Appendix U
SEPA Checklist

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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: [help]

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). 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 [help]

1. Name of proposed project, if applicable: [help]
   Sammamish Plateau Water and Sewer District 2018 Water Comprehensive Plan

2. Name of applicant: [help]
   Sammamish Plateau Water and Sewer District
   Administration Department

3. Address and phone number of applicant and contact person: [help]

Jay Regenstrief, P.E., Planning Engineer
Sammamish Plateau Water and Sewer District
1510 228th Avenue SE
Sammamish, WA 98075
425-392-6256

4. Date checklist prepared: [help]

December 2018

5. Agency requesting checklist: [help]

Washington State Department of Health (DOH)

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

The project covers a 20 year planning to meet the District's present and future water supply and infrastructure needs.

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

No. The plan will be implemented over the course of the next 20 years, with the first update to identify any needed amendments in ten years. Any amendments to this plan will be reviewed under separate SEPA processes.

Specific actions described in the plan will be reviewed under separate project and site specific SEPA processes as the actions are proposed for specific design and implementation. This SEPA review for the Water Comprehensive Plan is a "non-project action."

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

Environmental work has been associated with the following plans, which are considered in development of the Water Comprehensive Plan.

King County Comprehensive Plan (2016)
East King County Coordinated Water System Plan (1989) and Update (1996)
East King County Groundwater Management Plan (1998)
Redmond-Bear Creek Valley Groundwater Management Plan (1999)
Issaquah Creek Valley Groundwater Management Plan (1999)
Lower Issaquah Valley Wellhead Protection Plan (1993-1995)
Wellhead Protection Program for Plateau and Cascade View Wells (1998)
City of Issaquah Water System Plan Update (2013)
Union Hill Water Association Water Comprehensive Plan (2015)
Northeast Sammamish Sewer & Water District Water Comprehensive Plan (2010)
City of Issaquah Comprehensive Plan (2017)
City of Sammamish Comprehensive Plan (2015)
Cascade Water Alliance Transmission and Supply Plan (2012)
Ames Lake Water Association Water Comprehensive Plan (2008, Amended 2010)
Fall City Water District Water Comprehensive Plan (2016)

Hydrogeologic Assessment and Update to Lower Issaquah Valley Aquifer Production Wells 7, 8 and 9 Wellhead Protection Areas (2017)
Sammamish Plateau Water: Monitoring and Response Plan for Perflourinated Compounds (2017)

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. [help]

No.

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

The Water Comprehensive Plan must be adopted by the District Board of Commissioners, approved by the City of Issaquah and City of Sammamish for consistency with their comprehensive plans, land use plans and development regulations, and approved by King County and the Washington State Department of Health.

11. Give 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.) [help]

The Sammamish Plateau Water and Sewer District (District), governed by a five-person Board of Commissioners, has been supplying drinking water to its customers on the Sammamish Plateau for more than 70 years. The District's water service area is composed of two distinct areas, designated the Plateau Zone and the Cascade View Zone. The system includes a total of 12 wells, two connections to Cascade's regional supply, eight storage tanks, and more than 296 miles of transmission and distribution pipelines, and currently serves more than 60,000 people.

The District has prepared this Water Comprehensive Plan (Plan) to identify projects and improvements to implement over the next 20 years to meet its present and future water supply and infrastructure needs. In order to support the projected population growth within the District's service area, the Plan identifies approaches to manage and provide water supply, comply with complex federal and state regulations, upgrade existing or construct new infrastructure, and protect existing sources of water supply.

The King County Comprehensive Plan (2016), City of Issaquah Comprehensive Plan (2017), and City of Sammamish Comprehensive Plan (2015) contain the most current planning information available for the District's service area and provide the planning information used as the basis for developing this Plan.

