SEATTLE PUBLIC UTILITIES
SEPA ENVIRONMENTAL CHECKLIST

This SEPA environmental review of Seattle Public Utilities' Waterway 1 Full Sewer Replacement Project has been conducted in accordance with the Washington State Environmental Policy Act (SEPA) (RCW 43.21C), State SEPA regulations (Washington Administrative Code [WAC] Chapter 197-11), and City of Seattle SEPA ordinance (Seattle Municipal Code [SMC] Chapter 25.05).

A. BACKGROUND

1. Name of proposed project:

Waterway 1 Full Sewer Replacement Project (Contract 25-1; C601265)

2. Name of applicant:

Seattle Public Utilities (SPU)

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

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4. Date checklist prepared:

December 4th, 2025

5. Agency requesting checklist:

Seattle Public Utilities (SPU)

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

Construction is scheduled to begin in 2028 and conclude in 2030. For purposes of this Checklist, the project is presumed to require up to 90 working days.

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

SPU has no other plans for future additions, expansion, or further activity related to or connected with this proposal.

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

No environmental information has been prepared.

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.

SPU is not aware of other pending government approvals of other proposals directly affecting the property or rights-of-way covered by this proposal.

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

Implementation of the proposed work would require some or all these permits or approvals:

- Seattle Department of Transportation (SDOT): Utility Major Permit, Street Use Permit
- SPU: Compliance with City of Seattle's Environmentally Critical Area regulations (SMC 25.09)
- Seattle Department of Construction and Inspections (SDCI): Noise variance
- SDCI: Exemption from the Shoreline Substantial Development Permit
- Washington Department of Natural Resources (WDNR): An agreement or other property right to construct utility repairs on a WDNR-owned parcel where no such agreement or other property right exists.

11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

Throughout the City of Seattle, SPU replaces deteriorated sewer pipes and associated structures using its Full Sewer Replacement Program. Sewer lines are replaced based on the potential they have for future problems or failure. Problems range from nuisance issues to property damage. Generally, the work removes a section of the existing pipe and replaces it with a new pipe. Typically, the sections of pipe are in City-owned street rights-of-way or on City easements on private property. Work typically includes (but is not limited to) traffic control, potholing, full trench excavation, replacement of pipe sections and pipe fittings, reinstatement of laterals, bedding, disposal of excavated material, dewatering, backfilling, CCTV inspection after repair is done, bypass pumping of drainage and wastewater, and restoration of disturbed ground and damaged and demolished paved surfaces. To support design of the sewer repairs, SPU may conduct geotechnical investigations of subsurface soil and groundwater conditions in the vicinity of existing sewer lines.

To obtain efficiencies in the contracting and construction of these sewer pipe replacements, SPU bundles individual, unrelated pipes into a single construction bid document. Contractors then bid on the packaged set and the successful bidder conducts the pipe replacement as specified in contract documents. SPU is currently preparing Full Sewer Replacement Contract 25-1 that bundles five different pipe replacement projects. Any one of the projects in Contract 25-1 is independent of the others and does not limit the choice of reasonable alternatives on any of the other projects included in Contract 25-1.

One of those projects is the Waterway 1 Full Sewer Replacement Project, which involves pipes larger than 12 inches in diameter and is the subject of this Checklist. The other four projects included in Contract 25-1 are categorically exempt from SEPA threshold determination requirements as established by WAC 197-11-800 and Seattle Ordinance 114057 (SMC 25.05.800) and will not be discussed further in this Checklist. Proposed repairs at these four

projects are exempted per SMC 25.05.800.X (Utilities) because the work would affect pipes less than 12 inches in diameter:

- 224 Ward St: replace approximately 231 lineal feet (LF) of existing 8-inch diameter clay sewer mainline from maintenance hole (MH) 035-117 to MH 035-138 and reinstate existing laterals;
- 633 W Mercer Pl: replace approximately 513 LF of existing 8-inch diameter clay sewer main from MH 034-103 to MH 034-102 and reinstate existing laterals;
- 3816 14th Ave W: replace approximately 58 LF, 21 LF, and 29 LF of three different 8-inch diameter clay sewer mains and reinstate existing laterals; and
- 3862 E Howell St: replace approximately 280 LF of 8-inch diameter clay sewer main from MH 042-240 to MH 042-241 and reinstate all laterals.

