SEATTLE PUBLIC UTILITIES
SEPA ENVIRONMENTAL CHECKLIST

This SEPA environmental review of Seattle Public Utilities' NE 124th St Drainage Project has been conducted in accord 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:

NE 124th Street Drainage Project

2. Name of applicant:

Seattle Public Utilities (SPU)

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

Alissa Lee, Project Manager
Seattle Public Utilities
P.O. Box 34018
Seattle, WA 98124-4018
206-684-8621
Alissa.Lee@seattle.gov

4. Date checklist prepared:

May 15, 2019

5. Agency requesting checklist:

Seattle Public Utilities (SPU)

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

Project construction is scheduled for spring of 2019 and is anticipated to require approximately three 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 planned future storm drainage additions related to 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 or will be prepared related to this proposal.

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 any pending applications for government approvals of other proposals that directly affect the property covered by this proposal.

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

- Seattle Department of Transportation (SDOT), Street Use Permit
- Washington Department of Fish & Wildlife (WDFW), Hydraulic Project Approval

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.

The purpose of this proposed project is to address uncontrolled surface flow in the vicinity of 4269 NE 124th Street in the City of Seattle's Cedar Park neighborhood. Two separate ditch and culvert systems currently convey stormwater east along each side of Northeast 124th Street and discharge into the unopened right-of-way at the east end of the road. The majority of the stormwater runoff entering the unopened right-of-way was observed to be from the southern ditch and culvert system. The uncontrolled runoff continues down the unopened right-of-way, causing erosion and conveying a significant amount of sandy material to the downstream drainage structures near the intersection of Northeast 125th Street and Riviera Place Northeast. Attachments A and B illustrate the project vicinity and location, respectively.

SPU is proposing to construct and operate drainage system improvements to collect and safely convey stormwater from Northeast 124th Street towards the downstream drainage structure near Northeast 125th Street and Riviera Place NE. Attachment C illustrates the proposed improvements.

SPU would install one Type 240C catch basin at the east end of NE 124th Street and would connect it to the existing junction box structure near 4269 NE 124th Street with 12 feet of 12-inch diameter ductile iron pipe. (See Attachment D for photos showing the location of the junction box structure.) SPU would also install approximately 380 feet of 12-inch diameter fused High-density polyethylene (HDPE) pipe that would convey stormwater from the junction box down the unopened right-of-way to the downstream drainage structures. The HDPE pipe would transition from buried to surface-mounted as it exits the slope approximately mid-way downhill and would terminate just upstream of the downstream drainage structure. The HDPE pipe would have a dissipation tee end.

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 project is located in the street right-of-way of Northeast 124th Street near 4269 NE 124th St and the unimproved right-of-way that begins immediately northeast of the roadway and continues northeast to Northeast 125th Street. This is in the Cedar Park neighborhood of North Seattle, City of Seattle. Attachments A and B illustrate the project vicinity and location, respectively.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: *[Check the applicable boxes]*

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

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

The steepest slope in the project area is approximately 73 percent.

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

The general geologic condition of the Puget Sound region is a result of glacial and non-glacial activity that occurred over the course of millions of years. Review of the geologic map covering the project location (Troost et al. 2005, available at http://pubs.usgs.gov/of/2005/1252/) indicates the project area is underlain primarily by deposits of pre-Fraser glaciation age, described as interbedded sand, gravel, silt, and diamicts of indeterminate age and origin. However, urban development and buried utility construction at and near each project site over the last 100 years have resulted in a predominance of disturbed native soils/sediments, cut slopes, and large placements of fill material. The project site does not contain any agricultural land of long-term commercial significance.

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

Yes, erosion and voiding have been observed along the unopened right-of-way northeast of the east end of Northeast 124th Street, especially along the steep slope portion.

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.

Construction would include excavation, grading, and filling necessary to install and connect the catch basin and HDPE pipe. The total volume of excavation is estimated to be no more than 14 cubic yards; total volume of filling is estimated to be no more than 14 cubic yards. Fill materials in the street right-of-way would include Type 17 select backfill from SPU stockpiles and asphalt. Total area of disturbed ground is estimated to be no more than 61 square feet.

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

Project construction could result in erosion and sedimentation during the installation of the HDPE pipe along the unopened right-of-way. Ground disturbance would be minimized and temporary erosion and sediment control best management practices (BMPs) would be deployed, inspected, and maintained as needed.

