SEATTLE PUBLIC UTILITIES
SEPA ENVIRONMENTAL CHECKLIST

This SEPA environmental review of Seattle Public Utilities' SEPA Checklist for its Sewer Replacement Near 2122 E Jefferson St 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 the City of Seattle SEPA ordinance [Seattle Municipal Code (SMC) Chapter 25.05].

A. BACKGROUND

1. Name of proposed project:

Sewer Replacement Near 2122 E Jefferson St (C600660)

2. Name of applicant:

Seattle Public Utilities (SPU)

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

Samantha Menathy, Project Manager
Seattle Public Utilities
P.O. Box 34018
Seattle, WA 98124-4018
206-492-3590| samantha.menathy@seattle.gov

4. Date checklist prepared:

March 07, 2025

5. Agency requesting checklist:

Seattle Public Utilities (SPU)

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

Construction is scheduled to begin in the summer of 2026 and conclude in the fall of 2027.
For purposes of this Checklist, the Project is presumed to require up to 60 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.

There are no 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.

SPU Geotechnical Engineering. 2023 (July). Final Geotechnical Report, E Jefferson St Sewer Replacement Project.

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 all or some of these permits or approvals:

- Seattle Department of Transportation (SDOT): Minor Utility Permit, Street Use Permit, and Approved Traffic Control Plan

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.

SPU owns and operates a wastewater collection system that serves the City of Seattle. SPU has identified one site (near 2122 E Jefferson St) in this system as a high priority for sanitary sewer replacement, as described below. SPU considers this utility work to be non-exempt from SEPA threshold determination provisions because the subject pipe is more than 12 inches in diameter.

The Jefferson site is in the Central District in street ROW for E Jefferson St west of the intersection with 22nd Ave (Attachments A and B). The existing 27-inch diameter pipe is buried approximately 11 to 16 feet deep in the planting strip (a non-standard location) under existing street trees. The pipe is severely deformed and has several structural breaks presumed to be caused by tree roots. The proposed project would completely replace the pipe by installing approximately 82 lineal feet of 27-inch diameter vitrified clay sanitary sewer pipe in the planting strip between MH041-154 and MH041-152. Construction would use typical open-cut methods. There are no known lateral connections to the main.

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 work would be located in City of Seattle street right-of-way for E Jefferson St.

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/). However, urban development over the last 100 years has resulted in predominance of disturbed native soils/sediments, cut slopes, and placements of fill material. The Project does not propose substantial disturbance of unpaved ground. There are no agricultural lands of long-term commercial significance designated in the area.

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

The City of Seattle designates and maps geologically hazardous areas as Environmentally Critical Areas (ECA) based on historic and current geologic conditions, including topography and underlying soils (http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2). The work site is in an improved street right-of-way, is not mapped as being in or near geologically hazardous areas, and does not show surface features of unstable soils except for the voiding caused by the culvert failure.

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.

The proposal would excavate, backfill, and restore ground surfaces. Excavation volumes are not expected to exceed 100 cubic yards. Construction would disturb approximately 1,500 square feet (SF) of paved ground. Suitable native material or Type 17 would be used to backfill those excavations and pavements would be restored.

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

Erosion is expected to be minimal because limited excavation is proposed, sedimentation and erosion controls would be deployed, and the work area is flat. Excavation would occur in improved street rights-of-way and within developed roadway prisms. Construction staging and access would be on existing paved surfaces.

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 or on compacted graveled roadway surfaces. Approximately 1,500 SF of existing paved surfaces damaged by construction would be repaired as required by SDOT. 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 located on existing paved surfaces. Risk of erosion and sedimentation is low because the Project proposes minimal excavation in flat work areas. Temporary erosion and sediment control best management practices 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, if any, would be revegetated in-kind or as directed by SDOT.

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 60 working days through operation of diesel- and gasoline-powered equipment and to transport materials, equipment, and workers to and from the work site. Estimates are also based on typical transportation and construction equipment used for this type of work. Embodied energy in replacement 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 Project is not expected to result in increased GHG emissions as compared with pre-project levels because the replaced pipe section is not expected to require maintenance (beyond what has currently been conducted) or replacement for approximately 50 years.