The Waterway 1 Full Sewer Replacement Project would replace approximately 61 LF of a failing 15-inch diameter clay sewer main constructed in 1912. The pipe section is between upstream MH 025-200 (in street right-of-way for 43rd Ave NE) and downstream MH 025-198 (on parcel 152504HYDR). Additional, related work would:

- Replace 7 LF of a broken 18-inch diameter clay sewer main from approximately 129 feet to 136 feet downstream from upstream MH 025-197 (in street right-of-way for NE 35th St). After completion of the spot repair, CIPP line the sewer main for approximately 195 LF from MH 025-197 (in street right-of-way for NE 35th St) to MH 025-198 (on parcel 152504HYDR);
- CIPP line a 10-inch diameter RCP sewer main for approximately 66 LF from MH 025-204 (in street right-of-way for 43rd Ave NE) to MH 025-198 (on parcel 152504HYDR);
- CIPP line a 15-inch diameter RCP sewer main for approximately 145 LF from MH 025-217 (on private parcel 4114600160 [3335 43rd Ave NE]) to MH 025-199 (on parcel 152504HYDR). After CIPP lining the sewer main, install two tee liners on wye connections to the sewer main at approximately 43 and 46 feet downstream from MH 025-217 (both on parcel 4114600160 [3335 43rd Ave NE]); and
- Install new maintenance holes and other appurtenances as needed and reinstate laterals.

New pipework would be installed using standard cut-and-cover and open-trench methods. CIPP lining and tee liners would be installed using trenchless (cast-in-place-pipe [CIPP]) methods that use existing maintenance holes for access.

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 Waterway 1 Full Sewer Replacement Project would occur in the City of Seattle's Laurelhurst neighborhood in street rights-of-way for 43rd Ave NE and NE 35th St, on parcel 152504HYDR owned and managed by WDNR, and on privately owned parcel 4114600160 (3335 43rd Ave NE). Work on parcel 4114600160 would occur in an SPU-acquired easement. The WDNR parcel is known as Waterway 1 and is a waterfront property used as public open space and maintained by the Laurelhurst Community Club and Friends of Waterway 1 through a Memorandum of Agreement with the Seattle Department of Parks and Recreation. See Attachments A and B for a vicinity and location maps, respectively.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

☒ Flat ☐ Rolling ☐ Hilly ☐ Steep Slopes ☐ Mountainous ☐ Other:

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

The work area is flat.

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 these soils.

Geologic conditions of the Puget Sound region are a result of glacial and non-glacial activity occurring over the course of millions of years and are described in the Washington Department of Natural Resources' Washington Geologic Information Portal (https://geologyportal.dnr.wa.gov/). The project site is mapped as glacial till and glacial drift. However, urban development over the last 120 years in the project area has resulted in predominance of disturbed native soils/sediments, cut slopes, and placements of fill material. This project site and the immediate surrounding areas have been substantially filled, developed, and disturbed in this way. There are no agricultural lands of long-term commercial significance designated in the project area.

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

The City of Seattle designates geologically hazardous areas as Environmentally Critical Areas (ECA) based on historic and current geologic conditions, including topography and underlying soils. According to City of Seattle ECA maps (http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2), the project site is in Liquefaction and Peat-settlement ECAs. While the project site does not show obvious surface features of unstable soils, buried utility failures here may be related to liquefaction and/or peat settlement.

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

This project proposes to excavate, backfill, and restore ground surfaces to allow replacement of approximately 70 LF of buried pipe. Excavation volumes are not expected to exceed 200 cubic yards. Suitable native material or Type 17 would be used to backfill excavations under unpaved areas and CDF to backfill excavations in paved areas.

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

Erosion is expected to be minimal because sedimentation and erosion controls would be deployed, and work areas are mostly flat. Construction staging and access would occur on paved surfaces. Ground disturbance would occur in existing paved areas; in developed roadway prisms; and in compacted, turf-vegetated earth on the WDNR parcel.

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

No new impervious surfaces are proposed. Ground disturbance would occur in existing paved areas and in compacted, turf-vegetated earth on the WDNR parcel. Existing paved surfaces damaged by construction would be restored as required by SDOT. The existing paved basketball court on the WDNR parcel would be restored in-kind. Proposed work would not result in an increase or decrease in impervious surfaces.

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

Wherever possible, construction staging and access would be on existing paved surfaces. Risk of erosion and sedimentation is low because sedimentation and erosion controls would be deployed, and work areas are flat. Temporary erosion and sediment control best management practices (BMP) would be deployed, inspected, and maintained as needed per the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual. Disturbed vegetated areas (primarily turf on the WDNR parcel) would be revegetated in-kind.

