

ENVIRONMENTAL CHECKLIST
Seattle-Tacoma International Airport (SEA)
Water System Plan (Limited Update)

Note: This SEPA Checklist is to review the potential environmental impacts of Port of Seattle adoption and Washington State Department of Health approval of SEA's Water System Plan (Limited Update). A separate project-specific environmental review of each recommended capital improvement selected for design and construction would be conducted in compliance with applicable regulations and policies.

A. BACKGROUND

1. Name of proposed project, if applicable:

Approval and Adoption of the SEA Water System Plan (Limited Update)

2. Name of applicant:

Port of Seattle (Port)

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

Port of Seattle
P.O. Box 68727
Seattle, WA 98168

Contact: Steve Rybolt, Senior Environmental Program Manager
Telephone/Email: (206) 787-5527, Rybolt.S@portseattle.org

4. Date checklist prepared: January 28, 2024

5. Agency requesting checklist: Port of Seattle – SEPA File Number 2025-01

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

Implementation of the Water System Plan Limited Update¹ (or Plan update) at Seattle-Tacoma International Airport (SEA) is expected to occur as follows:

- Washington State Department of Health (WDOH) approval of Plan update 2025
- SEA adoption of Plan update 2025
- Plan implementation period: 2025-2028

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

If the Plan is approved by WDOH, maintenance activities and projects at SEA would adhere to the Plan. The Port and the Federal Aviation Administration (FAA) are currently conducting an environmental review of the proposed Sustainable Airport Master Plan (SAMP) Near Term Projects. However, this Water System Plan update is required, with or without approval of the projects proposed within the SAMP.

¹ In coordination with the Washington State Department of Health (WDOH), it was determined a “full” update is not required since the previous Plan and associated documentation is still essentially current, with no material changes or significant updates needed.

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

- Port of Seattle Water System Plan (Limited Update) (2023)
- Technical Memorandum: Port of Seattle Water Conservation: Quantification of Savings from Proposed Measures (2022)
- Technical Memorandum: Port of Seattle Water Distribution System Hydraulic Surge Analysis (2014)
- Port of Seattle Seattle-Tacoma International Airport, 2008 Water System Plan (2008)

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

No applications or proposals are pending for the property that would affect the Plan update.

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

- WDOH – Water System Plan Limited Update approval
- Port of Seattle Commission – Water System Plan Limited Update adoption

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.)

Water System Plans provide the foundation for a safe, reliable, and sustainable public water system. The Port owns and operates the water system at SEA, which provides drinking water and fire protection water to the airport and associated facilities within the planning area (Figure 1). The water system at SEA is comprised of water mains, junctions, pipes, storage reservoirs, fire hydrants, and pumps.