Most of the area within the District boundaries is designated as being within an Urban Growth Area (UGA) under the State Growth Management Act (GMA). As demonstrated by the District's water supply history, planned population growth is occurring and will continue to occur in this area. The King County Comprehensive Plan has directed that the planned growth in the UGA must be served by water supply systems. Projected population estimates were obtained from the Puget Sound Regional Council. In addition, District records of existing

customers and records of proposed developments were combined with geographic information system (GIS) property information to project growth over the next 20 years, through 2037. Details as to how population was projected for the Plateau Zone and Cascade View Zone are described in the Plan.

The District plans their water needs on the basis of equivalent residential units (ERUs) – the amount of water that has historically been required by a single family residence. The following table summarizes current and projected future population and ERUs to be served by the District.

Year	Population	ERUs
2018	61,014	23,514
2027	61,590	26,384
2037	61,417	26,835

The Plan includes a Capital Improvement Program (CIP) that contains a combination of several project components to upgrade existing facilities or construct new facilities. Included in the ten-year CIP are distribution projects (new distribution and transmission main upgrades and replacements) and ongoing annual renewal and replacement programs.

This Plan is a SEPA "non-project action," in that no specific project identified in the plan will be implemented or constructed without appropriate project and site-specific SEPA review. This SEPA checklist is intended to review the entire Plan conceptually, with an understanding that the individual project components identified in the Plan will be further defined in future designs at a level of detail appropriate to undergo separate project and site-specific SEPA review.

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. [help]

All components of the Plan are located within the District's service area, which is on the Sammamish Plateau and the eastern portion of Union Hill, as shown in figures in the Plan (specifically, see Figure 1-1, attached). The District is bounded by Lake Sammamish on the west and the Snoqualmie Valley on the east, and approximately NE 100th Street to the north, and I-90 to the south. The project area is located within Sections 1-17, 21-23, 27, and 28 of Township 24N, Range 6E; Sections 5-8 and 18 of Township 24N, Range 7E; Sections 1, 2, 11-14, 22-29, and 31-36 of Township 25N, Range 6E; and Section 30 and 31 of Township 25N, Range 7E.

B. ENVIRONMENTAL ELEMENTS [help]

1. Earth [help]

a. General description of the site: [help]

The Sammamish Plateau contains gently rolling hills ranging in elevation from 350 to 620 feet, with the southern part of the District sloping down toward the Issaquah Valley at an elevation of 30 to 75 feet. Future project and site-specific SEPA review will identify the topography of the site for each specific project.

(circle one): Flat, **rolling, hilly, steep slopes**, mountainous, other _____

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

The project components will be designed to avoid steep slopes. Slope percent extents will be defined for each future project and are site-specific.

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. [help]

Soil associations within the project area consist of Alderwood, Everett, Puget- Earlmont-Snohomish, and Alderwood-Kitsap-Indianola associations.

Alderwood soils are moderately well drained, undulating to hilly soils that have dense, very slowly permeable glacial till at a depth of 20 to 40 inches and located on uplands and terraces.

Everett soils are somewhat excessively drained, gravelly, gently undulating soils underlain by sand and gravel located on terraces.

Puget-Earlmont-Snohomish soils are poorly drained and somewhat poorly drained, nearly level soils that have layers of peat within a few feet of the surface located in major stream valleys.

Alderwood-Kitsap-Indianola soils are moderately well drained, nearly level to steep slope soils that have very slowly permeable glacial till or glacial lake deposits at a depth of 16 to 40 inches, and somewhat excessively drained, rolling, deep sandy soils located on uplands and terraces.

Future project and site-specific SEPA review will identify the specific soils located at each project site.

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

Unstable soils will be identified under future project and site-specific SEPA review for each specific project site.

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. [help]

It will be necessary to excavate and backfill soils when upgrading existing facilities or

constructing new facilities as described in the Plan. Specific excavation, filling, and grading activities will be determined under future project and site-specific SEPA review for each project component.