2. Air

a. What types of emissions to the air would result from the proposal [*e.g.*, dust, automobile, odors, industrial wood smoke, greenhouse gases (GHG)] during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Mobile and stationary equipment would be used to construct the proposed project, thus generating emissions due to the combustion of gasoline and diesel fuels (such as oxides of nitrogen, carbon monoxide, particulate matter and smoke, uncombusted hydrocarbons, hydrogen sulfide, carbon dioxide, and water vapor). Emissions during construction would also include dust from ground-disturbing activities and exhaust

(carbon monoxide, sulfur, and particulates) from construction equipment and are expected to be minimal, localized, and temporary.

This project would generate greenhouse gas (GHG) emissions through construction activity only. GHG emission calculations are shown in Attachment C and summarized in Table 1. One metric ton metric ton of carbon dioxide emission (MTCO2e) is equal to 2,205 pounds. This project would generate GHG emissions during the estimated 90 working days (on average) required per site through the operation of diesel- and gasoline-powered equipment and to transport materials, equipment, and workers to and from the project sites. Estimates are also based on typical transportation and construction equipment used for this type of work. Embodied energy in the materials used in this project has not been estimated as part of this SEPA environmental review due to the difficulty and inaccuracy of calculating such estimates.

During operation, the finished project is not expected to result in increased GHG emissions as compared with pre-project levels because the replaced and lined pipe sections are not expected to require maintenance levels greater than the existing pipe sections currently require and would not be replaced for more than 50 years.

Table 1. Summary of Greenhouse Gas (GHG) Emissions.

Activity/Emission Type	GHG Emissions (pounds of CO_2e)[1]	GHS Emissions (metric tons of CO_2e)[1]
Buildings	0	0
Paving	110,250	50
Construction Activities (Diesel)	63,117.3	28.6
Construction Activities (Gasoline)	17,496	7.9
Long-term Maintenance (Diesel)	0	0
Long-term Maintenance (Gasoline)	0	0
Total GHG Emissions	190,863.3	86.5

[1] Note: 1 metric ton = 2,204.6 pounds of CO_2e. 1,000 pounds = 0.45 metric tons of CO_2e

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

There are no known off-site sources of emissions that would affect this proposal.

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

During construction, impacts to air quality would be reduced and controlled through implementation of standard federal, state, and local emission control criteria and City of Seattle construction practices. These would include requiring contractors to use best available control technologies, proper vehicle maintenance, and minimizing vehicle and equipment idling.

3. Water

a. Surface:

(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 so, describe type and provide names. If appropriate, state what stream or river it flows into.

The project is adjacent to Lake Washington. There would be no in-water work.

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

The proposed work would occur within 200 feet of Lake Washington, but there would be no in-water construction activity.

(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 material would be placed in or removed from surface water or wetlands.

(4) Will the proposal require surface water withdrawals or diversions? If so, give general description, purpose, and approximate quantities if known.

The proposed work would not require surface water withdrawals or diversions.

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

No portion of the project lies 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 proposed project would not discharge waste materials to surface waters.

b. Ground:

(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 proposed project would not withdraw, discharge, or surcharge groundwater. During construction, temporary dewatering may be needed in the trenches during open-cut pipe installation. Dewatering rates are not known at this time. Groundwater from dewatering wells may be infiltrated in nearby upland areas. If infiltration is not feasible, collected groundwater may be discharged to stormwater systems, sewer systems, or directly to aquatic areas (Lake Washington) after treatment (e.g., sedimentation tanks or similar) in accord with water quality regulations, permit conditions, and best practices. The project does not involve any wells for drinking water or other water supply or discharge of waste material 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.

No waste material would be discharged to groundwater.

c. Water Runoff (including storm water):

(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.

The completed project would not alter existing stormwater drainage patterns.

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

There would be no waste materials from this project that could enter ground or surface waters.

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

No, the proposal would not alter drainage patterns. Any disturbed vegetated areas would be restored in-kind.

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

Adverse impacts to surface, ground, or runoff water would be avoided and minimized to the extent possible using BMPs, as identified in the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual. Those BMPS would be used as needed to control erosion and sediment transport from and to the project site during construction.

4. Plants

a. Types of vegetation found on the site:

- [x] Deciduous trees: [x] Alder [x] Maple [ ] Aspen [ ] Other:
- [ ] Evergreen trees: [x] Fir [x] Cedar [ ] Pine [ ] Other:
- [x] Shrubs
- [x] Grass
- [ ] Pasture
- [ ] Crop or grain
- [ ] Orchards, vineyards, or other permanent crops
- [ ] Wet soil plants: [ ] Cattail [ ] Buttercup [ ] Bulrush [ ] Skunk cabbage
- [ ] Other:
- [ ] Water plants: [ ] water lily [ ] eelgrass [ ] milfoil [ ] Other:
- [x] Other types of vegetation: weeds in maintained street and utility rights-of-way

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

Generally, the project is in developed and paved street rights-of-way that have no or weedy vegetation. Ground-disturbing construction would impact areas of mown turf on the WDNR parcel. The project would not remove any trees. Damaged turf would be restored to pre-project conditions.