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

The proposed project would demolish approximately 187 square feet of currently existing impervious surface and replace it with the same area of impervious surface (asphalt). There would be no new impervious surfaces. No current pervious surfaces would be replaced with new impervious surfaces.

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

BMPs would be used to protect the existing stormwater drainage systems and to minimize erosion and sedimentation. BMPs (as identified in the City of Seattle's Stormwater Code SMC 22.800 through 22.808, Director's Rule: DWW-200 SPU/17-2017 SDCI, and Volume 2 Construction Stormwater Control Technical Requirements Manual) would be used to manage stormwater runoff, construction disturbance, and erosion as needed during construction. Also, all work would be required to be performed with an approved construction erosion and sedimentation control plan (CESC) and stormwater pollution prevention plan (SWPPP).

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.

Construction equipment would include hand-held power tools, gasoline and diesel-powered compressors and generators, and gasoline and diesel-powered vehicles. Due to the combustion of gasoline and diesel fuels, these tools would generate greenhouse gas emissions (GHG) such as oxides of nitrogen and oxides of carbon, as well as particulate matter and smoke, uncombusted hydrocarbons, hydrogen sulfide, and water vapor. Other emissions during construction may include dust. These effects are expected to be localized, temporary, and minimized. The completed project would not generate odors.

The project would produce GHGs in three ways: embodied energy in materials to be installed on the project; energy expended through construction activity (especially as described above); and energy expended during regular operation, maintenance, and monitoring activities throughout the anticipated 50-year lifespan of the installed project.

Total GHG emissions for the project are estimated to be 13.1 metric tons of carbon dioxide emission (MTCO2e). The GHG emissions calculations are shown in Attachment E and summarized in the table below. One metric ton is equivalent to 2,205 pounds.

The project would demolish and remove existing asphalt surfaces. The estimated volume of replacement asphalt and concrete is approximately 3.46 cubic yards, which is estimated to embody 9.35 MTCO2e. Embodied energy in other materials (such as aggregate bedding, pipe material, and so forth) used in this project has not been estimated as part of this SEPA environmental review due to the difficulty and inaccuracy of calculating those estimates.

The project would generate GHG emissions during the construction period through the operation of diesel- and gasoline-powered equipment, and in the transportation of materials, equipment, and workers to and from the site. The estimates provided are based on assumptions for typical numbers of vehicle operations to execute the work; see Attachment E for more information. Construction activities would generate an estimated 3.14 MTCO2e.

The project would also generate GHG emissions through the operation, maintenance, and monitoring of the project. The estimated emissions are based on an assumed life expectancy of 50 years. The estimated average annual GHG emissions generated from operations, maintenance, and monitoring is 0.6 MTCO2e.

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	20,613.22	9.35
Construction Activities (Diesel)	1,327.50	3.10
Construction Activities (Gasoline)	0	0.05
Long-term Maintenance (Diesel)	28,873.42	0.60
Long-term Maintenance (Gasoline)		0
Total GHG Emissions		13.10

[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.

No off-site sources of emissions or odors are known that would affect the 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 federal, state, and local emission control criteria and City of Seattle construction practices. These would include requiring contractors to use BMPs for construction methods, 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.

Yes, the proposed project area includes a wetland, classified as PEM/FOB (Freshwater Emergent/Forested), located approximately 225 feet west of Lake Washington.

(**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.**

Yes, the proposed project would require work (installation of the HDPE pipe) through the wetland (Attachment C).

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

No fill or dredge material would be placed in or removed from surface waters or wetlands.

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

Surface water would be rerouted to adjacent drainage structures.

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

The proposal does not lie within a 100-year floodplain.

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

No part of the proposed work involves any discharges of waste materials to surface waters. However, several construction activities such as sawcutting, concrete pouring and handling, etc., would generate pollutants that could potentially enter local drainage conveyance systems. Non-sediment pollutants that may be present during construction include:

- Petroleum products including fuel, lubricants, hydraulic fluids, and form oils
- Paints, glues, solvents, and adhesives
- Concrete and concrete washwater
- Chemicals associated with portable toilets.

Procedures to prevent and control pollutants, including hazardous materials such as hydrocarbons and pH-modifying substances, would be described in the project's spill prevention, control, and countermeasures (SPCC) plan.

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.

