

New water lines do not create impervious surfaces, although they are usually placed under streets that are impervious. New pump station buildings would create an impervious area. The extents of these areas are not known in this Water System Plan and will not be known unless White Salmon proceeds with a project and completes design of the project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

Any potential erosion as a result of these projects should be minimal. Any necessary measures to reduce or control erosion will be determined during project design and incorporated into an Erosion Control Plan specific for the project improvement. BMPs consistent with the Stormwater Management Manual for Eastern Washington will be used to minimize the risk of erosion. Once construction is completed within the proposed project area, disturbed areas will be restored, if required.

2. Air Find help answering air questions

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

No air emissions are projected from the completion of this Water System Plan. Construction of capital improvement projects described in the plan would create automobile and industrial equipment emissions as part of construction, but no emissions would result following completion of the projects.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No off-site sources of emissions or odor have been identified that will affect the proposed project.

c. Proposed measures to reduce or control emissions or other impacts to air, if any.

Construction equipment will be well-maintained, and equipment will be turned off when not in use to reduce carbon monoxide and particulate emissions from gasoline and diesel engines. Dust abatement, including watering, will be implemented to control dust as needed.

- **3. Water** Find help answering water questions
- a. Surface Water: Find help answering surface water questions
- 1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

White Salmon River, Jewett Creek, Columbia River, and Buck Creek all exist within or adjacent to the project area. Several wetlands have been mapped and are included in the United States Fish and Wildlife Service's National Wetlands Inventory (NWI) Database.

Several freshwater ponds (PUBHh, PUBFh, and PUBHs) exist adjacent to or in the City's water retail service area. Two are out near Powerhouse Road (one wetland area is not visible on aerial imagery and the other may have been artificially constructed based on historical aerial imagery), and one is just east of Cochran Lane and off SR14 just east of the Hood River Bridge.

Several freshwater emergent (PEM/FOIC) and forested/shrub (PFOICh) wetlands are shown on the NWI map between SR14 and the Columbia River. Aerial imagery, however, indicates that some of these wetlands (the freshwater emergent wetland, for example) have been developed into an urban environment and likely no longer exist in a natural state. No wetlands are anticipated to be impacted by the proposed project. If wetlands are identified within the proposed project area, they would be avoided to the greatest extent possible, and appropriate permits from Ecology and USACE would be obtained for temporary or permanent removal/fill in wetlands. Appropriate mitigation would be provided if impacts were permanent.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Replacement of the existing 14-inch transmission main from Buck Creek source will be within 200 feet of Buck Creek.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

The amount and location of fill and dredge material to be placed in or removed from surface water or wetlands is not identified in the plan. This information will be determined during the design of the project.

4. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities if known.

The City is already withdrawing water from Buck Creek for potable water purposes. Approximately 930 acre-feet of water per year was diverted from Buck Creek in 2011.

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The only areas in the White Salmon service area that are within a 100-year floodplain are adjacent to the Columbia and White Salmon Rivers. The only part of the water system within these areas is the 16-inch diameter water main crossing over the White Salmon River. This crossing is suspended above the river and outside the 100-year floodplain.

6. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No, the proposed project is not anticipated to involve discharges of waste material to surface waters.

- **b. Ground Water:** Find help answering ground water questions
- 1. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.

The City currently withdraws groundwater for potable water use. The City is in the process of implementing an aquifer storage and recovery (ASR) system for Well No. 2. During the wet season months, water from Buck Creek will be diverted into Well No. 2. During the dry season months, water will be withdrawn from Well No. 2 for use in the City's service area.

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (domestic sewage; industrial, containing the following chemicals...; agricultural; etc.).

Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

The City's Water System Plan does not involve discharge of waste material into the ground.

- c. Water Runoff (including stormwater):
- a) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The City's Water System Plan does not involve runoff, collection or disposal of water.

b) Could waste materials enter ground or surface waters? If so, generally describe.

Waste materials could enter ground or surface water from the resulting construction of the proposed improvements in the Water System due to accidental fuel leaks or spills during construction; however, this would be contained on site using spill kits and other BMPs.

c) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No, the proposed project will not impact overall drainage patterns in the vicinity.

d) Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any.

Any necessary measures to reduce or control erosion will be determined during project design and incorporated into an Erosion Control Plan for the specific project improvement. Provisions will be included in the contract documents for BMPs consistent with the Stormwater Management Manual for Eastern Washington to be implemented for construction of the improvements, as well as other requirements imposed by the City of White Salmon, Klickitat County, Washington State Department of Transportation (WSDOT), and state regulations and permits.

4. Plants Find help answering plants questions

1.	Check the types of vegetation found on the site:
	☑ deciduous tree: alder, maple, aspen, other
	☑ evergreen tree: fir, cedar, pine, other
	<u>⊠</u> shrubs
	□ pasture
	☐ crop or grain
	☑ orchards, vineyards, or other permanent crops.
	$\overline{\ }$ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
	☐ water plants: water lily, eelgrass, milfoil, other
	☐ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Some incidental vegetation may be removed or altered as a result of the completion of improvements proposed in this Water System Plan. The specific kind and amount of vegetation would be determined during project design.

c. List threatened and endangered species known to be on or near the site.

No threatened or endangered plant species are known to be on or near the site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.

Completion of all capital improvement projects described in this Water System Plan will include landscaping, which will enhance vegetation on project sites. This includes planting of native trees and shrubs and removal of invasive noxious weeds.

e. List all noxious weeds and invasive species known to be on or near the site.

Noxious weeds and invasive species that may be present include Himalayan blackberry, scotch broom, English ivy, Japanese knotweed, tansy ragwort, knapweed, various thistles, cheatgrass, tree of heaven, and reed canarygrass.

5. Animals Find help answering animal questions

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

Birds: hawk, heron, eagle, songbirds, other:

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other: steelhead

b. List any threatened and endangered species known to be on or near the site.

Listed species in the vicinity of the proposed project area were obtained from the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) databases. The USFWS list indicates that one endangered species, three threatened species, and one proposed threatened species may occur in the vicinity of the proposed project area. Gray wolf (*Canis lupus*) is listed as endangered; however, this species is not likely to be encountered or impacted due to lack of suitable habitat and the transitory nature of this species. Bull trout (*Salvelinus confluentus*) conterminous U.S.A. Distinct Population Segment (DPS) is listed as threatened and should be anticipated to occur in the White Salmon River. The northern spotted owl (*Strix occidentalis caurina*) is listed as threatened; however, the preferred habitat of this species is oldgrowth forests, which are not present at the proposed project area. The western U.S. yellow-billed cuckoo (*Coccyzus americanus*) DPS is listed as threatened; however, the preferred habitat of this species is dense riparian forests, which are not present at the proposed project area.

