King County

ENVIRONMENTAL CHECKLIST

JAN ROAD LEVEE SETBACK PROJECT

Purpose of the Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "**do not know**" or "**does not apply**." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be a significant adverse impact.

Use of Checklist for Nonproject Proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "**does not apply**." In addition, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (PART D).

For nonproject actions, the references in the checklist to the words "**project**," "**applicant**," and "**property or site**" should be read as "**proposal**," "**proposer**," and "**affected geographic area**," respectively.

A. BACKGROUND

1. *Name of the proposed project, if applicable:*

   Jan Road Levee Setback Project

2. *Name of Applicant:*

   King County River and Floodplain Management

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

   Thomas Bannister, Senior Ecologist
   King County Water and Land Resources Division
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   Seattle, WA 98104-3855
   Phone: 206-263-6952
   tbannister@kingcounty.gov

4. *Date checklist prepared:*

   February 2021

5. *Agency requesting checklist:*

   King County Department of Natural Resources and Parks
   Water and Land Resources Division (WLRD)

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

   The construction is scheduled for Summer 2022. In-water work will occur during the Washington Department of Fish and Wildlife approved in-water work window (IWWW) which is August 1 – August 31. Other work tasks in the floodplain landward of the ordinary high-water mark will begin prior to the IWWW. Revegetation efforts will occur in fall – winter 2022.

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

   No future additional construction is related to the proposed project.

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

   - Environmental Baseline Data Collection Summary – November 2019
   - Hydrologic and Hydraulic Modeling Technical Memorandum Draft Final – January 2020
   - Existing Conditions Geomorphic Assessment Report Draft – January 2020
   - Hydraulic Analysis of Alternatives Technical Memorandum – May 2020
   - Fish Habitat Suitability Assessment – August 2020
   - Geomorphic Assessment of Alternatives Technical Memorandum – August 2020
   - Stability Evaluation and Risk Assessment CRT7 Revetment Report – September 2020
   - 30% Design Planting plan – January 2021

- Critical Areas Report – February 2021
- Technical Information Report (TIR) – Draft in Progress
- Stormwater Pollution Prevention Plan (SWPPP) – Draft in Progress
- Preliminary Basis of Design Report – February 2021
- Archaeological Monitoring Reports – November 2020

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.*

   None known.

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

    - Clean Water Act Section 404 Permit (U.S. Army Corps of Engineers)
    - Endangered Species Act (ESA) Section 7 Consultation (National Marine Fisheries Service and US Fish and Wildlife Service)
    - National Historic Preservation Act Section 106 Review
    - Hydraulic Project Approval (Washington Department of Fish and Wildlife)
    - Clearing and Grading Permit (King County Department of Local Services – Permitting Division)
    - Shoreline Substantial Development Permit or Exemption (King County Department of Local Services – Permitting Division)
    - Flood Hazard Certification (King County)

11. *Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site.*

    The King County River and Floodplain Management Section (County), as service provider to the King County Flood Control District (District), is evaluating alternatives for the Jan Road Neighborhood Improvement Project (Project). The project area is located on the left and right banks of the Cedar River between River Mile (RM) 12.9 and RM 13.4. The flood-related impacts to the neighborhood and public infrastructure have led to identification of this as a priority flood risk reduction project for the Cedar River basin in the 1993 and 2006 flood hazard management plans, and most recently included as a near-term (0-6 years) action project within the 2017 Cedar River Capital Investment Strategy (CIS).

    During Cedar River flood events of approximately a 5% annual chance (20-year return period; approximately 6,016 cfs) or greater, flows from Taylor Creek cause overtopping of the neighborhood's sole access road and result in hazardous conditions for people and impacts to property. Flooding impacting access for residents occurred most recently in February 2020 and previously in January 2009. As many as 15 residences in the immediate vicinity would be isolated during a 1% annual chance (100-year return period; approximately 9,443 cfs) flood event.

    Additionally, both the Jan Road levee (levee) on the right bank and the CRT 7 revetment (revetment) on the left bank have been repeatedly damaged by erosion and scour. Although the levee has some ability to restrain channel migration for the neighborhood's sole access road, neither the levee nor the revetment meet current engineering standards for stability. The levee, in its current alignment, concentrates and directs flow at the revetment, threatening the integrity of both and requiring costly repairs.

    The project will also provide the required mitigation for aquatic habitat impacts associated with the relocation of naturally occurring large wood within the Cedar River in 2017, in accordance with the 2017 Cedar River Wood Relocation Hydraulic Permit Approval (HPA). The HPA requires that the final

mitigation plan be developed through collaboration with King County, Washington Department of Fish and Wildlife (WDFW), and the Muckleshoot Indian Tribe Fisheries Division (MITFD).