Trench backfill will comply with the City of Sammamish, City of Issaquah, and King County requirements for imported backfill. Additional excavation would be required at pump station and storage tank sites. The source of the imported backfill would be determined by the Contractor for each project component.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [help]

Erosion and sediment transport could occur during clearing and earth moving activities associated with trench excavation and pump station construction, material export, stockpiling, material import, and backfill operations. Exposed soils during excavation are subject to erosion prior to resurfacing or revegetation. Transfer of excavated and fill material both to and from construction could leave mud and excavated material on adjacent streets. However, erosion impacts could be reduced by the implementation of erosion and sedimentation control measures. Best management practices (BMPs), per King County regulations, would be used to further reduce erosion and stormwater impacts. No long term erosion is anticipated from any project component.

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

The increase in impervious surface would result from paved access roads and from new pump stations. These facilities would account for only a small increase in impervious surface area. Specific impervious surface area will be determined under future project and site-specific SEPA review.

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

Prior to and during construction and land clearing activities, a temporary erosion and sedimentation control plan (TESC Plan) would be prepared and implemented consistent with applicable City of Sammamish/King County/City of Issaquah drainage requirements and the King County Surface Water Design Manual.

Appropriate BMPs, such as silt fences, interceptor ditches, rock check dams, temporary sediment traps, straw bale diversion, gravel outlets, and temporary sediment ponds, would be installed to help prevent and control runoff and erosion of exposed soils during construction.

If excavated soils and imported materials are temporarily stockpiled along portions of the project, stockpiled materials would be covered with plastic during wet weather to minimize erosion. Stockpiling of materials adjacent to wetland areas would be avoided.

Native plant species, not including trees, would be planted along disturbed riparian corridors following completion of construction activities to provide long term erosion control.

Roads would be cleaned regularly at the point where trucks enter paved roadways and along existing roads where work is occurring.

Future project and site-specific SEPA review will identify the specific measure to reduce or control erosion based on the specific features of each project component.

2. Air [help]

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. [help]

Depending on the season of construction, grading operations could result in temporary airborne dust particulates during dry construction. Exhaust from equipment during construction will be minimal. Periodic exercising of backup generators at the pump stations may generate small amounts of air emissions, and generators will be used during prolonged power outages. Properly operating pump stations are not anticipated to generate any noticeable odors.

Future project and site-specific SEPA review will identify any potential air emissions for each specific project component.

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

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [help]

All equipment will be fitted with required muffler systems. Dust control methods will be employed as necessary. Future project and site-specific SEPA review will identify any measures to reduce or control air emissions for each specific project component.

3. **Water** [help]

a. Surface Water:

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. [help]

A number of surface water bodies, including lakes, streams, and wetlands, are located within the District service area. Specific components of the plan will be designed to best avoid surface water bodies to the greatest extent possible, although there may be operational considerations that occasionally require work in and around surface water bodies. Future project and site-specific SEPA review will identify specific surface water bodies located on or near each specific project site.

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. [help]

Construction of project components within non-paved areas may require work within or adjacent to streams or wetlands. As individual components of the plan are designed for construction, future project and site-specific SEPA review will identify any potential impacts to streams or wetlands and appropriate mitigation measures for each specific project component.

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. [help]

Filling and dredging of surface waters or wetlands may be required for specific project components. Facilities will be designed to best avoid impacts to surface water or wetlands to the greatest extent possible. Future project and site-specific SEPA review will identify any potential impacts to surface water or wetlands and any appropriate mitigation measures.

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

The District has implemented two connections to the Regional Surface Water Supply through its membership in the Cascade Water Alliance (Cascade). Impacts associated with surface water withdrawals would be addressed under any Cascade or Seattle Public Utilities (current owner/operator of the surface water supply) SEPA review. Future project and site-specific SEPA review will identify any potential surface water withdrawals or diversions for each specific project component. Applicability will vary for each component.