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

No federally listed endangered or threatened plant species or State-listed sensitive plant species are known to occur within the City of Seattle municipal limits. The project site has been disturbed by development and redevelopment over the last 150 years and has been extensively excavated, filled, paved, or occupied by boat landing, street, utility, and park construction.

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

Proposed work would limit plant removal, pruning, and other disturbance to that required for project construction. All damaged vegetation would be restored to pre-project conditions.

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

The King County Noxious Weed Program (available at King County iMap interactive online mapping program, http://gismaps.kingcounty.gov/iMap/) identifies purple loosestrife (*Lythrum salicaria*)—a B-designate—noxious weed on the WDNR parcel along the Lake Washington shoreline.

5. Animals

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

Birds: ☒ Hawk ☒ Heron ☒ Eagle ☒ Songbirds
☒ Other: The project is within the Pacific Flyway migratory corridor and the project area is known to host a wide variety of transient, resident, and migratory waterfowl, songbirds, and raptors. In addition to boxes checked, some commonly observed species include transient geese, ducks, crows, pigeons, and gulls.

Mammals: ☐ Deer ☐ Bear ☐ Elk ☒ Beaver
☒ Other: The geographic extent of the project encompasses presence and habitats for a variety of animal species commonly found in urban areas. Commonly observed species include opossums, rabbits, raccoon, skunk, squirrel, rats, mice, and bats.

Fish: ☐ Bass ☒ Salmon ☒ Trout ☐ Herring
☐ Shellfish ☐ Other: These and other fish species are present in Lake Washington. The project site is adjacent to Lake Washington.

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

Based on a check of the Washington Department of Fish and Wildlife's "Priority Habitat Species on the Web" database on October 10, 2025, coho salmon (*Oncorhynchus kisutch*), steelhead trout (*O. mykiss*), Chinook salmon (*O. tshawytscha*), and sockeye salmon (*O. nerka*) are found in Lake Washington. Chinook salmon is listed as a Threatened species under the Endangered Species Act.

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

Seattle is within the migratory route of many birds and other animal species and is part of the Pacific Flyway, a major north-south route of travel for migratory birds in the Americas extending from Alaska to Patagonia, South America.

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

The proposed work would limit plant removal, pruning, and other disturbance to that required for project construction. Project construction would not remove any trees or shrubs but may temporarily damage lawn or landscaped areas. All damaged vegetation would be restored to pre-project conditions. No in-water work is proposed.

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

King County lists the European starling, house sparrow, Eastern gray squirrel, and fox squirrel as terrestrial invasive species for this area (http://www.kingcounty.gov/services/environment/animals-and-plants/biodiversity/threats/Invasives.aspx).

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.*

No additional energy would be required to meet the constructed project's energy needs, beyond the energy already used for the existing municipal water system.

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

The proposed project does not involve building structures or planting vegetation that would block access to the sun for 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:

There are no conservation features or proposed measures to reduce or control energy impacts because there would be no such impacts.

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:

Small amounts of materials likely to be present during construction, mainly to support vehicle and construction equipment, include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, but also may include solvents, paints, and other chemical products. A spill of one of these chemicals could potentially occur during construction due to equipment failure or worker error. Though unlikely, contaminated soils, sediments, or groundwater could also be exposed during excavation. If disturbed, contaminated substances could expose construction workers and potentially other individuals in the vicinity through blowing dust, stormwater runoff, or vapors.

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

The project site is not known to have environmental contamination. However, it is possible that contamination of soil or groundwater associated with past uses or activities on or near the project site may be present.

(a) 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.

There are no known hazardous chemicals or conditions that might affect project development and design.

(b) 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.

Chemicals and pollutants that may be present during construction include:

- petroleum products associated with vehicular and equipment use, including fuel, lubricants, hydraulic fluids, and form-release oils
- paints, glues, solvents, and adhesives
- chemicals associated with portable toilets.

No toxic or hazardous chemicals would be stored, used, or produced at any time during the operating life of the constructed project.

(c) Describe special emergency services that might be required.