No groundwater withdrawals are planned. If dewatering of excavated deep wells and trenches is necessary during construction, collected water would be managed according to the proposed work's SWPPP. Quantities of water potentially collected by dewatering are unknown. No other ground water withdrawals or discharges are anticipated.

(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.

This project would not discharge waste material from septic tanks or other sources into 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.

During construction, BMPs would be used to protect the existing stormwater drainage system and to minimize erosion and sedimentation. BMPs (as identified in the City of Seattle's Stormwater Code SMC 22.800 through 22.808, Director's Rule: DWW-200 SPU/17-2017 SDCI, and Volume 2 Construction Stormwater Control Technical Requirements Manual) would be used to manage stormwater runoff, construction disturbance, and erosion as needed during construction. Also, all work would be required to be performed with an approved CESC and SWPPP.

During construction, when the new components are being connected to the existing drainage system, the project would use a pump and bypass system to divert the existing culvert flows into the new catch basin.

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

No part of the proposed work involves any discharges of waste materials to surface or ground waters. However, several construction activities such as sawcutting, concrete pouring and handling, etc., would generate pollutants that could potentially enter local drainage conveyance systems. Non-sediment pollutants that may be present during construction include:

- Petroleum products including fuel, lubricants, hydraulic fluids, and form oils
- Paints, glues, solvents, and adhesives
- Concrete and concrete washwater
- Chemicals associated with portable toilets.

Procedures to prevent and control pollutants including hazardous materials, such as hydrocarbons and pH-modifying substances would be described in the project's SPCC plan.

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

Once completed, the proposed work would not alter or otherwise affect surface drainage patterns along Northeast 124th Street. Runoff would continue to run through the adjacent unopened right-of-way, but would be contained within the HDPE pipe.

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

BMPs would be used to protect the existing stormwater drainage system and to minimize erosion and sedimentation. BMPs (as identified in the City of Seattle's Stormwater Code SMC 22.800 through 22.808, Director's Rule: DWW-200 SPU/17-2017 SDCI, and Volume 2 Construction Stormwater Control Technical Requirements Manual) would be used to manage stormwater runoff, construction disturbance, and erosion as needed during construction. Also, all work would be required to be performed with an approved CESC and SWPPP.

4. Plants

a. Types of vegetation found on the site: *[check the applicable boxes]*

☒ Deciduous trees:	☐ Alder	☒ Maple	☐ Aspen	☐ Other: (identify)
☒ Evergreen trees:	☒ Fir	☒ Cedar	☐ Pine	☒ Other: Western hemlock
☒ Shrubs				
☒ Grass (turf)				
☐ 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: (identify)
☒ Other types of vegetation: Ivy, Ferns				

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

The proposed work would limit plant removal, pruning, and other disturbance to that required for project construction. A portion of the project site is located on paved surface in the street right-of-way outside of street tree canopy drip-lines and would disturb no vegetation. Project construction would not remove any trees or shrubs.

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

According to a review of the Washington Department of Natural Resources (WDNR) Natural Heritage Program's document called "Sections that Contain Natural Heritage Features, Current as of March 6, 2019" (accessed at www.dnr.wa.gov), there are no documented occurrences of sensitive, threatened, or endangered plant species at or near the project site. No federally-listed endangered or threatened plant species or State-listed sensitive plant species are known to occur within Seattle's municipal limits. The project site has been intensively 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. There is no habitat for threatened or endangered plants.

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

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

According to King County, no noxious weeds or invasive plant species are known to be on the project site (https://gismaps.kingcounty.gov/iMap/).

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: *[check the applicable boxes]*

Birds:	☒ Hawk	☒ Heron	☒ Eagle	☒ Songbirds
☒ Other: crow, pigeon				
Mammals:	☐ Deer	☐ Bear	☐ Elk	☐ Beaver
☒ Other: possum, raccoon, squirrel				
Fish:	☐ Bass	☐ Salmon	☐ Trout	☐ Herring
☐ Shellfish	☐ Other:			

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

There are no known Endangered Species Act-listed species or designated critical habitat on or adjacent to the proposed site.

Based on a check of the Washington Department of Fish and Wildlife's "Priority Habitat Species on the Web" database on March 6, 2019 there are no mapped State-listed threatened or endangered species near the proposed site.

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

Seattle is located 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. Lake Washington is approximately 220 feet to the east and is an important water migration route for many animal species.

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

The project is not proposing measures to preserve or enhance wildlife because there are no anticipated impacts to wildlife.