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

100-year floodplains exist just south of Redmond Fall City Road and along lakes and streams located within and adjacent to the District boundaries. Flooding along some roads containing District facilities has historically occurred. Water facilities that are not located within roadways are not located within a 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. [help]

None of the components identified within the Plan are anticipated to discharge waste materials to surface waters. Future project and site-specific SEPA review will identify any potential for discharge of waste materials for each specific project.

b. Ground Water:

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 general description, purpose, and approximate quantities if known. [help]

Yes. The District's existing wells currently withdraw groundwater to provide supply up to the associated water rights. In addition, the District's aquifer storage and recovery (ASR) program involves the injection of water into groundwater aquifers for the purpose of bolstering the reliability of the source aquifers and enhancing their supply capabilities. This program is regulated and permitted by the State Department of Ecology. The approvals necessary for full implementation of this program have not been obtained.

Future project and site-specific SEPA review will describe in greater detail the withdrawal of groundwater for each specific project.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: 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. [help]

None of the project components identified in the Plan will discharge waste material into the ground. Future project and site-specific SEPA review will address any potential to discharge waste materials to the ground for each specific project.

c. Water runoff (including stormwater):

1) 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. [help]

Stormwater runoff from areas disturbed during construction of project components will be routed through erosion and sedimentation control facilities to prevent erosion and impacts to surface water bodies. Future project and site-specific SEPA review will identify specific stormwater runoff sources, quantities, and methods of collection and disposal for each specific project.

2) Could waste materials enter ground or surface waters? If so, generally describe. [help]

It is unlikely that waste materials would enter ground or surface waters from any of the project components. A small possibility exists that a small spill or release of fuel or oil from construction equipment could enter nearby streams and wetlands. Future project and site-specific SEPA review will identify any potential for waste materials entering ground or surface waters and appropriate mitigation for each specific project component.

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

Future project and site-specific SEPA review will identify specific drainage pattern modifications for each specific project.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [help]

King County *Surface Water Design Manual*. Potential mitigation measures include the following:

- Prior to and during construction and land use clearing and modification of drainage pattern activities, a temporary erosion and sedimentation control plan would be prepared and implemented consistent with the requirements of the King County *Surface Water Design Manual* and any other drainage requirements that may be instituted in the future by the newly incorporated City of Sammamish or the City of Issaquah.

- Appropriate best management practices (BMPs), such as fences, interceptor ditches, rock check dams, temporary sediment traps, straw bale diversions, gravel outlets, and temporary

sediment ponds, would be installed to help prevent and control runoff and erosion of expelled soils during construction.

- If excavated soils and imported material are temporarily stockpiled along portions of the project, stockpiled materials would be covered with plastic sheeting during wet weather to prevent erosion. Stockpiling of excavated soils adjacent to wetland or stream areas would be avoided.

Future project and site-specific SEPA review will identify specific measures to reduce or control surface, ground, and runoff water impacts for each specific project component.

4. **Plants** [help]

a. Check the types of vegetation found on the site: [help]

__x__deciduous tree: alder, maple, aspen, other
__x__evergreen tree: fir, cedar, pine, other
__x__shrubs
__x__grass
__x__pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
__x__ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
__x__water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

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

Project components will likely require some type of vegetation removal or alteration, depending upon the facility and the location. Pipelines will be located within disturbed rights-of-way to avoid alteration to vegetation to the extent possible. Future project and site-specific SEPA review will identify the types and amount of vegetation to be altered or removed for each specific project component.

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

Future project and site-specific SEPA review will request species database searches from US Fish and Wildlife Service and Washington State Department of Natural Resources, Natural Heritage Program to identify any threatened or endangered species on or near each specific project site.

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

Any measures to preserve or enhance vegetation as applicable will be identified in future project and site-specific SEPA review for each specific project.

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

Future project and site-specific SEPA review will address noxious weeds and invasive species known to be on or near the site for each specific project.

5. **Animals** [help]

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

A survey of birds and animals in the service area was not performed. Several of the birds and animals listed may exist in the service area.

Examples include:

birds: **hawk, heron, eagle, songbirds**, other:
mammals: **deer, bear**, elk, **beaver,** other:
fish: **bass, salmon, trout**, herring, shellfish, other _____

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

Future project and site-specific SEPA review will request species database searches from US Fish and Wildlife Service, National Marine Fisheries Service, and Washington State Department of Fish and Wildlife to identify any threatened or endangered species on or near each specific project site.