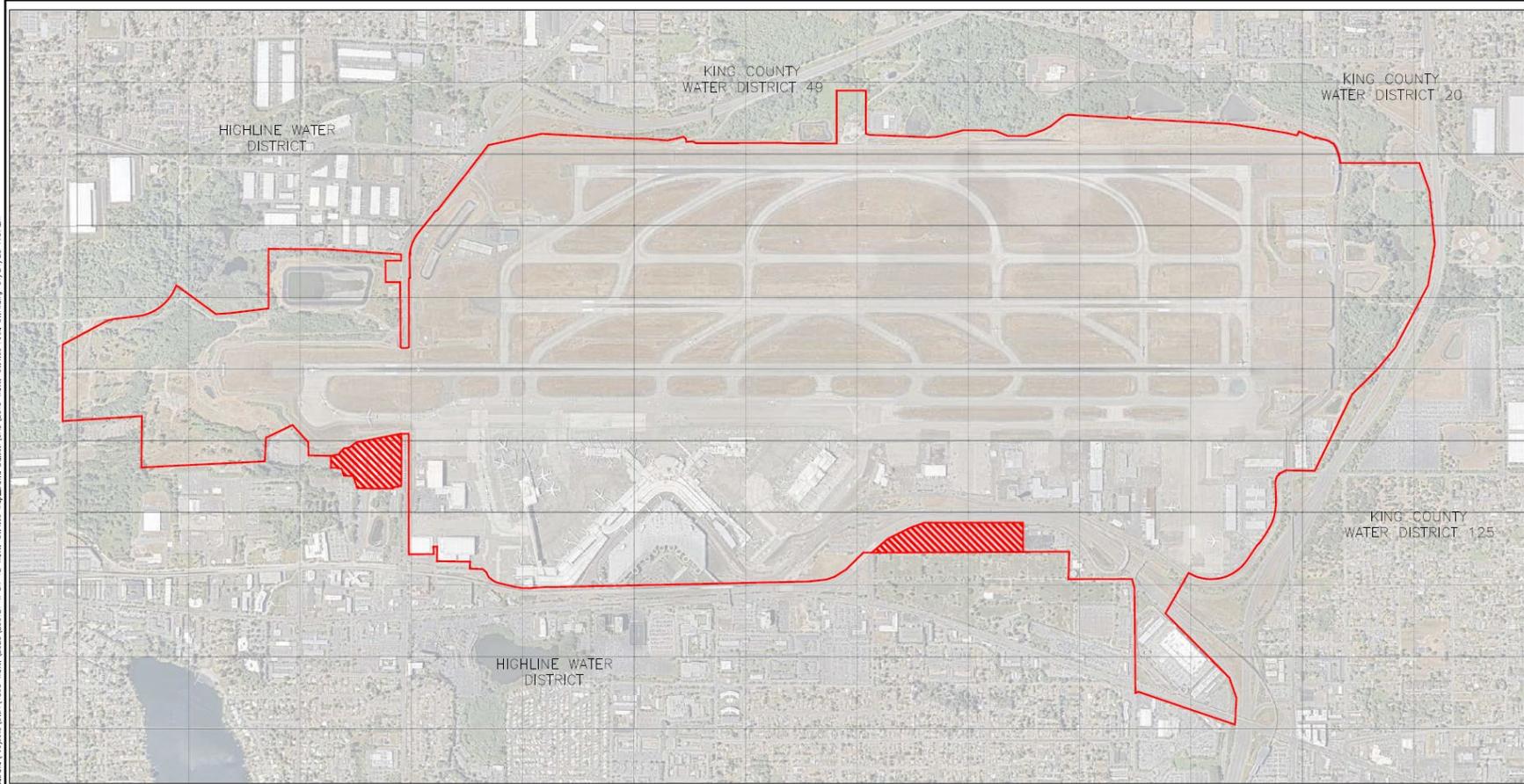
The purpose of the Plan update is to bring up-to-date SEA planning resources that guide the routine maintenance and orderly development/upgrade of SEA’s water system. In coordination with WDOH², it was determined that a full update of SEA’s 2008 Water System Plan would not be required, since a review of the Plan by the Port of Seattle (Port) indicated that the 2008 Plan is still essentially current, with no material changes or significant updates needed.

The Plan update being considered for adoption includes water demand forecasting; an assessment of water resources, conservation, and reuse practices; relevant minimum design criteria; a system review and analysis (hydraulic modeling); a review of the water system operations and maintenance program; and recommendations for capital improvement projects to provide greater reliability, redundancy, and flow capacity. There are 16 recommended projects that generally include:

- Decommissioning, replacing and/or upsizing certain pipes
- Adding surge tanks and new water lines
- Providing backup water supply via an inter-tie with Highline Water District
- Adding water storage capacity (a standby reservoir) to address forecasted storage deficit (2034)
- Diagnosing cause of reported pump issues at the Port’s storage tank during low level water conditions.

² Port/WDOH Meeting on March 16, 2022.