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 energy would be required to meet the constructed project's energy needs.

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 include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, 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 had industrial or commercial land uses that may have resulted in contamination of soil materials.

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

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

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

Construction activities such as sawcutting, concrete pouring and handling, etc., would generate pollutants that could potentially enter local drainage conveyance systems. Non-sediment pollutants that may be present during construction include:

- Petroleum products including fuel, lubricants, hydraulic fluids, and form oils
- Paints, glues, solvents, and adhesives
- Concrete and concrete washwater
- 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.

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

No special emergency services 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 location.

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

The construction contractor would be required to develop and implement a SPCC to control and manage spills during construction. During construction, the contractor would use standard operating procedures and BMPs identified in the City of Seattle's Stormwater Code and Manual (Title 22, Subtitle VIII of the SMC and Directors' Rules DWW-200 SPU/17-2017 SDCI) to reduce or control any possible environmental health hazards. Soils contaminated by previous land uses or 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.

As required by the Washington Department of Labor and Industries (WAC 296-843), a Health and Safety Plan would be prepared by SPU prior to work commencing. The plan would address proper employee training, use of protective equipment, contingency planning, and secondary containment of hazardous materials.

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 project 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 10 p.m. weekdays, and 9 a.m. and 10 p.m. weekends and legal holidays. It is expected that construction would take no more than three working days to complete. The completed project would generate no additional noise from equipment used for operation or maintenance.

(2) 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 proposed work would be located in unimproved right-of-way and improved public right-of-way used for vehicle and pedestrian travel. Adjacent property uses are single-family residential. The project would not affect current land uses on nearby or adjacent properties.

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

The project site has not been recently used for agricultural or forest land purposes.

(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.

The proposed work is associated with the existing buried drainage culvert in the street right-of-way of NE 124th Street and the junction box structure in the unimproved right-of-way near NE 125th Street and Riviera Place NE. Adjacent property uses are single-family residential. Utilities are located in the street and unimproved (shoulder) rights-of-way.

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?

Residential, Single-family 7,200 (SF 7200)

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

Single Family Residential Area

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

The project site is located in an Urban Residential shoreline environment, as identified and mapped by the Seattle Department of Construction and Inspections.

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

Yes, the project site is located within a steep slope (40% average), wetland, and potential slide area (see Attachment C).

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 be 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.

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?

The 12-inch diameter HDPE pipe laid on the ground surface in the unimproved right-of-way would extend approximately 13.20 inches above the ground.

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 street lights are proposed or required. During construction, if an emergency situation calls for 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 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?

There are no parks or other designated recreational opportunities located in the immediate vicinity of the project site. However, part of the project is located in the street right-of-way used for informal recreational activities such as dog-walking, walking, jogging, and bicycling.

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

The proposed work would not permanently displace any existing recreational uses. Access to the streets affected by project construction would be more challenging, but SPU would require the project contractor to maintain safe pedestrian and vehicle access at all times. Temporary closures or detours affecting vehicle and pedestrian routes/access may be required.

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

Temporary closures or detours affecting vehicle and pedestrian routes/access may be required. The project would attempt to make those closures and detours as brief as possible. Project notifications through website updates, emails, and mailings would provide affected residents with limited advance notice regarding temporary street and sidewalk closures and detours.

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 places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site. To determine if National Register or State of Washington Heritage properties are in or adjacent to the project area, the project location was checked against the following registers on April 2, 2019.

- City of Seattle Landmarks http://www.cityofseattle.net/neighborhoods/preservation/landmarks_listing.htm
- Washington Heritage Register and National Register of Historic Places and WISAARD database https://dahp.wa.gov/historic-preservation/find-a-historic-place

While the WISAARD database indicates historic property reports have been submitted for various structures near the project location, none of these registers recorded any places or objects formally listed on, or proposed for, national, state, or local preservation registers on or adjacent to the project location. No architectural inventory is required for this project because no structures would be demolished or altered.

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.