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

Yes, the District area is a migration route for anadromous fish and migratory fowl. Future project and site-specific SEPA review will identify any species that use the specific project sites as part of a migratory route.

d. Proposed measures to preserve or enhance wildlife, if any: [help]

Any measures to preserve or enhance wildlife, as applicable, will be identified under future project and site-specific SEPA review for each project component.

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

Future project and site-specific SEPA review will address invasive animal species known to be on or near the site for each specific project.

6. **Energy and Natural Resources** [help]

a. 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. [help]

Construction equipment used for clearing and grading activities, trench excavation and backfilling, and delivery of construction materials will use fossil fuel energy. Pump stations will use electric powered pumps with diesel-powered emergency back-up units. Telemetry systems at District water facilities also use electric energy.

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

No.

c. 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: [help]

The District considers the use of high-efficiency pumps and motors when designing and constructing new facilities.

7. **Environmental Health** [help]

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

No. There are chemicals associated with water treatment (sodium hydroxide and sodium hypochlorite) but the chemicals used are nonhazardous when handled appropriately as identified in the District's Safety Manual and are under exempt quantities.

1) Describe any known or possible contamination at the site from present or past uses. [help]

Perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) have been detected in the groundwater by the District and the City of Issaquah in wells in the Issaquah Valley Aquifer. Certain source water supplies for the District have concentrations of these contaminants well below the health advisory level. These contaminants are the subject of significant research across the United States and potential regulation under the Safe Drinking Water Act is being evaluated.

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. [help]

Northwest Pipeline operates a natural gas pipeline that traverses the District from south to north, east of 228th Ave. This pipeline includes a lateral segment to the west toward E. Lake Sammamish Parkway at 17th Ave NE. Puget Sound Energy operates a natural gas pipeline from the Northwest Pipeline west along NE Union Hill Road.

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. [help]

None are anticipated beyond those mentioned in 7.a. above.

4) Describe special emergency services that might be required. [help]

None are anticipated.

5) Proposed measures to reduce or control environmental health hazards, if any: [help]

The District has a Safety Manual and has prepared staff for workplace hazards in the following hazards: chemicals, confined space, and electrical. In addition, the District has the following documented safety measures: certifications and training; safety equipment; maintenance calibration and certifications for equipment; and numerous safety programs. The District is monitoring its supply for PFOS and PFOA and continuing to evaluate a long-range management strategy for use of the wells subject to this impact.

b. Noise [help]

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? [help]

None.

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. [help]

Noise due to construction will be short-term. Noise from pump stations will be appropriately mitigated, as necessary, to meet or exceed King County, City of Sammamish, and City of Issaquah noise ordinance requirements.

3) Proposed measures to reduce or control noise impacts, if any: [help]

Construction activity will meet federal, state, and local noise standards.

8. **Land and Shoreline Use** [help]

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. [help]

The District in general consists primarily of single-family residential land use. Current land uses of specific project sites and adjacent properties vary depending specific project components. Future project and site-specific SEPA review will identify current land use for each specific project.

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 as a result 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? [help]

There was a historical logging industry, but it was primarily gone by the mid 1900s. There was also a chicken farm industry, but there are no current working farmlands. There are also some properties with current equestrian uses. Future project and site-specific SEPA review will identify any working farm or forest lands on or around the site for each specific project.

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: [help]

None known. Future project and site-specific SEPA review will identify any working farm or forest lands on or around the site for each specific project.

c. Describe any structures on the site. [help]

Structures located throughout the District area vary depending upon specific project components. Future project and site-specific SEPA review will identify any structures on site for each specific project.

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

It is unlikely that any structures will need to be demolished. Future project and site- specific SEPA review will identify any structures to be demolished on site for each specific project.

e. What is the current zoning classification of the site? [help]

Zoning classifications throughout the District area vary depending upon specific project components. Future project and site-specific SEPA review will identify all zoning classifications on site for each specific project component.