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

Activity/Emission Type	GHG Emissions (pounds of CO_2e)[1]	GHG Emissions (metric tons of CO_2e)[1]
Buildings	0	0
Paving	165, 375	75
Construction Activities (Diesel)	19,726.65	8.95
Construction Activities (Gasoline)	8,748	3.97
Long-term Maintenance (Diesel)	0	0
Long-term Maintenance (Gasoline)	0	0
Total GHG Emissions	28,474.65	87.92

[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.

There are no wetlands, watercourses, or water bodies in or near the work site.

(**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 Project would not require any work over, in, or adjacent to any wetlands, watercourses, or 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 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 proposal is in 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 proposal 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 proposal would not withdraw, discharge, or surcharge 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 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. Disturbed vegetated areas would be restored in-kind or as directed by SDOT.

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

No adverse impacts to surface, ground, or runoff water are anticipated. Best management practices, 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, would be used as needed to control erosion and sediment transport from and to the work site during construction.

4. Plants

a. Types of vegetation found on the site:

☒ Deciduous trees:	☐ Alder	☐ Maple	☐ Aspen	☐ Other: birch
☐ Evergreen trees:	☐ Fir	☐ Cedar	☐ Pine	☐ Other: western hemlock, English holly
☒ Shrubs				
☒ 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:
☒ Other types of vegetation: weeds, mown turf				

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

Generally, the Project area is in a developed street right-of-way dominated by pavement. However, because the subject pipe is in the planting strip and the replacement pipe would be installed beneath the planting strip, turf and street trees would be removed. Four street trees would be permanently removed, including one 28-inch diameter horse chestnut (*Aesculus hippocastanum*) and three Persian ironwoods (*Parrotia persica*) with diameters of up to 2 inches. Damaged turf would be restored to pre-project conditions following construction, as directed by SDOT. Removed street trees would be replaced as directed by SDOT.

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 work site has been disturbed by development and redevelopment over the last 100 years and has been extensively excavated, filled, paved, or occupied by street, utility, and other constructed features.

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 construction. Construction would not remove any trees or shrubs. All damaged vegetation would be restored to pre-project conditions following construction.

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 giant hogweed (*Heracleum mantegazzianum*; Class A Noxious Weed) near the work site.

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 work site is in 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 the Duwamish Waterway, Puget Sound, and Lake Washington. However, the work site is more than 5,000 feet from Lake Washington, the nearest fish-bearing water.

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 February 18, 2025, no federal Endangered Species Act-listed species are known from or near the work site. The "Priority Habitat Species on the Web" database indicates the project site is in the former range of the northwestern pond turtle (*Actinemys marmorata*), a State-listed endangered species. However, there have been no reputable sightings of northwestern pond turtle in Seattle for many years and the work site has no habitat for amphibian species.

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 proposal would limit plant removal, pruning, and other disturbance to that required for construction. Construction would remove four street trees and temporarily remove turf or other landscaped areas. Damaged turf would be restored to pre-project conditions following construction, as directed by SDOT. Removed street trees would be replaced as directed by SDOT.

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 utilized for the existing sewer and storm systems.

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

The proposal does not involve building structures or planting vegetation that would block access to the sun for adjacent properties. Four street trees would be permanently removed, including one 28-inch diameter horse chestnut (*Aesculus hippocastanum*) and three Persian ironwoods (*Parrotia persica*) with diameters of up to 2 inches. The horse chestnut already blocks adjacent properties' access to solar energy. Removed street trees would be replaced with new street trees, as directed by SDOT. Depending on the species selected, the new street trees could block adjacent properties' potential use of solar energy over time.

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 work site is not known to have environmental contamination. However, it is possible contamination of soil or groundwater associated with past uses or activities on or near the work 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 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 this location.

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

SPU or its 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 the site during construction work at that site, and all 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, SPU or its contractor would use standard operating procedures and best management practices 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. Short-term noise from construction equipment would be limited to the allowable maximum levels of applicable laws, including the City of Seattle's Noise Control Ordinance (SMC Chapter 25.08.425—Construction and Equipment Operations). Within the allowable maximum levels, SMC 25.08 permits noise from construction equipment between the hours of 7 a.m. and 7 p.m. weekdays, and 9 a.m. and 7 p.m. weekends and legal holidays. The completed Project would generate no additional noise from equipment used for operation or maintenance.

(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 during construction and operation, except for during any 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 work site is in City-owned street right-of-way. Adjacent land uses are multi-family and single-family residential. The work would not change land uses on nearby or adjacent properties. However, the proposal could result in short-term, temporary street closures and/or detours. Those closures and detours would be experienced by individuals who live, work, or visit destinations on or near the work site.