The NMFS lists threatened Columbia River chum salmon, Lower Columbia River chinook salmon, Lower Columbia River coho salmon, and Middle Columbia River steelhead as potentially occurring in the White Salmon River. Columbia River chum salmon, Upper Columbia River chinook salmon, Lower Columbia River steelhead, Middle Columbia River steelhead, Upper Columbia River Steelhead, and Snake River Basin Steelhead reside in or use the Columbia River for migration.

The Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) website also identifies the potential for northern spotted owl to occur in the vicinity of the proposed project area.

Critical habitat for listed bull trout, salmon and steelhead is present in the White Salmon River, and temporary erosion could occur from construction activities in the vicinity of the river; however, these potential impacts to critical habitat will be mitigated using BMPs. Given the lack of in-water work and mobile nature of these species, it is unlikely any of these species or habitat will be impacted by the proposed action.

c. Is the site part of a migration route? If so, explain.

The White Salmon River and the Columbia River are used as migration routes by endangered and threatened salmon and steelhead from different water basins. The proposed project also lies within the Pacific Flyway for migratory birds; however, the proposed project is not anticipated to have an impact on migratory birds.

d. Proposed measures to preserve or enhance wildlife, if any.

The Water System Plan does not degrade wildlife or wildlife habitat.

e. List any invasive animal species known to be on or near the site.

No invasive animal species are known to exist on or near the site.

6. Energy and Natural Resources Find help answering energy and natural resource questions

 What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The Water System Plan does not require any energy following adoption. Electricity would be used to run pumps, valves, and telemetry during project construction and operation.

2. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No, the proposed project will not shade adjacent properties and will not affect the potential use of solar energy by nearby properties.

3. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

The Water System Plan includes a water use efficiency program to reduce water usage by customers. A reduction in water usage would reduce electrical usage by the City to pump water and conserve energy.

7. Environmental Health Find help with answering environmental health questions

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

No specific environmental health hazards are anticipated to be associated with the completed project.

1. Describe any known or possible contamination at the site from present or past uses.

The Ecology Facility/Site Database (https://apps.ecology.wa.gov/facilitysite/MapData/MapSearch.aspx) and What's in My Neighborhood Database (https://apps.ecology.wa.gov/neighborhood) list numerous sites in the vicinity of the proposed project area. Approximately 25 sites are listed for stormwater/construction permits, 16 sites are listed for air quality monitoring, 23 sites are listed for hazardous waste storage or generation, six sites are listed for water quality monitoring, 18 sites are listed for underground storage tanks and 13 sites are listed for leaking underground storage tanks. A majority of these sites are listed for monitoring purposes only and have no documented contamination. Five sites with documented contamination are listed with a status of Cleanup Started:

- The Klickitat County Shop White Salmon site (Facility Site ID 76225533) is listed for petroleum contamination of soil; confirmed above cleanup levels.
- The Town Pump Gas Station site (Facility Site ID 403) is listed for petroleum contamination of soil; remediated but remains on site above cleanup standards.
- The Hunsaker Oil Company Inc. Bingen site (Facility Site ID 28537434) is listed for petroleum, benzene, and non-halogenated solvent contamination of soil and groundwater; confirmed above cleanup levels.
- The Wilson Oil II site (Facility Site ID 13233349) is listed for petroleum contamination of soil; confirmed above cleanup levels.
- The Unocal Bulk Plant 0046 site (Facility Site ID 61834259) is listed for petroleum contamination of soil and groundwater; confirmed above cleanup levels; as well as listed for suspected petroleum contamination of surface water.

None of these sites are anticipated to impact this Water System Plan; however, if any of the capital improvement projects proposed in the Plan would occur in the vicinity of any of these sites, further investigation should be conducted prior to any ground disturbing activities.

2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

Natural gas pipelines owned by Northwest Natural Gas and Williams Pipelines exist in the project area.

3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Fuel, oils, and lubricants will be used in motorized vehicles and equipment during construction. It is not anticipated that any toxic or hazardous chemicals will be stored, used, or produced at the proposed project location. The City has an existing emergency response plan. No special emergency services will be required from completion of the Water System Plan.

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4. Describe special emergency services that might be required.

None for the Water System Plan.

5. Proposed measures to reduce or control environmental health hazards, if any.

Not applicable.

- b. Noise
- 1. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

No noise currently exists which might affect the Water System Plan.

2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would. come from the site)?

Construction noise from vehicles and equipment would be created during the construction of any capital improvement project described in the Water System Plan. No noise would be created after completion of a project.

Short-term: All noise created by the projects would be intermittent and temporary in nature and confined to project sites during daylight hours (6:00 a.m. to 6:00 p.m.) for the duration of the project. Construction noise may be audible to residents in surrounding neighborhoods. Commuters and pedestrians traveling in the vicinity of the project may notice temporary noise. Any noise generated in these areas will dissipate quickly as commuters and pedestrians distance themselves from the source. Since the proposed work is transitory, the impact to the surrounding areas is temporal and not anticipated to result in continuous exposure at harmful levels.

Long-term: The installation and operation of emergency generators to provide electricity for maintaining water service at several sites would create additional noise during a power outage. The emergency generators would only operate during a power outage and monthly (20 to 30 minutes) to exercise the generator and maintain its working function.

Some additional noise may be generated by the installation of new pump stations. These pump stations would operate when needed to provide water to the system.

3. Proposed measures to reduce or control noise impacts, if any.

The noise from the pump stations and emergency generator will be mitigated by installing the pumps in a building or structure with noise reduction measures and installing a noise dampening hood over the emergency generator to keep noise levels suitable for a residential neighborhood.

8. Land and Shoreline Use Find help answering land and shoreline use questions

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The Water System Plan covers the City of White Salmon's water service area. Current uses within the City generally include residential and commercial use and uses outside of the City generally include residential and agricultural use, with some industrial use also occurring along the Columbia River.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

The Water System Plan itself does not affect working farmlands or working forest lands. Depending on the location, construction of a new reservoir tank could take resource land and convert it to non-farm or non-forest use. The anticipated area impacted is less than 1.5 acres.

1. Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?

There is a concern with the operation of a reservoir tank near a working farm or forest land, especially as it relates to excessive dust and pesticide drift from the resource land to the reservoir tank. Since the reservoir tank stores potable water and is vented to the atmosphere, there would be concerns of farm or forest operations in the immediate vicinity of the reservoir tank. Such concerns would need to be considered during the selection of the reservoir tank site and design of the reservoir tank.

c. Describe any structures on the site.