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

Comprehensive Plan designations throughout the District area vary depending upon specific project components. Future project and site-specific SEPA review will identify all applicable comprehensive plan designations (King County, City of Sammamish, or City of Issaquah) on site for each specific project component.

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

Shoreline Master Program designations throughout the District area vary depending specific project components. Future project and site-specific SEPA review will identify all shoreline designations on site for each specific project component.

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

The District area contains a variety of critical areas. Future project and site-specific SEPA review will identify all critical areas on site for each specific project site.

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

The Plan will provide water supply for a projected population of 61,417 people within the District's water service area in 2037. While the District anticipates significant additional development in its service area, the Puget Sound Regional Council forecasts a declining household population.

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

It is unlikely that components of the Plan would result in displacements. Future project and site-specific SEPA review will identify any displacements resulting from each specific project component.

k. Proposed measures to avoid or reduce displacement impacts, if any: [help]

N/A.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [help]

The Plan is required to comply with applicable growth management plans and was developed using the King County, City of Sammamish, and City of Issaquah Comprehensive Plans. The Plan will require approval from Sammamish City Council, Issaquah City Council, King County, and the State Department of Health prior to implementation.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: [help]

Future project and site-specific SEPA review will identify any working farmlands on or around the site for each specific project.

9. **Housing** [help]

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

None.

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

None.

c. Proposed measures to reduce or control housing impacts, if any: [help]

N/A.

10. **Aesthetics** [help]

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

Height of component structures and principal exterior building materials will vary depending on the project component and the design. Above ground facilities would consist of pump stations and a future storage tank. Future project and site-specific SEPA review will identify the tallest height of any proposed structure and the principal exterior building material for each specific project.

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

The above ground components would be designed to best minimize the alteration or obstruction of views. Future project and site-specific SEPA review will identify any views that could be altered or obstructed for each specific project.

c. Proposed measures to reduce or control aesthetic impacts, if any: [help]

Future project and site-specific SEPA review will identify any proposed measures to reduce or control aesthetic impacts, if applicable, for each specific project.

11. **Light and Glare** [help]

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

Light and glare could only result from above ground components. Pump stations would be designed to minimize the potential for light and glare. Future project and site-specific SEPA review will identify any impacts from light and glare for each specific project.

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

Future project and site-specific SEPA review will identify any safety hazards resulting from light and glare for each specific project.

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

None.

d. Proposed measures to reduce or control light and glare impacts, if any: [help]

Any measures to reduce or control light and glare impacts, if applicable, will be identified under future project and site-specific SEPA review for each specific project.

12. **Recreation** [help]

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

Recreational opportunities throughout the District area vary. Project components would be designed to minimize potential impacts to recreational opportunities. Future project and site-specific SEPA review will identify any recreational opportunities in the immediate vicinity of each specific project.

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

Future project and site-specific SEPA review will identify any displaced recreational uses for each specific project.

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

Proposed measures to reduce or control impacts to recreation, as applicable, will be identified under future project and site-specific SEPA review for each specific project.

13. **Historic and cultural preservation** [help]

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 located on or near the site? If so, specifically describe. [help]

Project components will be designed to avoid impacts to historic and cultural resources to the greatest extent possible. Future project and site-specific SEPA review will identify any places or objects proposed for or listed on any preservation registers on or near the site for each specific project.

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. [help]

Future project and site-specific SEPA review will identify sites or evidence of cultural importance on or near the site for each specific project.

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. [help]

Measures to reduce or control impacts to cultural resources will be identified in future project and site-specific SEPA review for each specific project.

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. [help]

Measures to avoid, minimize or compensate for impacts to cultural resources will be identified in future project and site-specific SEPA review for each specific project.

14. **Transportation** [help]

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. [help]

Most of the underground pipeline improvements would be located within existing public roadways, as shown in figures in the Plan. Access to the existing street system for each project component will be identified in future project and site- specific SEPA review for each project.