No special emergency services such as confined space rescue would be required during construction or operation of the project. Possible fire or medic services could be required during project construction, as well as possibly during operation of the completed project. However, the completed project would not demand higher levels of special emergency services than already exist at the project site.

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

SPU's construction contractor would be required to develop and implement a Spill Plan to control and manage spills during construction. In addition, a spill response kit would be maintained at each site during construction work at that site, and all project site workers would be trained in spill prevention and containment consistent with the City of Seattle's Standard Specifications for Road, Bridge, and Municipal Construction. During construction, the contractor would use standard operating procedures and BMPs identified in the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual to reduce or control any possible environmental health hazards. Soils contaminated by spills during construction would be excavated and disposed of in a manner consistent with the level and type of contamination, in accordance with federal, state and local regulations, by qualified contractor(s) and/or City staff. Additionally, excavations would be required to be shored for worker safety.

b. Noise

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

Noise that exists in the area would not affect the project.

(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.

Noise levels in the vicinity of construction would temporarily increase during construction activities. Short-term noise from construction equipment would be limited to the allowable maximum levels of City of Seattle's Noise Control Ordinance (SMC Chapter 25.08). Per SMC 25.08, elevated noise from construction equipment would be allowed only between the hours of 7 a.m. and 10 p.m. weekdays, and between 9 a.m. and 10 p.m. on weekends and legal holidays. For this project, construction typically would take place between 7 a.m. to 6 p.m. on weekdays, except for emergencies that may occur before or after those times. There would be no additional noise after completion of the project except for periodic inspection, maintenance, and renovation activity.

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

Construction equipment would be muffled in accordance with the applicable laws. SMC Chapter 25.08 (which prescribes limits to noise and construction activities) would be enforced while the project is being constructed and during operations, except for emergencies.

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.

The project site includes developed street rights-of-way and a WDNR parcel used by the local neighborhood to access the Lake Washington shoreline, walk pets, and play basketball. Otherwise, the project site is in a predominantly single family residential neighborhood. The work would not change land uses on nearby or adjacent properties. However, the proposed work could result in short-term, temporary street closures, and/or route detours for streets that would be experienced by individuals who live, work, or visit destinations on or near the 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 non-forest use?

The project site has not been recently used for agricultural purposes or forestry. The project would not result in land use conversion.

(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?

The proposed work would neither be affected by nor affect surrounding working farm or forest land normal business operations because there are no such operations at or near the project site.

c. Describe any structures on the site.

Structures include paved roads and associated transportation signage, light poles, and so forth. SPU owns buried utilities. Transportation pavement and structures are not associated with the project and would not be affected. King County Wastewater Treatment Division (KCWTD) owns and operates a 48-inch diameter RCP sewer mainline that passes through the project site. SPU would coordinate with KCWTD to ensure protection of their mainline.

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

The project would demolish approximately 70 LF of existing sewer main and replace those pipe sections with same-diameter pipes.

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

The project site is currently zoned Neighborhood Residential (NR1).

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

The project site is designated Residential.

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

The site is in the Urban Residential Environment of the Shoreline Management District of Lake Washington.

h. Has any part of the site been classified as an "environmentally critical" area? If so, specify.

According to City of Seattle ECA maps (http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2), the project site is in Liquefaction and Peat-settlement ECAs.

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

No people would reside or work in the completed project.

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

The project would not displace any people.

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

There would be no displacement impacts.

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

The project would not change existing land uses. No measures are required to ensure the proposal is compatible with existing and projected land uses and plans.

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

There are no nearby agricultural and forest lands of long-term commercial significance. No measures are required to reduce or control impacts to agricultural and forest lands of long-term commercial significance.

9. Housing

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

The proposed project would not construct any housing units.

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

The proposed project would not eliminate any housing units.

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

No measures are proposed because there would be no housing impacts.

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?

No above-ground utility structures would be added or modified.

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

No views would be altered or obstructed.

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

No such measures are proposed because there would be no aesthetic impacts.

11. Light and Glare

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

The constructed project would not produce light or glare. No new streetlights are proposed or required. During construction, if an emergency requires after-dark work, the construction contractor may deploy portable lights that temporarily produce light and glare.

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

The completed project would not create light or glare.

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

There are no existing off-site sources of light and glare that would affect the proposal.

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

No measures are needed to reduce or control light and glare impacts because no impacts would occur. If an emergency requires after-dark work during construction, portable lighting would be adjusted as feasible to minimize glare.

12. Recreation

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

The project is in and adjacent to street rights-of-way for minor arterials 43rd Ave NE and NE 35th St. Residents use these street rights-of-way for walking, running, and riding bicycles. The project would occur on a WDNR parcel used by neighborhood residents to access Lake Washinton and the Lake Washington shoreline, walk pets, and play basketball.