According to WISAARD, there are no such cultural resources at or near the project 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 properties are in or adjacent to the project site, the project location was checked against the following registers on April 2, 2019:
• Washington Heritage Register and National Register of Historic Places: http://www.dahp.wa.gov/historic-register
• WISAARD database: https://dahp.wa.gov/historic-preservation/find-a-historic-place

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 not affect buildings or known cultural resources. Only portions of SPU's drainage system would be affected. None of those objects are considered historically or culturally important. Also, the proposed work is located on previously disturbed and filled upland area. The work's location on previously disturbed and filled ground reduces the chance of encountering contextually significant archaeological materials. Work crews would be trained to recognize archaeological materials should they be discovered. Should evidence of cultural artifacts or human remains, either historic or prehistoric, be encountered during excavation, work in that immediate area would be suspended and the find would be examined and documented by a professional archaeologist. Decisions regarding appropriate mitigation and further action would be made at that time.

14. Transportation

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

The project would occur on existing, improved street right-of-way for NE 124th Street.

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 proposed project would not affect public transportation. The nearest bus stop (Route 75) is near NE 123rd Street and Sand Point Way SE, approximately 880 feet from the proposed project location.

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

The completed project would neither create nor eliminate any parking spaces.

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

The project would restore all demolished street surfaces to pre-construction conditions or better. No new roads or streets would be constructed as part of the project.

e. 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 near water, rail, or air transportation.

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

Project construction would generate about 23 vehicle round-trips due to workers and materials being transported to and from the site during the estimated total 3 workday construction period. Most of those trips would occur during weekend days (between 8 am and 9 pm) but trips may occur at other times including weekdays. The completed project would generate an estimated total of 50 vehicle round-trips related to the on-going routine operation, maintenance, and monitoring over the project's 50-year lifespan. Numbers of vehicular trips and peak volumes are not expected to change because of the completed project.

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

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

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

The following measures would be used to reduce or control transportation impacts:

- SPU would require the construction contractor to submit a traffic control plan for approval and enforcement by SPU and the Seattle Department of Transportation.
- SPU would conduct public outreach before and during project construction to notify residents, local agencies, King County 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 and vehicle access to private properties may not be available at all times during construction, but temporary closures would be minimized, and detour routes would be properly and clearly signed.
- Alternative routes for pedestrians, bicyclists, and those with disabilities would be identified and clearly signed.

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 project would not create an increased need for public services.

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

No impacts on public services are anticipated and no mitigation measures are proposed.

16. Utilities

a. Check utilities available at the site, if any: *[check the applicable boxes]*

☐ None
☒ Electricity ☒ Natural gas ☒ Water ☒ Refuse service
☒ Telephone ☒ Sanitary sewer ☐ Septic system
☒ Other: stormwater drainage; power; cable

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The completed project is anticipated to enhance the life and serviceability of a section of the City of Seattle's stormwater drainage conveyance system and would be owned, operated, and maintained by SPU. Construction is not expected to interrupt, relocate, or reconstruct other utilities such as sewer, water services, or natural gas. However, inadvertent damage to underground utilities could occur during construction. While such incidents do not occur frequently, they could temporarily affect services to customers served by the affected utility while emergency repairs are made. No other construction-related interruptions to utility services are expected.