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? [help]

The District is served by public transit; however specific transit stops would be identified under future project and site-specific SEPA review for each specific project.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [help]

Most components would not require parking spaces or eliminate parking spaces. Future project and site-

specific SEPA review will identify any parking spaces created or eliminated by each specific project.

d. 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). [help]

Most components would not require new roads or streets, or improvements to existing roads or streets. Construction of underground pipelines in public roadways would require restoring to existing conditions. Future project and site-specific SEPA review will identify new roads or streets or improvements required by each specific project.

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

It is unlikely that any project components will use water, rail, or air transportation. Future project and site-specific SEPA review will identify any parking spaces created or eliminated by each specific project.

f. 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? [help]

Any project component would require minimal vehicle trips, mostly for structure maintenance. Future project and site-specific SEPA review will identify vehicle trips per day generated by each specific project.

g. 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. [help]

No. Any project-specific impacts would be identified under future project and site-specific SEPA review for each specific project.

h. Proposed measures to reduce or control transportation impacts, if any: [help]

Any measures required to reduce or control transportation impacts would be identified under future project and site-specific SEPA review for each specific project.

15. **Public Services** [help]

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. [help]

The Plan will meet the increased need for public water supply for the District. It is not anticipated that any components of the project would result in an increased need for other public services. Future project and site-specific SEPA review will identify the potential to increase the need for public services for each specific project.

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

Any measures required to reduce or control impacts on public services would be identified under future

project and site-specific SEPA review for each specific project.

16. **Utilities** [help]

a. Circle utilities currently available at the site: [help]

Electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other cable

Future project and site-specific SEPA review will identify the specific utilities available at each specific project site.

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. [help]

The project is planning for the District to supply water to its customers over the next 20 years. Construction activities required will include clearing, grading, grubbing, trenching, and excavating. Pipelines will be constructed underground, whereas pump stations will be above ground. Specific construction activities will be identified under future project and site-specific SEPA review for each specific project component.

C. Signature [help]

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.

Signature: Rodney Langer

Name of signee Rodney Langer

Position and Agency/Organization Project Manager, CHS Engineers, LLC

Date Submitted: January 27, 2019

D. supplemental sheet for nonproject actions [help]

(**IT IS NOT NECESSARY** to use this sheet 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?

Water service alone does not cause any of the mentioned situations. Some minor temporary impacts

may occur during construction.

Proposed measures to avoid or reduce such increases are:

Proper construction practices will avoid or reduce temporary impacts.

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

Recommendations proposed in this Plan are not anticipated to affect plants, animals, fish, or marine life. Measures for protection or conservation should be considered during design.

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

Design decisions and construction procedures should follow all proper procedures and practices to minimize impacts on plants, animals, fish, and marine life.

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

Energy will be used to construct new facilities and operate equipment after facilities are constructed. Proposed measures to protect and conserve energy and natural resources are: Appropriate reviews, approvals, and permits will be obtained before planned construction projects. The Plan includes a water conservation plan identifying activities to be performed by the District. Energy-efficient equipment should be considered whenever possible.

Energy consumption will correspond with production associated with water rights and system demands to meet public water supply needs

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

Specific projects will be evaluated for opportunity, cost and benefit of implementation of conservation measures.

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?

No effects are anticipated.

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

All regulations concerning sensitive or protected areas will be followed.

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 Plan is compatible with all existing and proposed land use plans.

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

Does not apply.