Figure 1. SEA Water System Planning Area



LEGEND

-  SEA WATER SERVICE BOUNDARY
-  SEA FIRE WATER SERVICE AREA & HWD DOMESTIC WATER SERVICE AREA



SCALE: 1" = 1200'

<p>PROGRAM MANAGER: PCT</p> <p>DESIGN ENGINEER:</p> <p>DRAWN BY: AWM</p> <p>SCALE: 1" = 1200'</p> <p>DATE: 1/21/2025</p> <p>CHECKED BY: PCT</p> <p>APPROVED BY: PCT</p>	 <p>Port of Seattle</p>	<p>PROJECT: SEATTLE-TACOMA INTERNATIONAL AIRPORT</p> <p>SHEET TITLE: WATER SERVICE AREA EXHIBIT</p>
		<p>PORT OF SEATTLE NO. 4593</p>
		<p>SHEET NO. 1 OF 1</p>

The Plan update also describes how SEA will meet applicable regulations and code requirements governing operation of a public water supply.³ If the Plan is approved by WDOH and adopted by the Port, the recommended capital projects may be incorporated into the Port's Capital Improvement Program to progress design and construction. A separate project-specific environmental review of capital improvements selected for design and construction would be conducted in compliance with applicable regulations and policies.

- 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 Plan update would be implemented on Port-owned property at SEA. The physical address is as follows:

17801 Pacific Highway South
SeaTac, WA 98158

Latitude: 47.448417, Longitude: -122.302099

The water system planning area is shown in Figure 1.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one):** Flat rolling, hilly, steep slopes, mountainous, other

The topography of the planning area is generally flat.

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

There are steep slopes within the planning area. The recommended capital improvement projects are unlikely to occur in these areas but would be evaluated on a project-specific basis for site hazards.

- 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.**

Underlying soil at SEA consists of pre-existing glacial till (i.e., Vashon till) and associated outwash sediments or imported sand, gravel, and pre-existing fill that was graded and compacted during original site use.

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

There are no steep slopes or other indications of unstable soils at the site, or history of soil instability.

- 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.**

Grading and or filling associated with individual recommended capital improvement projects may be required during the construction and implementation of individual projects. Such impacts would be evaluated on a project specific basis.

³ SEA must operate in accordance with specific federal and State regulations such as Federal Aviation Administration (FAA) requirements for water supply systems for aircraft fire and rescue, WDOH drinking water protection standards, and relevant fire and building codes.

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

Construction associated with recommended water system capital improvement projects would include best management practices (BMPs) for erosion control, per the Project's stormwater pollution prevention and temporary erosion and sediment control plans.

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

Adoption of the Plan update will not add any new impervious surface. The majority of recommended projects are unlikely to result in any new impervious surface. If construction of a new reservoir moves forward, the percentage of impervious surface would be determined during the design phase on a project specific basis.

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

No impacts to the earth are anticipated as a result of the Plan update. During construction of recommended capital improvements, a temporary erosion and sediment control plan (TESC 01 57 13) would be in place to prevent erosion at the site; this is a requirement of the Port's Master Specifications. If construction of a new reservoir moves forward, specific erosions control measures such as shoring would be determined during the design phase on a project specific basis.

2. Air

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.

Adoption of the Plan update is not anticipated to result in air emissions. During construction of proposed improvements, emissions may be generated from construction vehicles, equipment, and workers traveling to and from a project area. Construction activities may result in short-term, construction-related air emissions such as dust and vehicle exhaust. These short-term impacts would be minimized to the best extent practicable (e.g., water trucks to suppress dust, use of new equipment).

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

There are no off-site sources of emissions that would affect the Plan update or recommended capital improvement projects.

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

No impacts to air quality are anticipated as a result of the Plan update. All work during construction of recommended projects would be conducted per Port Master Specifications, including maintaining and repairing all equipment in a manner that meets state regulations and reasonably minimizes emissions.

3. Water

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.

Gilliam Creek, Miller Creek, Walker Creek, and Des Moines Creek all flow through the planning area and ultimately drain into the Puget Sound. There are also multiple wetlands and ditches present.

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.

As noted above, surface water bodies are present within the planning area, however there is no

impact anticipated with adoption of the Plan update. The recommended capital improvements that move forward would be evaluated on a project-specific basis for impacts to these surface water bodies.

- 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.**

No fill or dredge material be placed in or removed from surface waters or wetlands with adoption of the Plan update. Each capital project would be evaluated on a project-specific basis for impacts associated with dredge or fill.