C. SIGNATURE

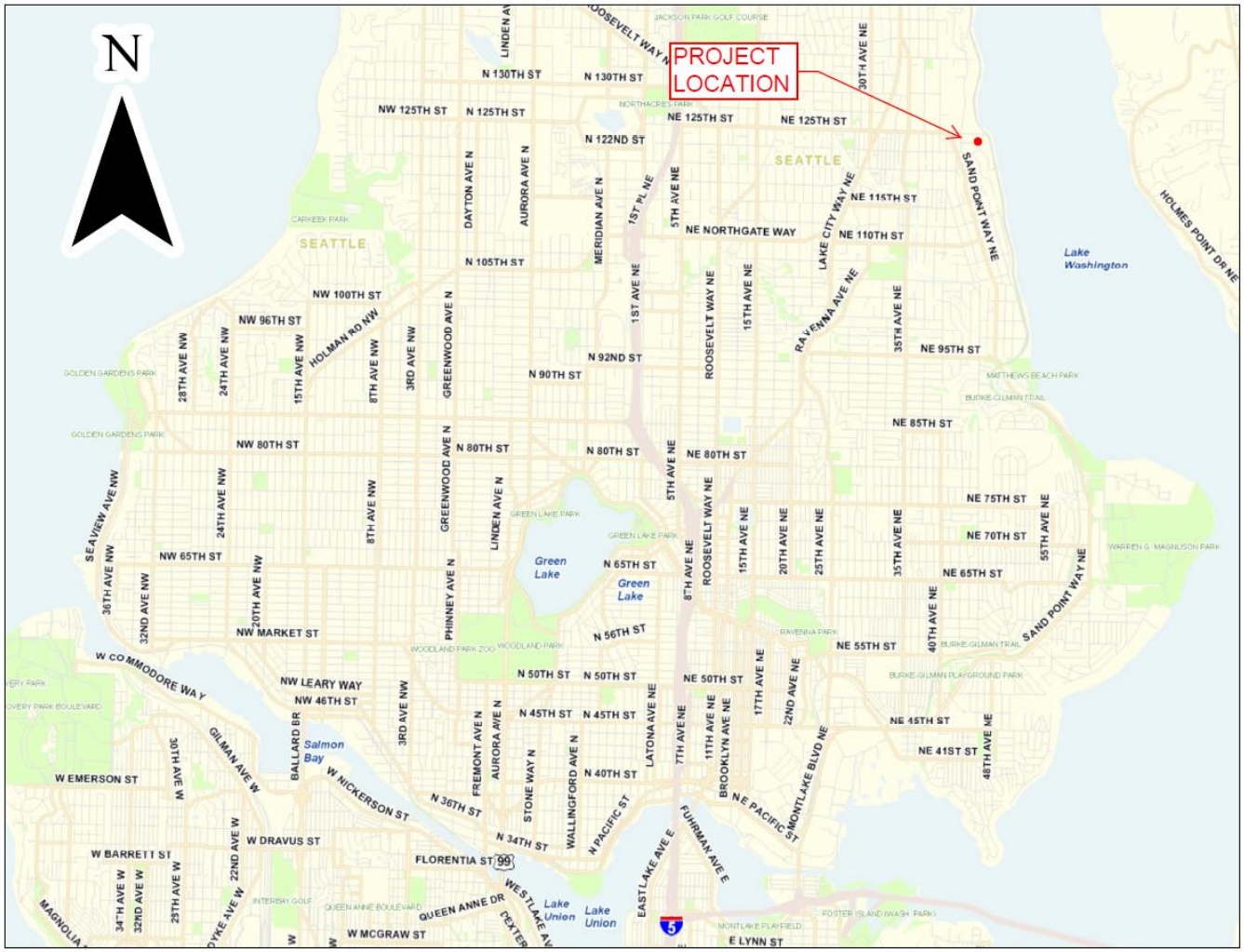
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Alissa Lee Date: 5/15/19