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 area 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?

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 work site.

c. Describe any structures on the site.

Nearby structures include residential buildings, street pavements and utility and transportation structures such as light poles and street signs. Nearby structures are not associated with the Project and would not be affected.

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

The Project would not demolish any aboveground structures.

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

The Project area is Low-rise Residential.

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

The Project area is designated Residential.

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

The site is not in a Shoreline Management district.

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

As mapped by the City of Seattle (http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2) the work site is not in any environmentally critical areas.

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 proposal 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 proposal 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 proposal 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 street right-of-way actively used for vehicular transport purposes as well as walking, jogging, biking, dog-walking, and so forth. It is in an area with regular pedestrian traffic due to the proximity to Garfield High School and Playfield.

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

The proposal would not permanently displace existing recreational uses. Access to streets and parking areas affected by construction would be more challenging during construction, but SPU would require the 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 work site 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 many buildings and structures near the work site that are older than 45 years and not listed in or determined to be eligible for listing in national, state, or local preservation registers.

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 adjacent to the work site. However, according to the Washington Information System for Architectural and Archaeological Records Data (WISAARD) predictive model based on environmental factors, the work location is in an area with a Moderate rating for detecting archaeological resources. No cultural resource surveys

were conducted for the proposal. No known archaeological materials or cemeteries have been found in or near the work site.

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 work site was checked against the following resources on February 18, 2025:

Seattle Department of Neighborhoods Landmark Map: http://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/landmarks/landmarks-map

Seattle Department of Neighborhoods Historic Resources Survey Database: http://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/historic-resources-survey #historicresourcessurveydatabase

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 disturb previously disturbed and filled upland areas. Proposed work would not affect buildings or known cultural resources; none of this portion of SPU's drainage system is considered historically or culturally important. The work's location on previously disturbed and filled ground importantly reduces the chance of encountering contextually significant archaeological materials. However, given the Very Moderate rating for potentially encountering archaeological materials, the Project would have an approved inadvertent discovery plan onsite and in effect during all construction and ground-disturbing activities.

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 work location is in a City-owned street right-of-way. Staging areas would be on existing paved surfaces in street rights-of-way. This area of E Jefferson St is classified by SDOT as a collector arterial. It is also a King County Metro electrified

(trolley) route, and an area with regular pedestrian traffic due to the proximity to Garfield High School and Playfield.

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 location is served directly by public transit provided by King County Metro. Metro bus routes 3, 4, 193, 302, 303, and 322 operate on E Jefferson St through the work 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 panels, curbs, traffic aprons, 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 proposal would not involve use of water, rail, or air transportation.

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

No long-term additional traffic would result from the completed Project. Transport of materials and equipment during construction would generate an estimated 150 round trips. The completed Project is not anticipated to require any maintenance and would not generate any round trips during its service life.

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 work site 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 construction 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 construction, 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 proposal is not expected to create an increased need for public services. The Project would be required 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 to accommodate emergency access. No mitigation is being proposed because there would be no impacts to 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.

No interruptions of utilities or services are anticipated during construction. No new utilities are being proposed. The effect of this proposal would extend the life of an existing drainage asset and minimize risk of additional failure.