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

SEA is a commercial water customer of the City of Seattle and receives its water through Seattle Public Utility's (SPU's) regional water system via the Cedar River Pipeline. The Plan update does not recommend surface water withdrawals or diversions beyond those already in place through SPU's regional system.

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

The planning area does not lie 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.**

The Plan update does not include recommendations for waste material discharge to surface waters.

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.**

The Plan update includes investigation of using the Des Moines Creek mitigation well as an option for emergency domestic water supply. The Des Moines Creek mitigation well was constructed large enough to serve as a possible future production well and utilize the full Water Rights associated with both the Port's Groundwater Certificates (GWC). It is 545 feet deep with a 12-inch casing.

The Plan update concludes that some changes to the Port's GWC to indicate additional allowable uses for the well water would be required, in addition to a new pump and motor; but that the well could provide adequate water to supplement a significant portion of the dry weather domestic usage.

The Plan update does not include recommendations for water discharge to groundwater.

- 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.**

The Plan update does not include recommendations for waste materials to be discharged into the ground from a septic system or other source.

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.**

SEAs stormwater system is designed to manage stormwater and wastewater for the purposes of complying with the Port's Individual National Pollutant Discharge Elimination System (NPDES) permit (#WA-0024651) and Individual Wastewater Discharge (IWD) permit (#7810-05). Treatment methods within SEA's stormwater system include infiltration and detention. Once treated, water is discharged to Puget Sound via Des Moines Creek, Miller Creek, Walker Creek, and Gilliam Creek. All discharges are subject to NPDES permit conditions.

No source of runoff, including storm water would be generated by adoption of the Plan update.

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

No discharge of waste materials to ground or surface waters are anticipated with adoption of the Plan update. Individual capital improvement projects associated with the Plan would be subject to stormwater BMPs as required by the current *Stormwater Management Manual for Western Washington* and SEA's individual National Pollutant Discharge Elimination System permit. The Aviation Environmental spill plan would be updated to include the improvements at these locations.

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

No, the Plan is not anticipated to alter or otherwise affect drainage patterns in the vicinity of the site.

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

No source of runoff or change of drainage patterns would be generated by adoption of the Plan update. For individual projects stormwater BMPs would be implemented to control impacts to surface water, groundwater, runoff water, and drainage patterns.

4. Plants

a. Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other: poplar
- evergreen tree: fir, cedar, pine, other
- shrubs: Himalayan blackberry
- grass
- pasture
- crop or grain
- orchards, vineyards, or other permanent crops
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation
 - _____ crop or grain
 - _____ orchards, vineyards or other permanent crops
 - _____ wet soil plants: bittersweet nightshade, stinging nettles, lady fern water plants:
 - _____ other types of vegetation

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

The majority of SEA is developed. If vegetated areas are disturbed by the Plan, the area would be revegetated with native plant species, consistent with SEA Landscape Design Standards.

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 planning area.

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

Areas disturbed by project construction would be revegetated with native plant species, consistent with SEA Landscape Standards.

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

Invasive species such as white poplar (*Populus alba*) and Himalayan blackberry (*Rubus armeniacus*), are present at SEA.

5. Animals

a. List any birds and animals which have been observed on or near the site or are known to be on or near the site. Examples include:

Birds: , heron, , , other: , , ,

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

Fish: , , , herring, shellfish, other: steelhead

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

No threatened or endangered animal species are known to occur on or near the Project site.

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

SEA property and lands are not part of any known migration routes.

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

No preservation or enhancement measures are proposed. The Plan is not expected to attract wildlife.

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

Rock pigeons (*Columba livia*) and European starlings (*Sturnus vulgaris*) are the only invasive animal species known to exist within the planning area.

6. Energy and natural resources

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.

The SEA water distribution system is powered by electric and diesel-powered pumps. The pump station houses 14 pumps that provide pressure to meet domestic and fire flow water demands, as well as to refill the storage reservoir. Two electric pumps supply the domestic demand, and two electric pumps are dedicated to refilling the storage reservoir. The fire protection system includes eight diesel pumps and two electric pumps.