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

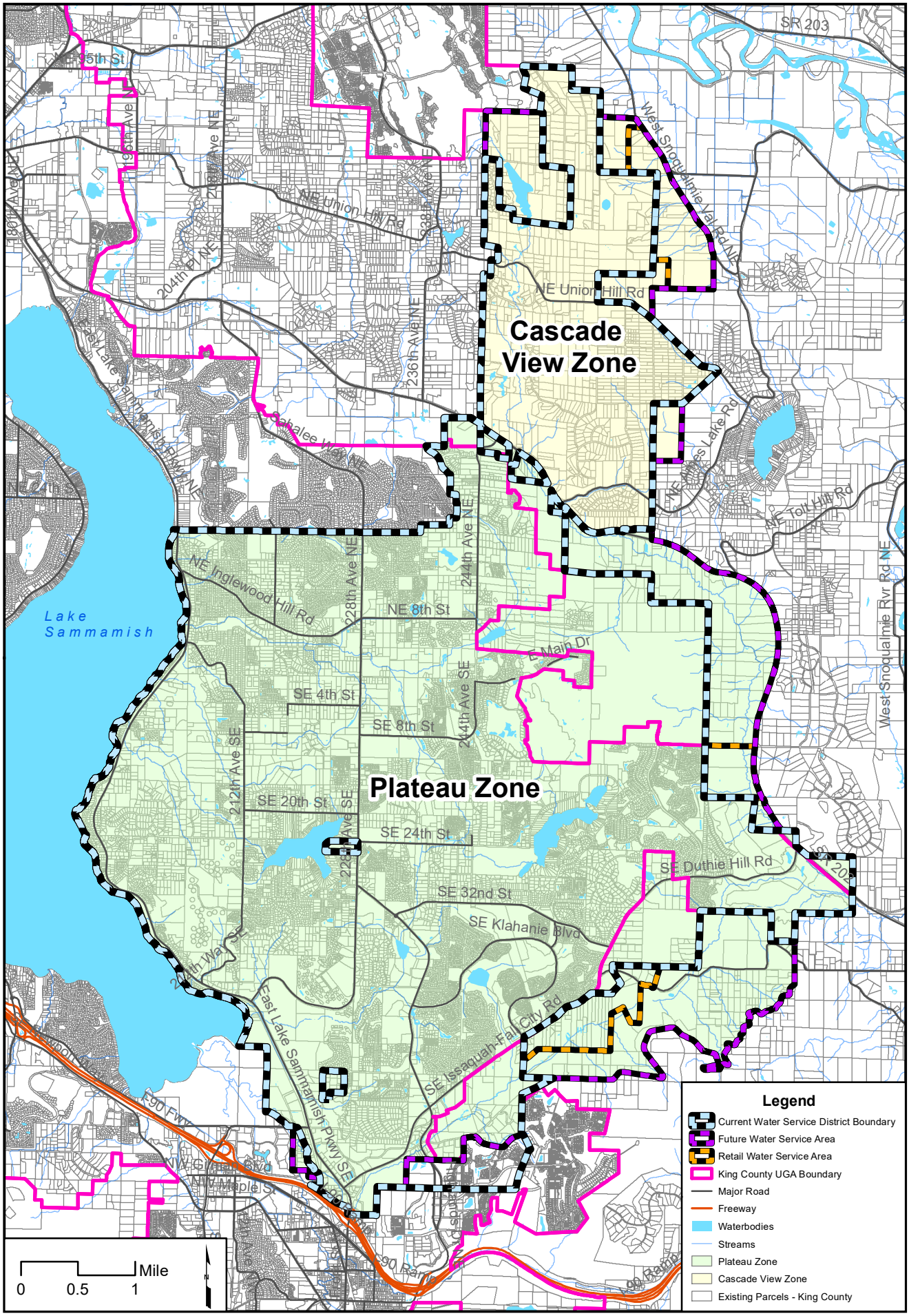
The Plan proposes to respond to a projected increase in needs for water service resulting from projected population growth in the service area. Increase in demands on public services and utilities resulting from growth will be determined by zoning, land use, and restrictions or needs. Water service in itself will not increase the demand for public services.

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

Source enhancement and transmission and distribution improvements.

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

The Plan is consistent with good management practices for water resources and does not conflict with current laws and regulations. The Plan conforms with all laws and requirements for the protection of the environment.



CHS ENGINEERS

Sammamish Plateau Water

Service Area Boundaries

FIGURE 1-1

Water Comprehensive Plan

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