Existing structures in the proposed project area include numerous residences, outbuildings, commercial buildings, as well as buildings used for agricultural processing and storage, municipal reservoirs, pump stations and associated buildings.

Structures that may be constructed as part of capital improvement projects for the water system include pump buildings and reservoir tanks.

d. Will any structures be demolished? If so, what?

The existing Spring Street Reservoir, a concrete structure built in 1939, is at the end of its service life and needs to be replaced with a new, larger reservoir tank. The existing Spring Street Reservoir will need to be demolished and abandoned in place for safety concerns. For the rest of the proposed water system improvements, it is unknown at this time if any structures will require demolition.

e. What is the current zoning classification of the site?

There are 14 different zoning classifications within the City's water service area:

City of White Salmon: Single-family Large Lot Residential District (RL), Single family residential (R1), medium density residential (R2), multi-family residential (R3), mobile/manufactured home residential park, local commercial district (C-1), public use overlay (PU), general commercial district (C), and riverfrontage district (RD).

Klickitat County: Rural residential (RR), suburban residential (SR), and resource land district (RL).

Skamania County: Rural II (R2).

f. What is the current comprehensive plan designation of the site?

See Answer 8e.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Not applicable.

i. Approximately how many people would reside or work in the completed project?

The projected population and unincorporated area associated with the City of White Salmon's water system at the end of the Water System Plan time period (2041) is 6,040. If the City of Bingen's population is added, the total service area population would be 6,102.

j. Approximately how many people would the completed project displace?

The Water System Plan and its capital improvement projects would not displace any people.

k. Proposed measures to avoid or reduce displacement impacts, if any.

Not applicable.

Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

The Water System Plan will be incorporated into the City's comprehensive plan, which determines specific water, sewer, transportation, parks, schools, fire and police, and other City services to ensure it is compatible with existing and projected land uses.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any.

Depending on the location, construction of a new reservoir tank could take resource land and convert it to non-farm or non-forest use. If resource land is selected for location of the reservoir, appropriate permits will be obtained, and applicable mitigation will be completed.

9. Housing Find help answering housing questions

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

The Water System Plan does not provide any housing units but does provide plans to serve the expected growth in housing. The number of housing units will increase as a result of the City's growth over the planning period of the Water System Plan.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

No housing would be eliminated or completion of any of the planned projects suspended because of the Water System Plan.

c. Proposed measures to reduce or control housing impacts, if any.

Not applicable.

10. Aesthetics Find help answering aesthetics questions

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The Water System Plan proposes the construction of new pump station buildings and a new reservoir tank. The principle exterior building material for the pump station has not been determined and would be decided during design. The final height depends on size and the final design of the pump station buildings. The reservoir tank materials and height have not been decided upon at this time but would be reviewed.

b. What views in the immediate vicinity would be altered or obstructed?

No views would be altered or obstructed because of the completion of the Water System Plan. Alteration or obstruction of views in the immediate vicinity of the proposed projects would need to be assessed and addressed during the design of the proposed improvements.

c. Proposed measures to reduce or control aesthetic impacts, if any.

None at this time.

11. Light and Glare Find help answering light and glare questions

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The Water System Plan and the majority of the associated projects will not produce any light or glare. Depending on the materials used to build the reservoir tank, some glare could be produced from the project.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

Depending on the material used for the reservoir tank, glare may interfere with views.

c. What existing off-site sources of light or glare may affect your proposal?

None identified.

d. Proposed measures to reduce or control light and glare impacts, if any.

The possible impact of glare would be evaluated during the design of the reservoir tank. If glare is identified as an issue, the material for the reservoir tank may be changed or mitigation steps taken to reduce potential glare with the selected reservoir tank material.

12. Recreation Find help answering recreation questions

a. What designated and informal recreational opportunities are in the immediate vicinity?

The City has various parks and recreational areas within the water service area that the Water System Plan covers. Recreational opportunities in the immediate vicinity include hiking, cycling, angling, and aquatic recreation such as canoeing, kayaking, and rafting on the White Salmon River. The proposed project area is adjacent to the designated Wild and Scenic portion of the White Salmon River, which spans from Gilmer Creek upstream to Buck Creek downstream. The proposed project area is also adjacent to the Columbia Gorge National Scenic Area which spans from the site of the former Condit Dam (at river mile 3.3 of the White Salmon River) down to the confluence with the Columbia River. No impacts are anticipated to recreational opportunities in the immediate vicinity, and no impacts are anticipated to the Wild and Scenic portion of the White Salmon River or to the Columbia Gorge National Scenic Area. Construction activities will comply with all regulations pertaining to the designated scenic areas in the vicinity of the proposed project.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No, the proposed project will not displace any recreational use.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.

Not applicable.

13. Historic and Cultural Preservation Find help answering historic and cultural preservation questions

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

Two archaeological sites are located within or directly adjacent to the project area. The first (45SA641) consists of historic bridge log piling remnants, it has been determined non-eligible for inclusion in the NHRP (McLemore 2020). The second archaeological is classified as a precontact lithic scatter. The site was recorded in 2001 by information provided by an oral interview and has been determined potentially eligible for inclusion on the NHRP (Churchill 2001). Three NHRP eligible historic period-built resources are located within the project area (727069, 676701, and 115632). All three are classified as historic transmission lines; The Knight-Ostrander No. 1 Transmission Line (727069), the McNary-Ross No. 1 345 kV Transmission Line (676701), and the North Bonneville-Midway No. 1 240kV Transmission Line (115632) (Waldroop 2022, Blaser at al. 2014, and Home and O' Donnchadha 2017). However, these three resources are located aerially above the proposed project area, resulting in no effect.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

The White Salmon River and surrounding areas overlap the traditional territory of Chinookan and Klikitat groups. The Wasco, Wishram, and Cascades represent the majority of Chinookan groups in the area, speaking a dialect of Upper Chinook, *Kiksht* (French and French 1998). Sahaptin-speakers, specifically the Yakima and Klikitat, occupied this area with the Chinookan peoples. The traditional Klikitat territory, which includes the White Salmon River, was a popular area for large gatherings and villages, with at least 17 villages and camps in the vicinity (Ray 1936; Schuster 1998).

Settlement of the area by non-native peoples began around 1852 when Erastus S. Joslyn established White Salmon with the city being incorporated in 1907. The city and surrounding area became popular for the fishing industry and for land ideal for orchards consisting of wheat, oats, barley, and fruit (Lang 2021).

According to the DAHP Statewide Predictive Model, the project is situated in an area with moderate risk to very high risk for encountering cultural resources, based on the low slope of the area and the location of the project area in the vicinity of the Columbia and White Salmon River.