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

The proposed work would not permanently displace existing recreational uses. Access to streets and parking areas affected by project construction would be more challenging during construction, but SPU would require the project contractor to maintain safe pedestrian and vehicle access at all times.

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

Temporary lane closures and detours affecting vehicle and pedestrian routes/access may be required during construction. The work may be required to submit, obtain approval for, and implement Traffic Control Plans that maintain pedestrian and bicycle access through or around the project sites during construction. The project would attempt to make detours as brief as possible.

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? If so, specifically describe.

There are no buildings, structures, or sites on or adjacent to the project site that are over 45 years old and listed in or determined to be eligible for listing in national, state, or local preservation registers. The subject pipe sections are older than 45 years and there are buildings and structures older than 45 years near the project site. Those buildings and structures would not be affected by this 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.

No landmarks, features, or other evidence of Indian or historic use or occupation are known to be on or immediately adjacent to the project site. The WDNR parcel was formerly a landing site for the historic "Mosquito Fleet" on Lake Washington, which was a network of privately operated steamships and boats that served as a vital transportation system for the region from the late 19th into the early 20th centuries. According to the Washington Information System for Architectural and Archaeological Records Data (WISAARD) predictive model based on environmental factors, the project site is in areas with a Very High Risk rating for detecting archaeological resources. No known archaeological materials or cemeteries have been found in or near the project site. SPU will conduct a cultural resource assessment with ground surveys.

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 Archaeology and Historic Preservation, archaeological surveys, historic maps, GIS data, *etc.*

To determine if National Register or Washington Heritage Register eligible properties are in or adjacent to the project, the project sites were checked against the following resources on October 10, 2025:

King County Historic Preservation Viewer:
https://kingcounty.maps.arcgis.com/apps/View/index.html?appid=08c6e1fe041b4f7a8912e21b55219de1

Washington Heritage Register and National Register of Historic Places:
http://www.dahp.wa.gov/historic-register

Washington Information System for Architectural and Archaeological Records Data database: https://wisaard.dahp.wa.gov/

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.

The proposed work would minimally disturb previously disturbed and filled upland areas. The proposed work would not affect buildings or known cultural resources. Also, none of this portion of SPU's existing wastewater system is considered historically or culturally important. The work's location on previously disturbed and filled ground and general confinement to the footprint of existing pipes importantly reduces the chance of encountering contextually significant archaeological materials. However, given the Very High ratings for potentially encountering archaeological materials, the project will have an approved inadvertent discovery plan onsite and in effect during all construction and ground-disturbing activities. Based on the results of SPU's cultural resource assessment, all ground-disturbing construction activity may be required to be monitored by a professional archaeologist.

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.

Generally, the project site is in street rights-of-way developed and used for utility and transportation purposes. 43rd Ave NE and NE 35th St are minor arterials. Staging areas would be on existing paved surfaces in street rights-of-way.

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?

The project site is not served directly by public transit. Public bus transit service in this area of the City of Seattle is provided by King County Metro. The nearest bus routes are on NE 45th St, more than 2,800 feet north of the project site.

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

The project would restore any damaged street pavement or other transportation infrastructure to pre-construction conditions or better and consistent with SDOT requirements. The proposal would not require any new or improved public or private transportation infrastructure.

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

The proposed project would not use or occur in the immediate vicinity of water, rail, or air transportation facilities.

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

Project work would be conducted at an existing wastewater pipe location. The site currently requires infrequent, periodic trips to transport SPU crews, contractors, and equipment to perform visual inspections, maintenance, and repairs when needed. No long-term additional traffic would result from the completed project. Transport of materials and equipment during construction would generate an estimated 750 round trips. The completed project is not anticipated to require any maintenance and would not generate any additional round trips beyond those currently needed for the existing affected pipe sections.

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

The proposal would not interfere with, affect, or be affected by movement of agricultural and forest products on roads or streets in the area.

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

The proposed work does not have any transportation-related permanent impacts. Temporary lane closures or detours affecting vehicle and pedestrian routes/access may be required. The work may be required to submit, obtain approval for, and implement Traffic Control Plans that maintain pedestrian and bicycle access through or around the project sites during construction. The following measures would be used to reduce or control transportation impacts:

- SPU would require the contractor to submit a traffic control plan for approval and enforcement by SPU and SDOT.
- SPU would conduct public outreach before and during the project to notify residents, local agencies, Metro, and other stakeholders of work progress and expected disruptions or changes in traffic flow.
- Access for emergency-response vehicles would be maintained at all times.
- Through access may not be available at all times during project, temporary closures would be minimized and detour routes would be properly and clearly signed. Vehicle access to private properties would be maintained, subject to temporary traffic control measures such as signage and flagging.
- Alternative routes for pedestrians, bicyclists, and those with disabilities would be identified and clearly signed, as needed.