C. SIGNATURE

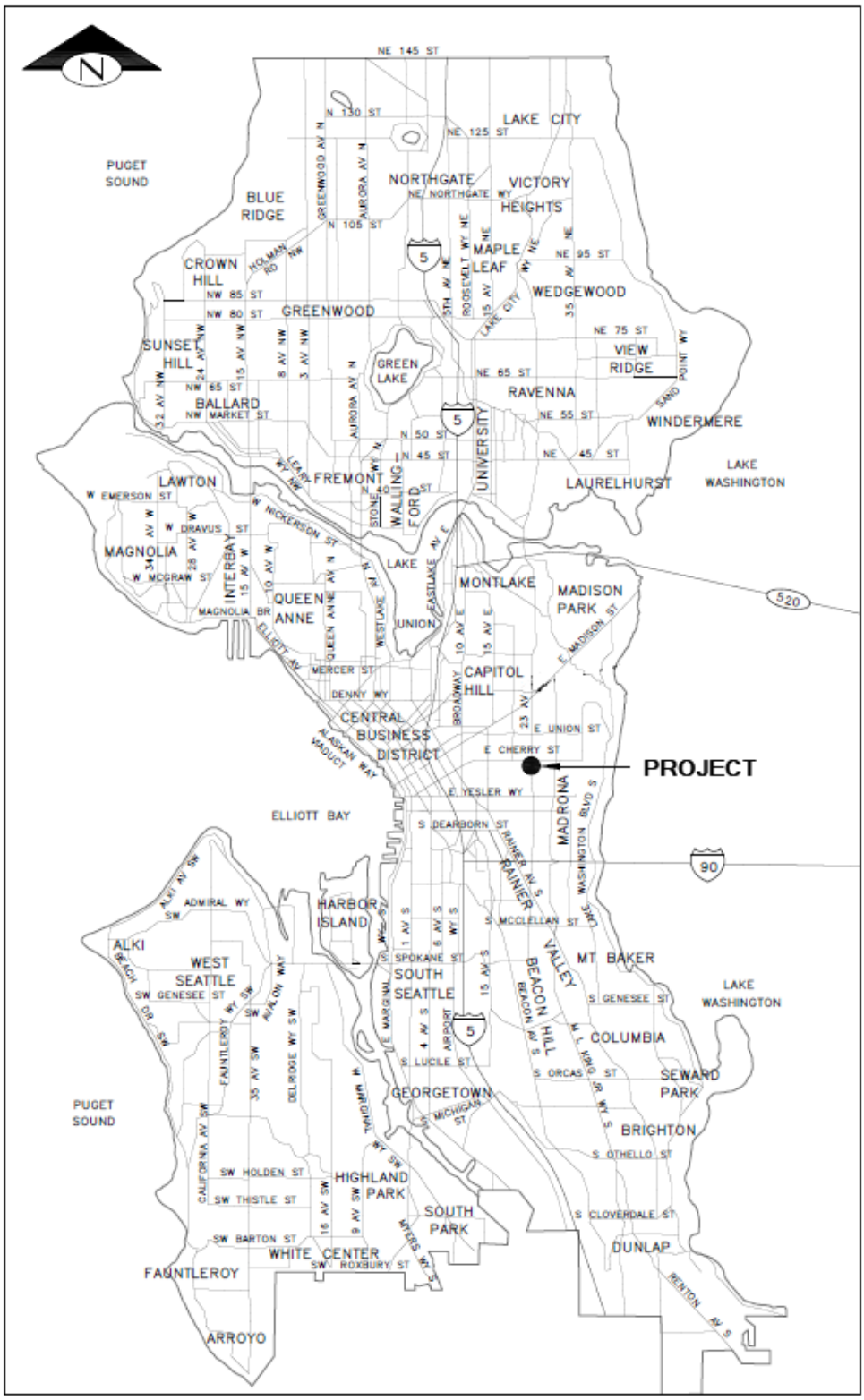
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Samantha Menathy Digitally signed by Samantha Menathy Date: 2025.03.09 18:50:27 -07'00'