- According to the WISAARD database, 10 previously conducted cultural resource surveys
 occurred within or directly adjacent to the project area. Only two of these surveys have yielded
 new discoveries. Only one of which intersects with the project area.
 - The survey (NADB No. 1692244) was conducted by Central Washington Anthropological Survey (CWAS) originally in 2011 for the proposed removal of Conduit Hydroelectric Project. The second survey was done following the inadvertent discovery of cultural materials in 2015 by season high water volume along wearer bank of the White Salmon River. One of these resources is located intersecting the project area (45SA641). The resource is recorded as historic bridge remnants and located under the current location of the Northwestern Lake Bridge. The original bridge was built in 1930 and is considered to be potentially eligible for inclusion on the NHRP (Pitts 2017).

The survey (NADB No. 1680108) was conducted by Archaeological Investigations Northwest, Inc. (AINW) over several sessions in 2008 for the proposed addition of a natural gas pipeline from Southern Washington, a route from Plymouth to Washougal. 103 cultural resources were identified in the proposed corridor. None of these cultural resources are located intersecting the project area (Lloyd-Jones et al. 2010).

A GLO cadastral survey of the Washington side of Township 3 North, Range 10, East shows the project area intersecting with property owned by A.H. Jewett (GLO 1876). Additionally, the Township 3 North, Range 11, East cadastral survey shows a well-developed road traveling through the project area (GLO 1874). The road is labeled as the "Road from Columbia River to Camas Prairie" On the adjacent GLO map (GLO 1876). GLO cadastral survey of Township 4 North, Range 10, East in 1913 shows no development along the project area. Buck Creek is seen following a similar path to the current project area (GLO 1913).

A 1913 Ogle & Co. map of Township 3 North, Range 10 East within Klickitat County indicates that the current project area is included in the City of White Salmon's city limits and is included in a well-developed road. It eventually intersects the "Fruit Home Colony" in Section 2 of Township 3 North, Range 10 East. The map of Township 3 North, Range 11 East shows the locations of the project area are adjacent to the Spokane, Portland, Seattle Railroad. Maps illustrating Township 4 North, Range 10 East show only a portion of the project area as surveyed. From what is available, the project area is seen following the relative flow of Buck Creek (Ogle 1913).

A 1934 Metsker map of Township 3 North, Range 10 East significant development to the APE and the surrounding area. In Section 2 of Township 3 North, Range 10 East, the project area is seen intersecting a bridge, that is presently in ruin and recorded as site number, 45SA641. The map of Township 3 North, Range 11 East shows significant development of the area surrounding the APE. Maps illustrating Township 4 North, Range 10 East, show little development, and the project area still follows along Buck Creek (Metsker 1934).

According to USGS topographic maps of the area from 1953 to present, minimal changes have occurred in the project area. In the earliest map from 1953, a portion of project area is observed within the city limits of White Salmon. Additionally, Buck Creek, which was previously mentioned, is still seen running along the upper project area. (USGS 1953).

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

A search of the WISAARD database was completed by Sophia Bush, AP, on August 8, 2023, to determine the presence of previously recorded historic properties or archaeological sites within or near the project vicinity as well as to determine the potential for cultural resources or historic properties in or near the project area. A variety of historical maps were analyzed for this project area including General Land Office survey maps, USGS topographic maps, and historic-period aerials.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

In the event of an unanticipated discovery of cultural resources, the property owner and construction contractor, as well as any subsequent tenant or owner, will be governed by the statutory provisions protecting cultural resources in Chapter 27.53 Revised Code of Washington.

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1953 Topographic Map: The Dalles, Oregon 1:125000-scale.

Ogle, George

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Pitts, Michael

2017 Summary Report: Inadvertent Discovery of Cultural Materials on the White Salmon River. On file at the DAHP, Olympia, Washington (NADB No. 1692244).

14. Transportation Find help with answering transportation questions

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Capital improvement projects outlined in the Water System Plan would be accessed by various streets within the City of White Salmon, Klickitat County, and Skamania County.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Public transportation opportunities within the city of White Salmon and its Urban Exempt Area are limited but have been expanded over the years. Mount Adams Transportation (a service of Klickitat County) provides fixed and scheduled (dial-a-ride) services within Klickitat County and connects to the Columbia Area Transit system on the Oregon side of the Columbia River. The nearest Greyhound Bus Terminal is in Hood River.

c. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

Several of the improvements in the Water System Plan will require surface restoration of existing public and possibly some private roads and streets due after the improvements are installed.

d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No, the proposed project is not anticipated to use or affect water, rail, or air transportation.

e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

The Water System Plan will not generate vehicular trips. Of the proposed improvements, the construction of booster pump stations or reservoir tanks would result in the City Public Works staff visiting the site on average of once per week.

f. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

The Water System Plan itself will not interfere with, affect, or be affected by the movement of agricultural and forest products on roads and streets in the City's water service area. Several of the proposed water system improvements will require partial closure of roads which may last up to 8 hours. In some cases, full closure for a day or weeks may be needed. For such closures, approval of the road governing authority would be obtained, and additional traffic control measures would be implemented (including detour routes) for public convenience and safety.

g. Proposed measures to reduce or control transportation impacts, if any.

Proposed measures to reduce or control transportation impacts for the proposed construction improvements in the Water System Plan include use accepted traffic control plans and practices (including limiting the time of closures), possibly having the construction improvement work be performed at night, providing alternate or detour routes, and communication to the public of possible traffic delays.

15. Public Services Find help answering public service questions

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

The Water System Plan would not create an increased need for public services. The Water System Plan is a planning tool to provide a public service to meet growth within the City of White Salmon.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Not applicable.

16. Utilities Find help answering utilities questions

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other: fiber optic lines.
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The Water System Plan would not require any utilities to be completed. Several of the proposed capital improvement projects in the plan would require electricity, water service, natural gas (some improvements), and fiber optic lines (some improvements).

C. Signature Find help about who should sign

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

X David Jerke

Type name of signee: David Jepsen, P. E.

Position and agency/organization: Senior Engineer, Anderson Perry & Associates , Inc.; consultant for the City of White Salmon

Date submitted: 9/18/2023

D. Supplemental sheet for nonproject actions Find help for the nonproject actions worksheet

IT IS NOT REQUIRED to use this section for project actions.

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Discharge of water may occur from the overflow from the reservoir tank in cases when the telemetry control system malfunctions. The construction of new booster pump stations and any associated emergency generators may create localized increase in noise adjacent to the site when the pumps or emergency generator are in operation.