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

The water system is not expected to affect the potential use of solar energy by adjacent properties.

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:

No specific energy conservation features are recommended in the Plan update.

7. Environmental health

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.

The Port relies on SPU to provide a safe water supply. However, the Port is responsible for the water quality within their system.

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

Water contamination could occur if impurities enter the water supply. The cause of the contamination can be anything from rotting vegetation or backflow of material to bacterial contamination of the water supply. The Plan update contains emergency response procedures and actions that should be taken in the event of contamination of the water supply.

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.

3) There are no known hazardous chemicals/conditions that might affect the water system. As stated above, water contamination could occur. bDescribe 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.

No toxic or hazardous chemicals are planned to be stored, used, or produced during operation of the water system.

4) Describe special emergency services that might be required.

No special emergency services are expected as a result of implementing the Plan. The Port maintains its own police force and firefighting and rescue units as well as a trained response team available to respond at all times in case of an emergency.

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

The Plan update includes a cooperative approach to water quality monitoring with responsibilities shared between SPU and the Port. This provides a comprehensive approach to routine sampling and ensures that upstream water quality parameters are considered in the analysis of water within the confines of the SEA water system.

Per WDOH (WAC 246-290-451), no portion of a public water system containing potable water shall be put into service nor service resumed until effectively disinfected. All pipe, reservoirs, and appurtenances would be flushed and disinfected before use.

If encountered, local, state, and federal regulations regarding safety of potable water and handling of hazardous materials would be followed and enforced.

b. Noise

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

In general, the dominant source of noise in the airport vicinity is generated by aircraft.

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.

Temporary construction noise is likely to occur with the recommended capital improvements identified in the Plan. All projects within the Plan are anticipated to be constructed during daytime

hours and adhere to relevant Port or municipal noise requirements. Long-term noise is not anticipated as a result of operating the water system.

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

None. No noise impacts are anticipated for adoption of the plan.

8. Land and shoreline use

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.

SEA is an operating major commercial airport. The Plan update is not anticipated to affect current land uses on nearby or adjacent properties.

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?

SEA is already developed and no working farmland or working forest land would be converted.

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 are no surrounding working farms or forestlands near the planning area.

c. Describe any structures on the site.

Water system structures include water storage facilities, hydrants, meters, pumps, water mains and piping.

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

The Plan update certain water system structures may be decommissioned or replaced.

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

The land use designation is not anticipated to change as a result of the plan, and there is no expected impact to nearby or adjacent land uses and properties. The current zoning classification of the airport and planning area includes Aviation Operations (AVO) and Aviation Commercial (AVC).

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

g. The current comprehensive plan designation of the planning area is airport. If applicable, what is the current shoreline master program designation of the site?

The planning area is not within a designated shoreline area.

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

Critical areas in the planning area include wetlands, wetland buffers, steep slopes, and wellhead protection areas. It is not expected that any of the proposed projects within the Plan update would impact wetlands, wetland buffers, steep slopes, or wellhead protection areas.

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

Routine operation and maintenance of the water system is anticipated to be conducted by existing staff.

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

The Plan update is not anticipated to displace any people.

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

There would be no displacement impacts as a result of the Plan update; therefore, no measures are proposed.

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

No measures are proposed because there would be no changes to existing or projected land use as a result of the Plan update.

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

There are no nearby agricultural or forestlands; therefore, no measures are proposed.

9. Housing

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

The Plan update does not include the construction of any housing.

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

The Plan update does not include the elimination of any housing.

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

There would be no housing impacts as a result of the Plan update; therefore, no measures to reduce or control housing impacts are proposed.

10. Aesthetics

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

The Plan update recommends capital improvement projects that are anticipated to be underground. However, if a new water reservoir was constructed this would likely be above-ground. The height and structure material would be determined during the design phase and evaluated for impacts to aesthetics on a project-specific basis.