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 proposed project is not expected to create an increased need for public services. The project would be required at all times to accommodate emergency access for buildings accessed via affected streets. Emergency access would comply with relevant policies administered by SDOT as part of its street use permitting process.

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

During construction, the project would be required at all times to accommodate emergency access. No mitigation is being proposed because the project would not increase impacts on public services.

16. Utilities

a. Check utilities available at the site:

☐ None
☒ Electricity ☒ Natural gas ☒ Water ☒ Refuse service
☒ Telephone ☒ Sanitary sewer ☐ Septic system
☒ Other: cable, fiber optics

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.

During construction, water service would not be interrupted within the affected service area. No interruptions of other utilities or services are anticipated during project construction. KCWTD owns and operates a 48-inch diameter RCP sewer mainline that passes through the project site. SPU would coordinate with KCWTD to ensure protection of their mainline. No new utilities are being proposed. The effect of this proposal would extend the life of an existing wastewater asset and minimize risk of its failure.

C. SIGNATURE

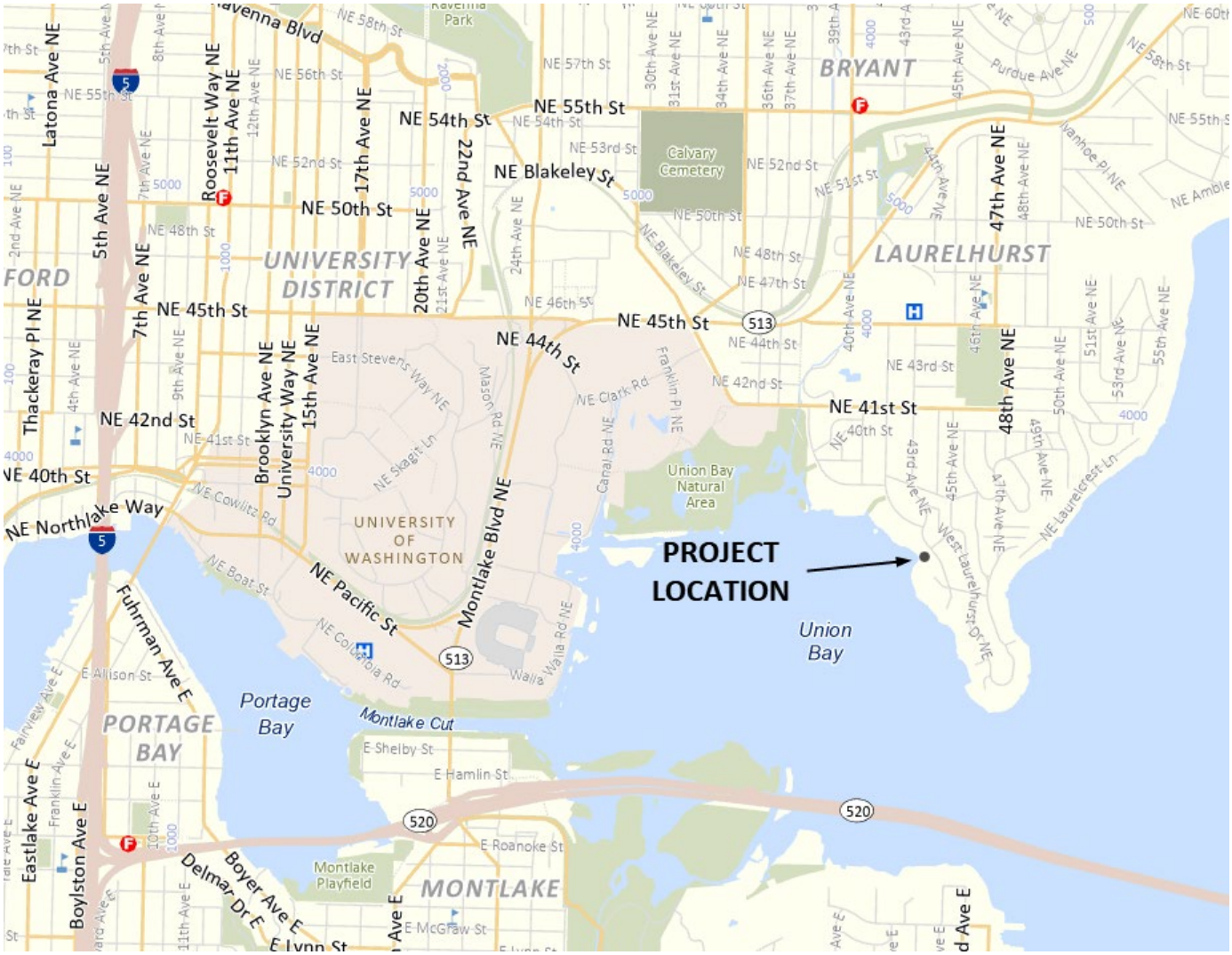
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Matt Fewins, Project Engineer