Proposed measures to avoid or reduce such increases are:

1) to control the overflow from reservoir tanks, the City's supervisory control and data acquisition (SCADA) system would include alarms to alert City staff of high-water level in the reservoir tank, 2) the noise from the pump stations and emergency generator will be mitigated by installing the pumps in a building or structure with noise mitigation measure and installing a noise dampening hood over the emergency generator to keep noise levels suitable for a residential neighborhood.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

The proposed improvements should have minimal, if any, affect on the area's plants, animals, fish, or marine life. Most of the proposed improvements would be underneath existing gravel and asphalt road structures. Depending on the location of the new reservoir tank, some undeveloped land may be used for the new tank site.

• Proposed measures to protect or conserve plants, animals, fish, or marine life are:

The land to be developed would be reviewed and evaluated to determine if any sensitive or endangered species would be present and affected by the proposed improvement. Appropriate mitigation measures would be evaluated and implemented to protect or conserve any sensitive or endangered species.

3. How would the proposal be likely to deplete energy or natural resources?

Some of the proposed improvements (e.g., pump stations) would increase energy usage by the City's water system.

Proposed measures to protect or conserve energy and natural resources are:

The pump stations installed in buildings would be constructed in conformance with the Building Code and the pumps would be selected with motor and pump efficiency appropriate for the installation.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection, such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

The proposed improvements may impact historic and cultural areas.

Proposed measures to protect such resources or to avoid or reduce impacts are:

Historic and cultural areas would be evaluated during the design of the proposed improvements. An Inadvertent Discovery Plan would be compiled and utilized during the construction of the proposed improvements to address the inadvertent finding of a cultural resource during construction.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

The Water System Plan will not affect land and shoreline use. The proposed water system improvements would improve water service which may allow additional lands within the City's water service to be developed.

• Proposed measures to avoid or reduce shoreline and land use impacts are:

The City's existing code and development standards are in place to allow suitable shoreline and land use.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

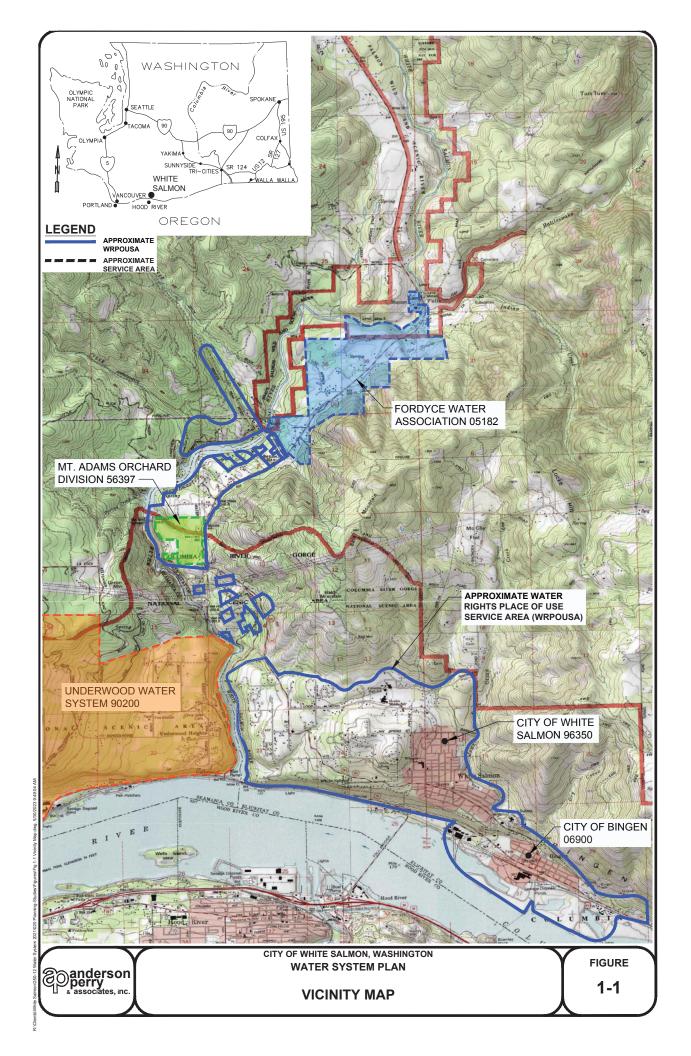
The Water System Plan will not increase the demands on transportation or public services and utilities. Some of the proposed improvements would increase electrical usage.

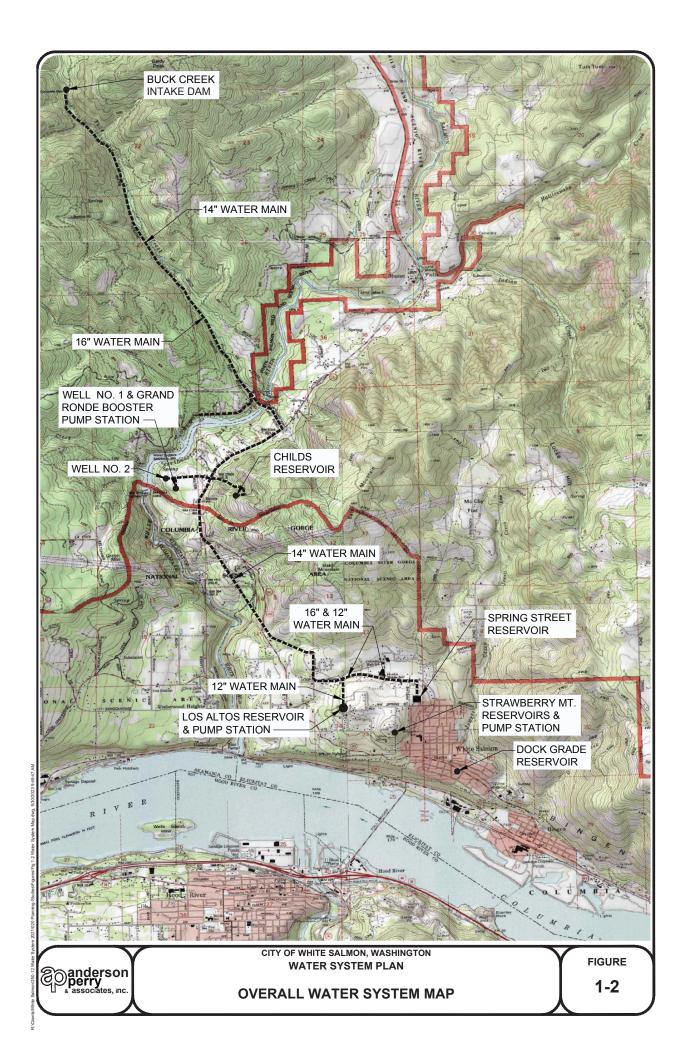
Proposed measures to reduce or respond to such demand(s) are:

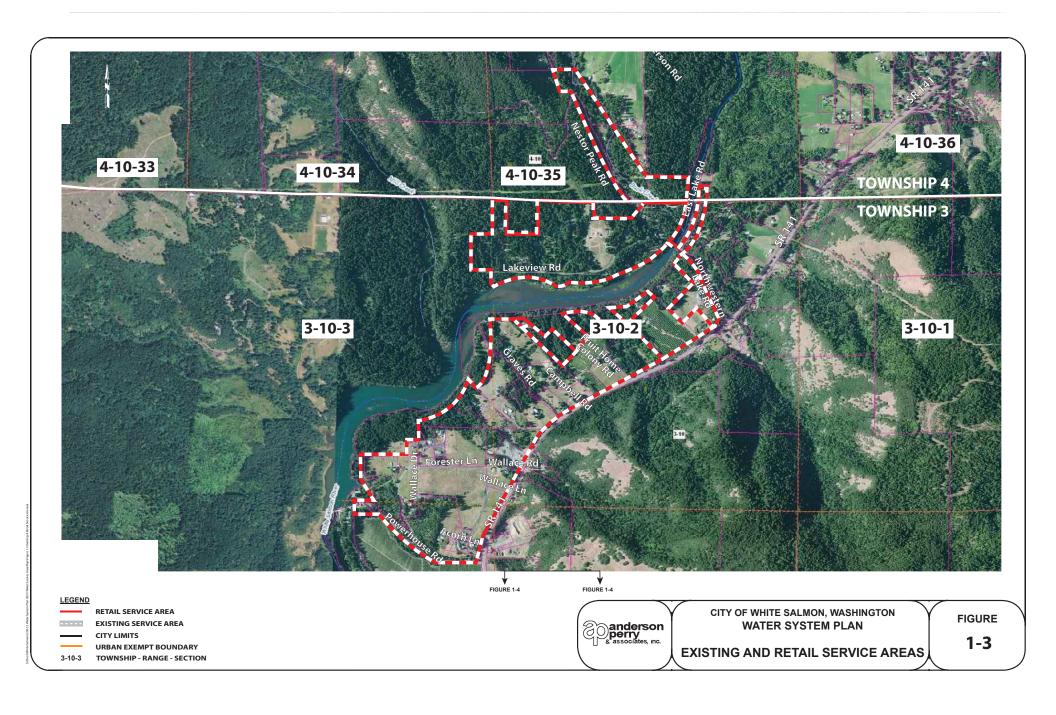
See response to Supplemental Question 3.

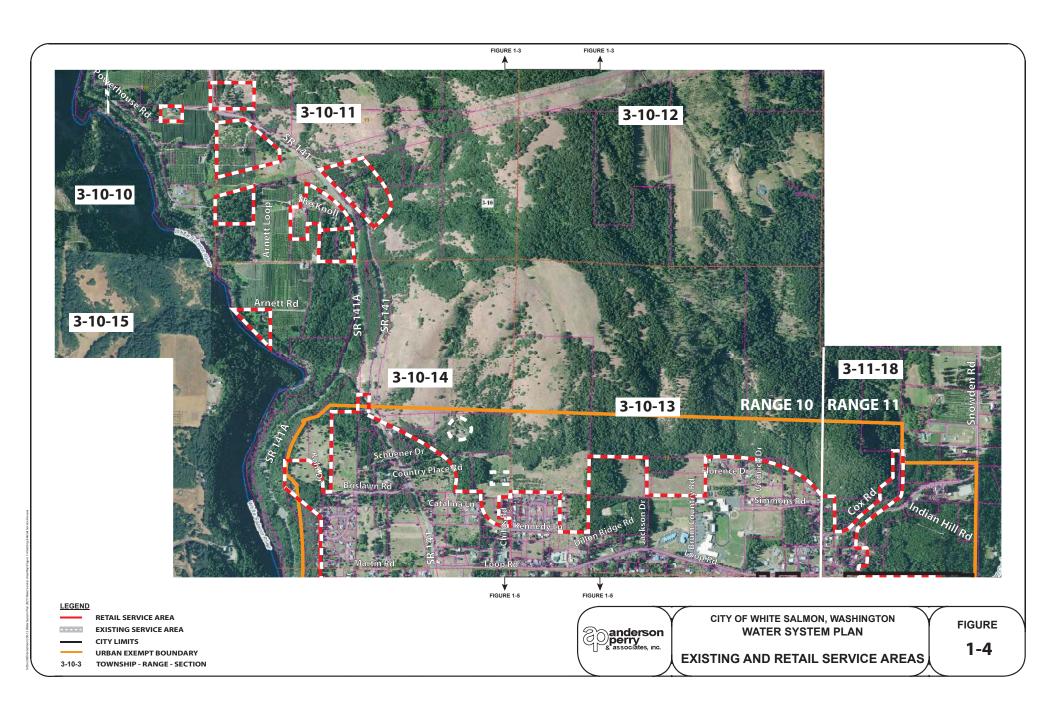
7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

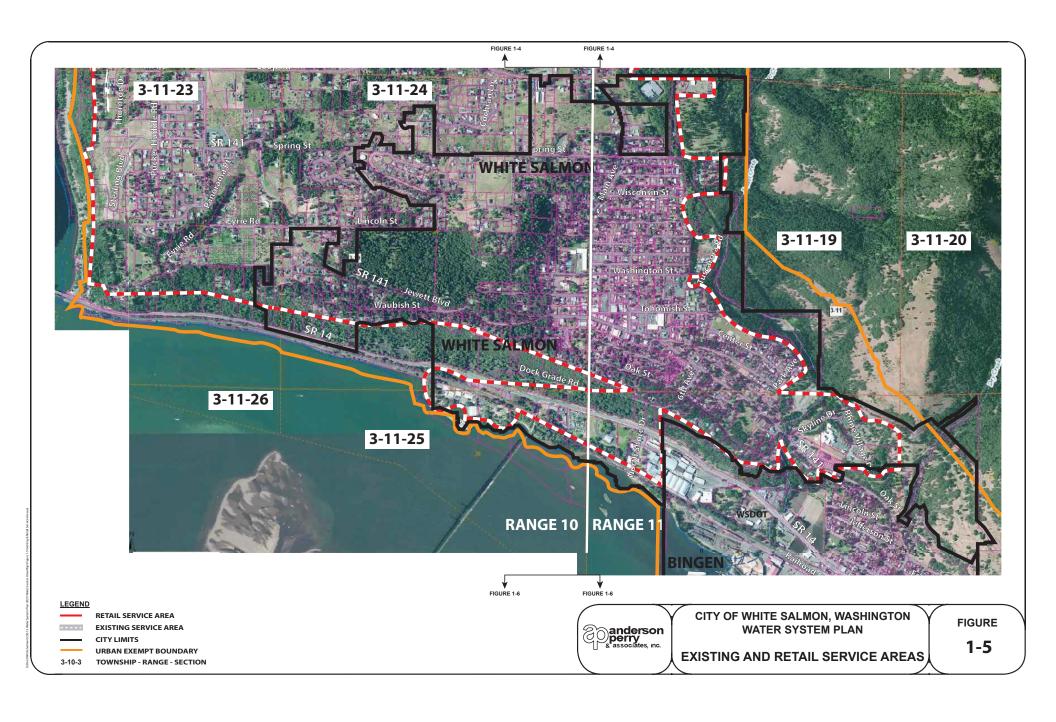
The proposed Water System Plan should not conflict with local, state, or federal laws or requirements for the protection of the environment.