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

The Plan update is not anticipated to alter or obstruct any views in the planning area. If a new water reservoir was constructed this would likely be above-ground. The dimensions would be determined during the design phase and evaluated for visual effects on a project-specific basis.

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

No measures are proposed because no aesthetic impacts are expected from the Plan update.

11. Light and glare

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

The Plan update and associated capital improvement projects is not anticipated to produce light or glare.

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

No, the Plan update and associated capital improvement projects is not anticipated to produce light or glare.

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

There are no known existing off-site sources of light or glare that may affect the Plan update.

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

No measures are proposed because no light or glare impacts are expected from the Project.

12. Recreation

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

There are no designated or informal recreational opportunities in the immediate vicinity of the Plan update.

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

The Plan update is not anticipated to displace any existing recreational uses.

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

No impacts to recreation, including recreation opportunities, are anticipated.

13. Historic and cultural preservation

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.

A project-specific historical and cultural review would be conducted prior to construction of recommended capital improvements associated with the Plan.

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.

No impacts to cultural resources are expected as a result of the Plan update.

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.

Sources consulted included previous research, historic and modern maps and photographs.

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.

No impacts are expected, and no mitigation is proposed.

14. Transportation

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.

The major arterials serving SEA include SR 518, SR 509, Des Moines Memorial Drive, and South 188th Street. Access routes will also be on arterials including South 200th Street, South 188th Street, and 24th Avenue South.

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?

Yes, SEA is served by public transportation including the Sound Transit Link light rail and King County Metro.

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

The Plan update does not include any recommendations to add or eliminate parking spaces.

- 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).**

No, the adoption of the Plan update does not require any new or improvements to existing local roads, streets, or bicycle or state transportation facilities.

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

The Plan update is not anticipated to require the use of water, rail, or air transportation. The recommended improvements within the Plan update would occur in the vicinity of air transportation for SEA.

- 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 non-passenger vehicles). What data or transportation models were used to make these estimates?**

There will be no additional vehicular trips are anticipated to be generated as a result of the Plan update. A project-specific review of potential vehicle trip generation would be conducted as appropriate for recommended capital improvement projects.

- 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.**

The Plan update is not anticipated to interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area.

- h. Proposed measures to reduce or control transportation impacts, if any:**

No transportation impacts are expected as a result of the Plan, so no measures are proposed.

15. Public services

- 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 Plan update is not anticipated to require a need for public services beyond what is currently available at SEA.

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

There are no measures proposed to reduce or control direct impacts on public services.

16. Utilities

- a. Circle utilities currently available at the site:** electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other: stormwater, industrial water system, communication.

- 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.**

SEA is a commercial water customer of the City of Seattle and receives its water through Seattle Public Utility's (SPU's) regional water system via the Cedar River Pipeline. Primary storage is provided by SEA's storage reservoir, located off Host Road east of the airport. Secondary storage is provided by the City of Seattle's Riverton Heights Reservoir located north of the airport. During normal conditions water is pumped from the Port's storage reservoir to provide flow to the main loop system; during high demand the storage reservoir may be partially or completely bypassed so water can be pumped directly from

SPU's pipeline. Pumps are used to boost the system's water pressure and provide adequate flow. The pumps are housed in SEA's pump station which contains 14 pumps: including eight diesel pumps and six electric pumps. The Plan update includes recommendations to decommission, replace and/or upsize certain pipes.

D. SUPPLEMENTAL SHEET FOR NON-PROJECT ACTIONS

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?

Adoption of the Plan update is not anticipated to increase in discharges to water; emissions to air; or to the production, storage, or release of toxic or hazardous substances; or production of noise.

- **Proposed measures to avoid or reduce such increases are:**
No measures are proposed. Adoption of the Plan update would not increase discharges to water; emissions to air; or to the production, storage, or release of toxic or hazardous substances; or production of noise.

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

Adoption of the Plan update is not anticipated to affect plants, animals, fish, or marine life.

- **Proposed measures to protect or conserve plants, animals, fish, or marine life are:**
No measures specific to the Plan update are proposed to protect or conserve plants, animal, fish, or marine life. Adoption of the Plan update is not anticipated to affect plants or wildlife.