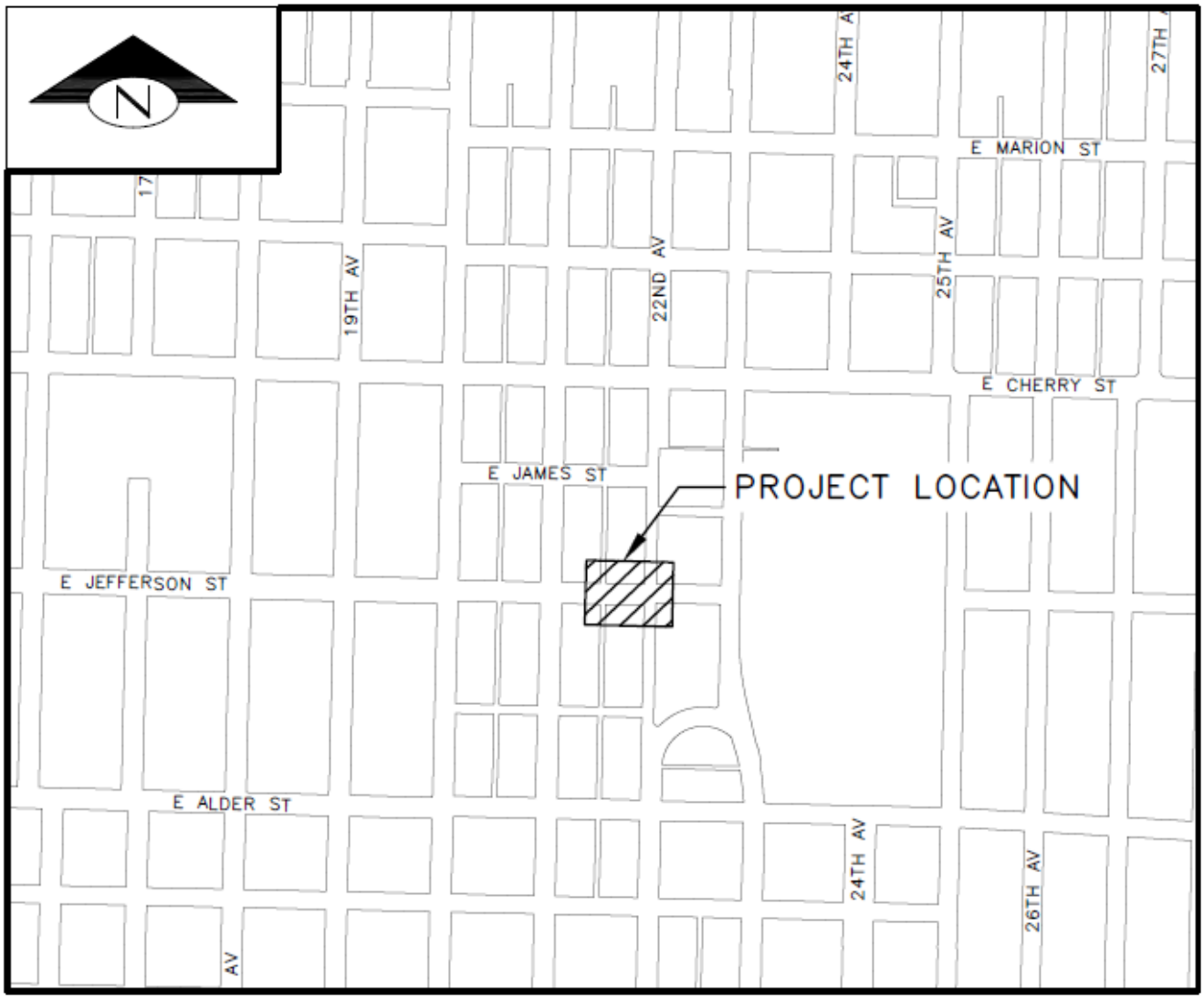
Samantha Menathy, Project Manager

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 ($MTCO_2e$) Embodied	Energy	Transportation	Lifespan Emissions ($MTCO_2e$)
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	50			0
Concrete or Asphalt Pad (50 $MTCO_2e$ per 1,000 sq ft of pavement 6 inches deep)		1,500 SF	50			75
					TOTAL Section II Pavement	

Section III: Construction

	Emissions ($MTCO_2e$)
(See detailed calculations below)	
TOTAL Section III Construction	**12.92**

Section IV: Operations and Maintenance

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

TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT ($MTCO_2e$)	**87.97**

Attachment C: Greenhouse Gas Emissions Worksheet, continued

Section III Construction Details		
Construction: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
excavator	420	60 hours x 7 gallons/hour (345 hp engine)
concrete truck	10	3 working days x 1 round trip/day x 20 miles/round trip ÷ 6 mpg
asphalt truck and compactor	10	3 working days x 1 round trip/day x 20 miles/round trip ÷ 6 mpg
Dump truck and pup	6	10 round trips x 30 miles/round trip ÷ 5mpg
front-end loader	280	40 hours x 7 gallons/hour (345 hp engine)
support truck	17	5 working days x 1 round trip/day x 20 miles/round trip ÷ 6 mpg
Subtotal Diesel Gallons	743	
GHG Emissions in lbs CO_2e	19,726.65	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	8.95	1,000 lbs = 0.45359237 metric tons

Construction: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Pick-up Trucks or Crew Vans	360	60 working days x 3 vehicles x 2 round-trip/day x 20 miles/round trip ÷ 20 mpg
Subtotal Gasoline Gallons	360	
GHG Emissions in lbs CO_2e	8,748	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	3.97	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	19,726.65	8.95
Gasoline	8,748	3.97
Total for Construction	28,474.65	**12.92**

Section IV Long-Term Operations 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		