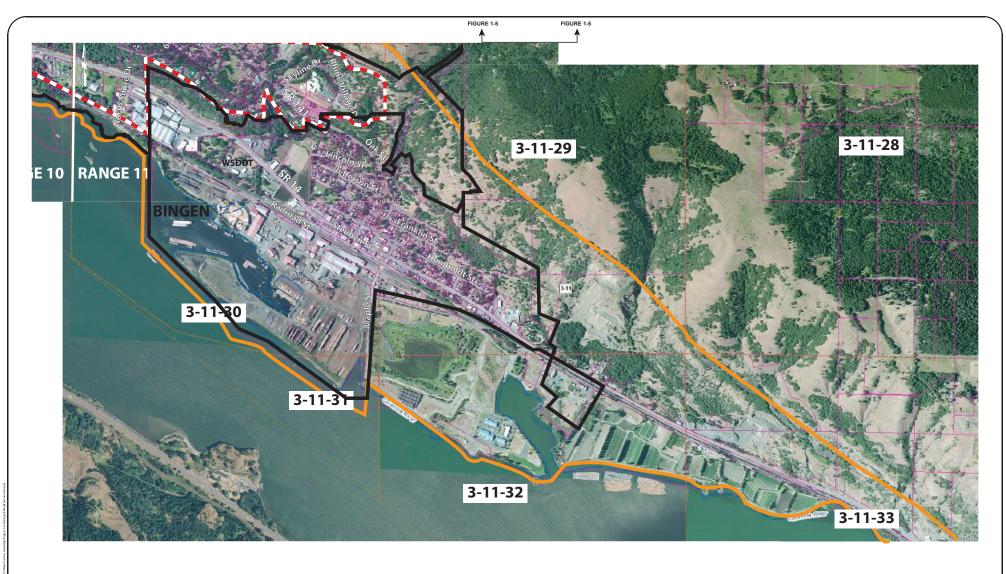














RETAIL SERVICE AREA
EXISTING SERVICE AREA

CITY LIMITS

URBAN EXEMPT BOUNDARY

3-10-3 TOWNSHIP - RANGE - SECTION

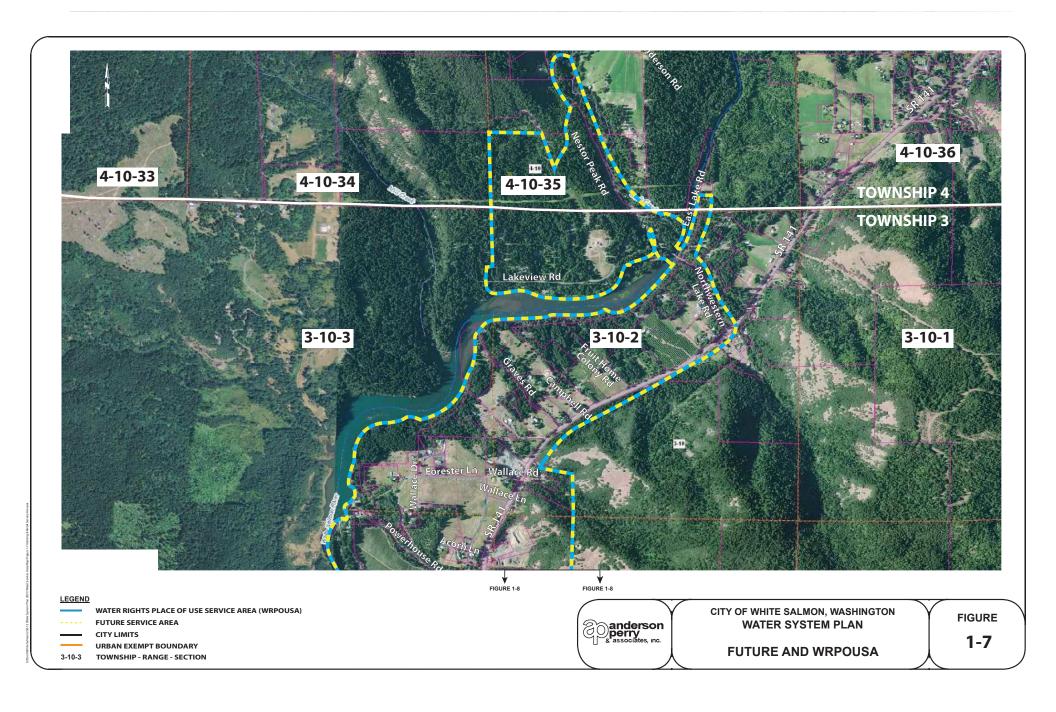


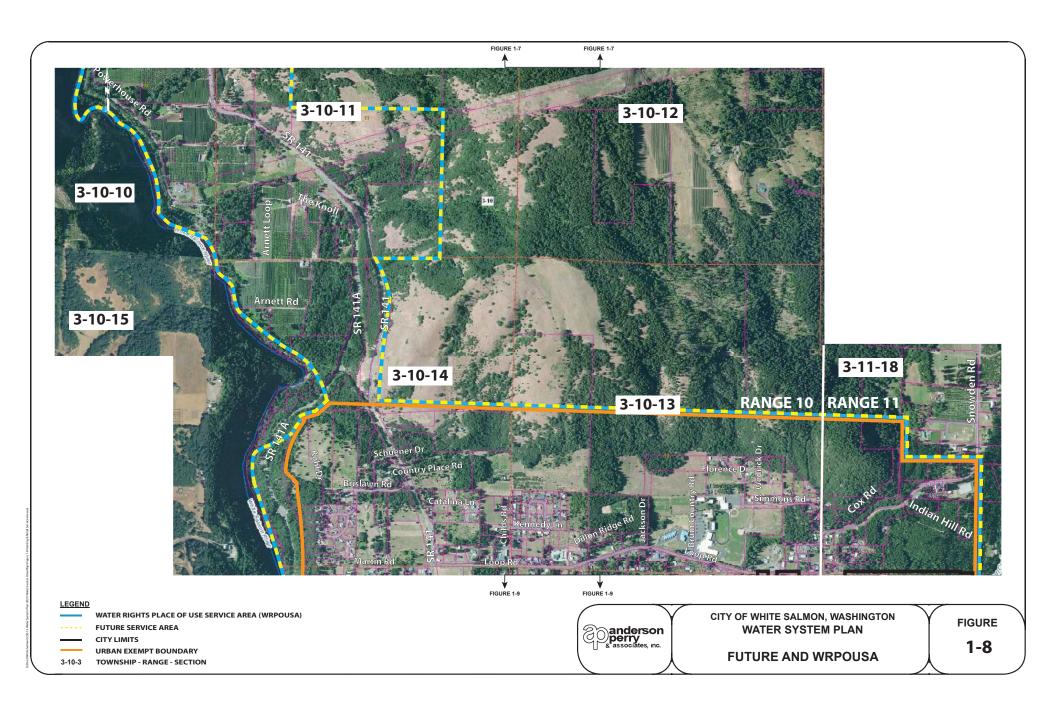
CITY OF WHITE SALMON, WASHINGTON WATER SYSTEM PLAN

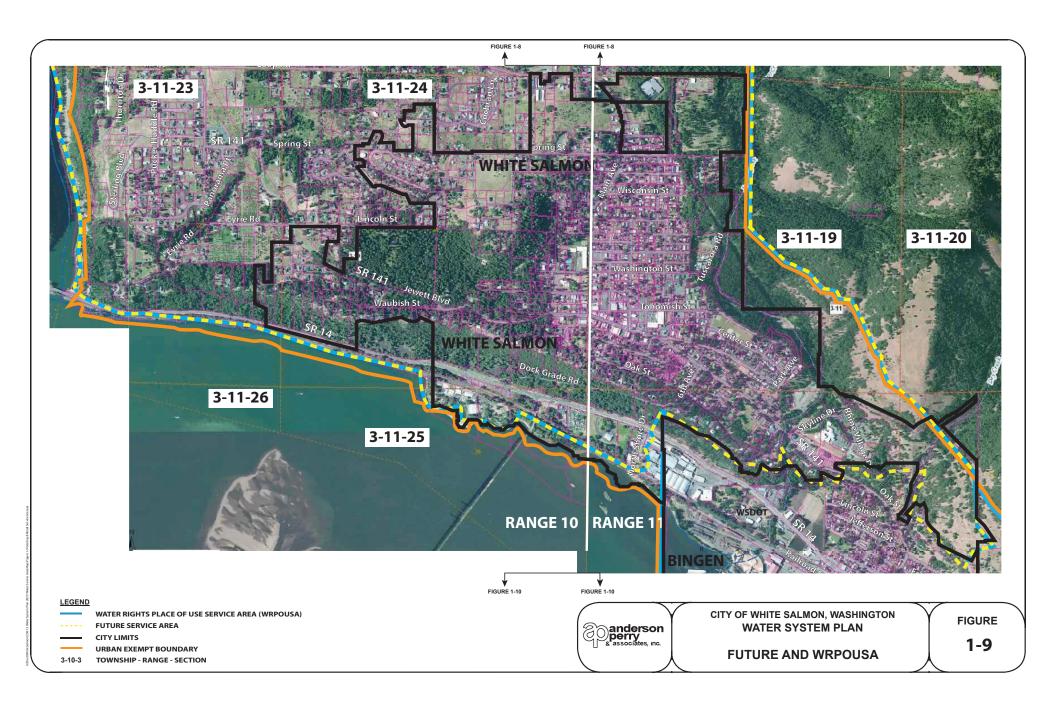