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

Adoption of the Plan update is not anticipated to deplete energy or natural resources.

- **Proposed measures to protect or conserve energy and natural resources are:**
None. Adoption of the Plan update is not anticipated to deplete energy or natural resources. The Port has developed a water conservation program and will continue to evaluate for future needs in order to provide a positive effort toward conservation of the region's water supply.

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 Plan update is not anticipated 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.

- **Proposed measures to protect such resources or to avoid or reduce impacts are:**
None. Adoption of the Plan update is not anticipated to impact areas designated (or eligible or under study) for governmental protection.

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?

Adoption of the Plan update is not anticipated to affect land and shoreline use, or allow or encourage land or shoreline uses incompatible with existing plans.

- **Proposed measures to avoid or reduce shoreline and land use impacts are:**
None. No shoreline or land use impacts are anticipated.

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

Implementation of the Plan update is unlikely to cause an increase in demands on transportation or public services.

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

None. No demands are anticipated.

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

Adoption of the Plan update is not anticipated to conflict with local, state, or federal laws or requirements for the protection of the environment. The Plan update would be implemented in compliance with WDOH drinking water standards, and Federal Aviation Administration and National Fire Protection Association standards for fire protection.

APPENDIX A

Greenhouse Gas Emissions Worksheet Supplemental Information for SEPA Environmental Checklist

Note: Adoption of the Plan update is not anticipated to increase permanent Green House Gas Emissions. Projects recommended in the Plan update will be evaluated on a project-specific basis for source emissions and opportunities to implement energy/resource conservation and sustainability measures.

GHG Emission Sources (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆) ¹	What sources are likely from the proposal? <i>List specific type of activities and duration of emissions</i>	What is the quantitative or qualitative assessment of those emissions?	What available mitigation will avoid or reduce those emissions?
On-Road Mobile Sources	Not applicable	Not applicable	
Non-Road Mobile Sources	Not applicable	Not applicable	
Stationary Combustion	Not applicable	Not applicable	
Industrial Processes	Not applicable	Not applicable	
Fugitive Emissions	Not applicable	Not applicable	
Agricultural Emissions	Not applicable	Not applicable	
Land Disturbance	Not applicable	Not applicable	
Purchased Electricity and Steam	Not applicable	Not applicable	Individual capital projects recommended in the Plan update selected to move forward would be evaluated in the design stage for sustainable design and conservation opportunities associated with electrical demand.
Construction	Not applicable	Not applicable	
Extraction of Purchased Materials	Not applicable	Not applicable	
Processing of Purchased Materials	Not applicable	Not applicable	
Transportation of Purchased Materials	Not applicable	Not applicable	

GHG Emission Sources (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆) ¹	What sources are likely from the proposal? <i>List specific type of activities and duration of emissions</i>	What is the quantitative or qualitative assessment of those emissions?	What available mitigation will avoid or reduce those emissions?
New Facility Operations	Not applicable	Not applicable	
Other Mobile Emissions	Not applicable	Not applicable	
Water Use and Wastewater Disposal	Not applicable	Not applicable	Individual capital projects recommended in the Plan update selected to move forward would be evaluated in the design stage for sustainable design and conservation opportunities associated with water use.
Waste Management	Not applicable	Not applicable	
Product Use – New Pavement	Not applicable	Not applicable	

**Calculated via City of Seattle Department of Planning and Development SEPA GHG Emissions Worksheet.*

CH₄	Methane	Landfills, production and distribution of natural gas and petroleum, fermentation from the digestive system of livestock, rice cultivation, fossil fuel combustion, etc.
N₂O	Nitrous Oxide	Fossil fuel combustion, fertilizers, nylon production, manure, etc.
HFCs	Hydrofluorocarbons	Refrigeration gases, aluminum smelting, semiconductor manufacturing, etc.
PFCs	Perfluorocarbons	Aluminum production, semiconductor industry, etc.
SF₆	Sulfur Hexafluoride	Electrical transmissions and distribution systems, circuit breakers, magnesium production, etc.