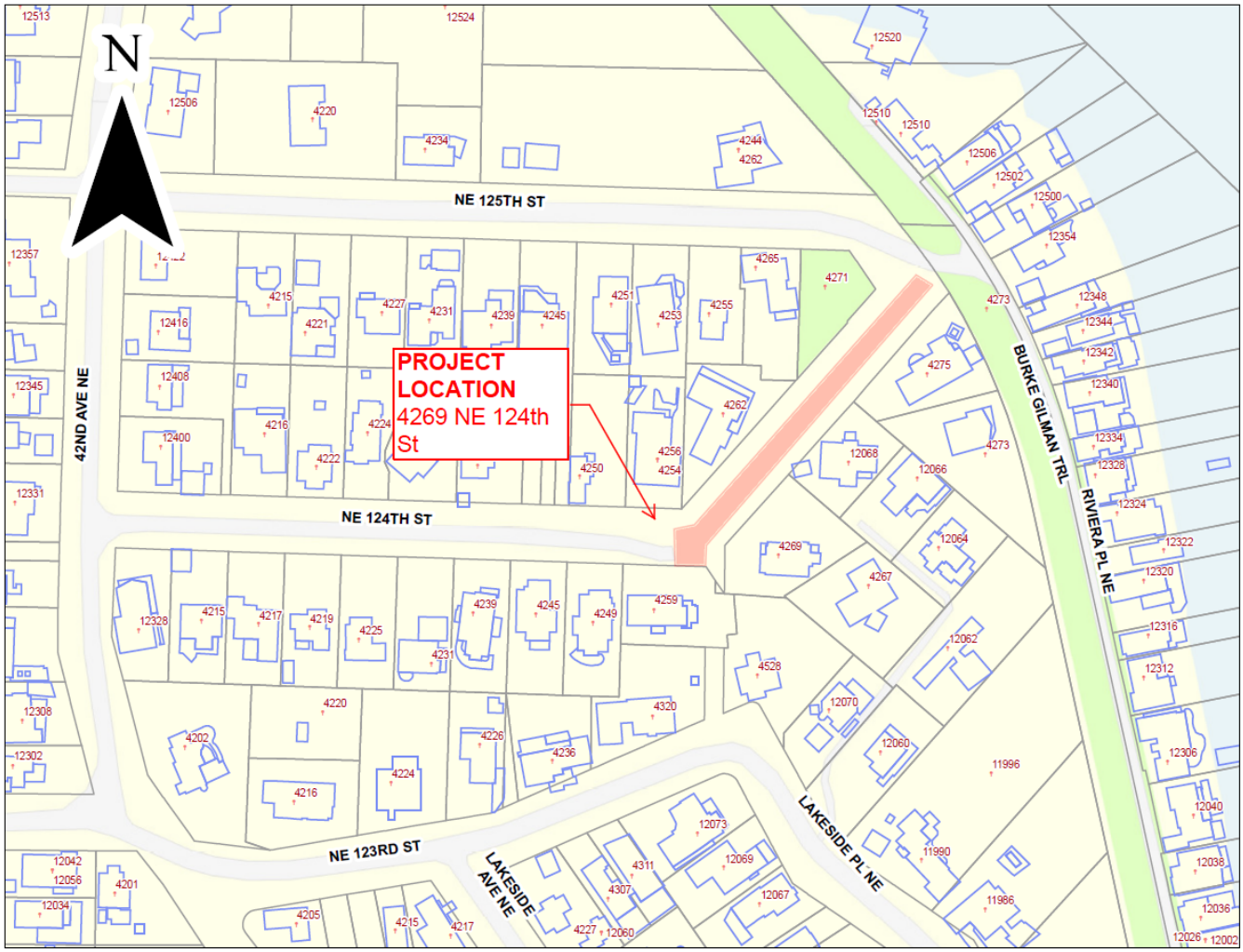
Alissa Lee
Project Manager

Attachment A – Vicinity Map
Attachment B – Site Map
Attachment C – Site Plan
Attachment D – Site Photos
Attachment E – Greenhouse Gas Emissions Worksheet