EXISTING AND RETAIL SERVICE AREAS

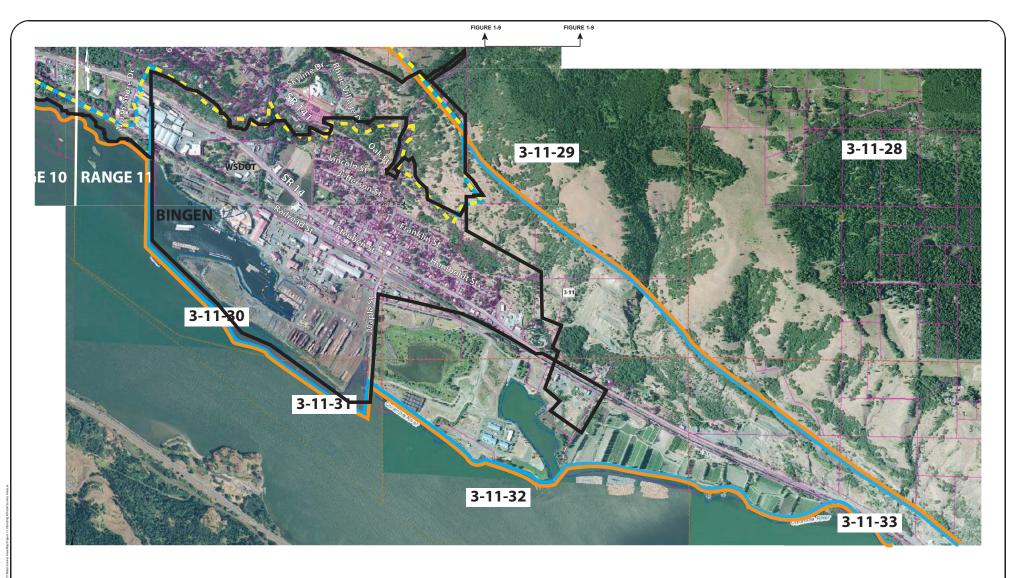
FIGURE

1-6









LEGEND

WATER RIGHTS PLACE OF USE SERVICE AREA (WRPOUSA)

FUTURE SERVICE AREA

CITY LIMITS

URBAN EXEMPT BOUNDARY

3-10-3 TOWNSHIP - RANGE - SECTION



CITY OF WHITE SALMON, WASHINGTON WATER SYSTEM PLAN

FUTURE AND WRPOUSA

FIGURE

1-10