Attachment A: Vicinity Map
Attachment B: Location Map
Attachment C: Greenhouse Gas Emissions Worksheet

Attachment A: Vicinity Map



Attachment B: Location Map

Attachment C: Greenhouse Gas Emissions Worksheet

Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet ($MTCO_2e$)			Lifespan Emissions ($MTCO_2e$)
			Embodied	Energy	Transportation	
Single-Family Home	0		98	672	792	**0**
Multi-Family Unit in Large Building	0		33	357	766	**0**
Multi-Family Unit in Small Building	0		54	681	766	**0**
Mobile Home	0		41	475	709	**0**
Education		0.0	39	646	361	**0**
Food Sales		0.0	39	1,541	282	**0**
Food Service		0.0	39	1,994	561	**0**
Health Care Inpatient		0.0	39	1,938	582	**0**
Health Care Outpatient		0.0	39	737	571	**0**
Lodging		0.0	39	777	117	**0**
Retail (Other than Mall)		0.0	39	577	247	**0**
Office		0.0	39	723	588	**0**
Public Assembly		0.0	39	733	150	**0**
Public Order and Safety		0.0	39	899	374	**0**
Religious Worship		0.0	39	339	129	**0**
Service		0.0	39	599	266	**0**
Warehouse and Storage		0.0	39	352	181	**0**
Other		0.0	39	1,278	257	**0**
Vacant		0.0	39	162	47	**0**
					TOTAL Section I Buildings	**0**

Section II: Pavement

						Emissions ($MTCO_2e$)
Pavement (sidewalk, asphalt patch)		0.0	0			**0**
Concrete or Asphalt Pad (50 $MTCO_2e$ per 1,000 sq ft of pavement 6 inches deep)		1,000.0	50			**50**
					TOTAL Section II Pavement	

Section III: Construction

(See detailed calculations below)	Emissions ($MTCO_2e$)
TOTAL Section III Construction	**36.5**

Section IV: Operations and Maintenance

(See detailed calculations below)	Emissions ($MTCO_2e$)
TOTAL Section IV Operation and Maintenance	**0**

TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT ($MTCO_2e$)	**86.5**

Attachment C: Greenhouse Gas Emissions Worksheet, continued

Section III Construction Details		
Construction: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
jetter/vactor truck (for cleaning pipe)	220	5 working days x 8 hours/day x 5.5 gallons/hour (270 hp engine)
excavator	1,400	200 hours x 7 gallons/hour (345 hp engine)
dump truck (10 CY capacity)	24	4 round trips x 30 miles/round trip ÷ 5mpg
front-end loader	700	100 hours x 7 gallons/hour (345 hp engine)
support/flatbed/box truck	33.3	10 working days x 1 round trip/day x 20 miles/round trip ÷ 6 mpg
Subtotal Diesel Gallons	2,377.3	
GHG Emissions in lbs CO_2e	63,117.3	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	28.6	1,000 lbs = 0.45359237 metric tons

Construction: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Pick-up Trucks or Crew Vans	720	90 working days x 4 vehicles x 2 round-trip/day x 20 miles/round trip ÷ 20 mpg
Subtotal Gasoline Gallons	720	
GHG Emissions in lbs CO_2e	17,496	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	7.9	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	63,117.3	28.6
Gasoline	17,496	7.9
Total for Construction	80,613.3	**36.5**

Section IV Long-Term Operation and Maintenance Details		
Operations and Maintenance: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Subtotal Diesel Gallons		
GHG Emissions in lbs CO_2e		26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e		1,000 lbs = 0.45359237 metric tons

Operations and Maintenance: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Subtotal Gasoline Gallons		
GHG Emissions in lbs CO_2e		24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e		1,000 lbs = 0.45359237 metric tons

Operations and Maintenance Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel		
Gasoline		
Total Operations and Maintenance		