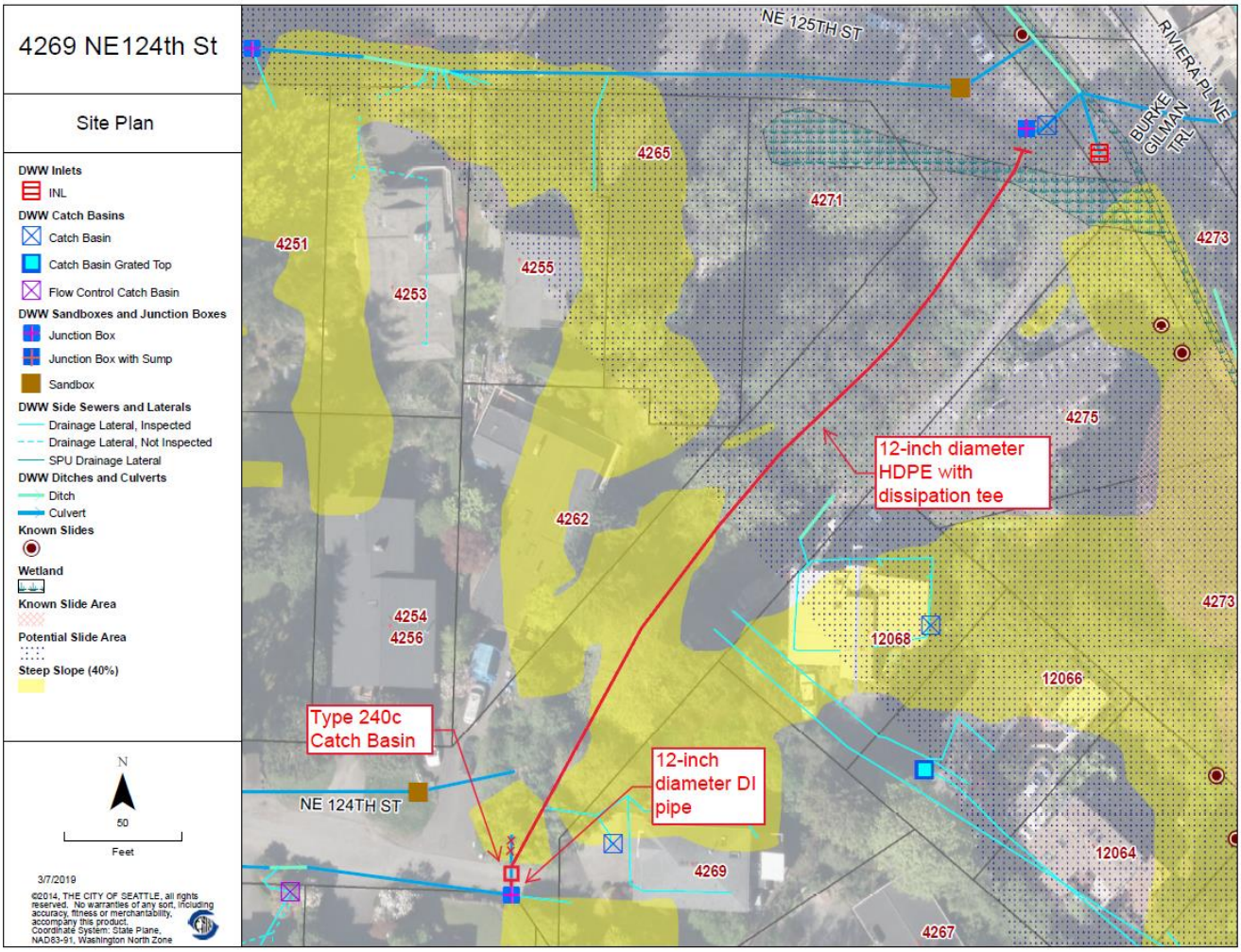
Attachment A – Vicinity Map



Attachment B – Site Map



Attachment C – Site Plan



Attachment D – Site Photos

Figure 1. Looking towards the east end of NE 124th Street, where the new catch basin will be installed.

Figure 2. Looking towards the east end of NE 124th Street, where the new catch basin will be installed and reconnected to the existing junction box.

Attachment E – Greenhouse Gas Emissions Worksheet

Section I: Buildings						
			Emissions Per Unit or Per Thousand Square Feet ($MTCO_2e$)			
Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	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 (street, sidewalk, asphalt patch) or concrete pad, in thousands of square feet (50 $MTCO_2e$/1,000 sq. ft. of pavement at a depth of 6 inches)		187 sq ft, 6 inches thick (3.46 cubic yards)				**9.35**
					TOTAL Section II Pavement	**9.35**

Section III: Construction	
(See detailed calculations below)	**Emissions ($MTCO_2e$)**
TOTAL Section III Construction	**3.14**

Section IV: Operations and Maintenance	
(See detailed calculations below)	**Emissions ($MTCO_2e$)**
TOTAL Section IV Operations and Maintenance	**0.60**
TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT ($MTCO_2e$)	**13.10**

Attachment E – Greenhouse Gas Emissions Worksheet, continued

Section III Construction Details		
Construction: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Excavator	252	36 hours x 7 gallons/hour (345 hp engine)
Dump Truck	5	5 round trips x 5 miles/round trip ÷ 5 mpg
Subtotal Diesel Gallons	257	
GHG Emissions in lbs CO_2e	6,823.35	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	3.10	1,000 lbs = 0.45359237 metric tons

Construction: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Pick-up Trucks or Crew Vans	4.5	3 workdays x 3 trucks x 2 round-trip/day x 5 miles/round-trip ÷ 20 mpg
Subtotal Gasoline Gallons	4.5	
GHG Emissions in lbs CO_2e	109.35	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	0.050	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	6,823.35	3.10
Gasoline	109.35	0.05
Total for Construction	6,932.70	**3.14**

Section IV Long-Term Operations and Maintenance Details		
Operations and Maintenance: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Vactor Truck (maintenance)	50	50 events (once annually for 50 years) x 5 miles/round-trip x 1 round-trip/event ÷ 5 mpg
Subtotal Diesel Gallons	50	
GHG Emissions in lbs CO_2e	1,327.50	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	0.60	1,000 lbs = 0.45359237 metric tons

Operations and Maintenance: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
	na	na
Subtotal Gasoline Gallons	0	
GHG Emissions in lbs CO_2e	0	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	0	1,000 lbs = 0.45359237 metric tons

Operations and Maintenance Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	1,327.50	0
Gasoline	0	0
Total Operations and Maintenance	1,327.50	**0.60**