The project will remove approximately 1,400 linear feet of the levee face rock and fill prism to provide increased flood conveyance and floodplain reconnection. The project would also include a setback levee (approximately 2,600 feet long) and conveyance improvements to reduce flooding in the Jan Road neighborhood and to prevent isolation of residents during large floods. This facility would be designed to meet current engineering standards for stability.

The project will enhance access to the Jan Road neighborhood during flood floes, up to at least the 1% ACF (9,440 cfs), by extending the levee upstream to capture a portion of overbank flows from Taylor Creek and conveying it back to the Cedar River. Safe conveyance of the remaining overbank flows from Taylor Creek through the neighborhood and floodplain will be accomplished by upgrading the existing culvert under SE 197th Place with a fish-friendly concrete box culvert.

This project will also include elements to improve natural floodplain functions and enhance aquatic habitat. The floodplain will be regraded in limited areas to reconnect it to the river. Side channels, native vegetation, and large wood would be added to the reconnected floodplain to help convey flood flows and improve instream and riparian habitat. The overall project area is approximately 23 acres.

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 plan, 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.*

Table 1. Project Location

Description	Location
Township, Range, Section	NE ¼ NW ¼, S04, T22N, R06E
Nearest City	Maple Valley, WA
County	King
WRIA	8-Cedar-Sammamish
HUC – 6th Field	171100120106 – Lower Cedar River
Parcel Numbers	042206-9079, -9003, -9076, -9055, -9027, -9094, -9102, -9025, 511140-0150
River Miles	12.9-13.4

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other.

The site is located in the Cedar River floodplain between river miles 13.2 and 13.4.

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

The floodplain site is relatively flat on which slopes range from approximately 0 to 3 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 prime farmland.

Recent and older alluvium (stream deposits) form the broad valley floor in the lower Cedar River valley. Stream deposits are primarily sand, gravel, and cobble material with occasional boulders. Project site soils are mineral soils classified as Pilchuck loamy fine sand and Puyallup fine sandy loam (NRCS 2020).

d. Are there surface indications or history of unstable soils in the immediate vicinity?

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate the source of fill.

Excavation, fill, and minor grading are necessary to remove the Jan Rd. levee, construct a new setback levee (fill), excavate a primary and a secondary side channel, install large wood structures, and grade floodplain microtopography.

Fill materials will consist of native backfill, common borrow, imported structural fill, salvaged and reused riprap, and salvaged and imported large wood.

Table 2. Summary of project removal and fill quantities.

Description	Site Removal / Fill Quantities Cubic Yards (CY)		
	Below OHWM	Above OHWM	Total
Soil Excavation	0	47,439	47,439
Topsoil Stripping	0	11,200	11,200
Rip Rap Excavation	226	724	950
Structural Excavation	0	800	800
Concrete Demolition	0	132	132
Asphalt Demolition	0	60	60
Total Removal (Cut)	**226**	**60,355**	**60,581**
Imported Ballast Fill	0	9,875	9,875
Imported Core Fill	0	1,600	1,600
Imported Crushed Rock Backfill	0	1,038	1,038
Imported Riprap	0	2,570	2,570
Imported Topsoil	0	0	0
Native Soil / Alluvium Backfill	0	24,544	24,544
Imported gravel	987	0	987
Reused Riprap	0	950	950

Description	Site Removal / Fill Quantities Cubic Yards (CY)		
	Below OHWM	Above OHWM	Total
Large Wood - Biorevetment	0	900	900
Large Wood - ELJs	1,295	247	1,542
Total Fill	**2,282**	**41,724**	**44,006**

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

Minor erosion may occur during clearing and construction since soils will be disturbed. Temporary erosion and sediment control measures and Best Management Practices such as a stabilized construction entrance, mulch berms, and plastic sheeting will minimize the potential for erosion during construction. These measures are detailed in the Temporary Erosion and Sediment Control (TESC) plan that is part of the project designs. Since the project will be constructed in usually dry summer months, the potential for sediment discharges from the site is minimal. In addition, the contractor will be required to follow the requirements in Ecology's Construction Stormwater General Permit (CSWGP) to control and reduce potential impacts from erosion.

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

Approximately 4.6 percent (1.07 acres) of the project area will be covered with impervious surfaces. Under existing conditions, approximately 8.1 percent (1.86 acres) of the project area is covered with impervious surfaces. Overall, the net reduction of impervious surfaces will be approximately -0.79 acres.

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

BMPs will be followed in accordance with the 2016 King County Surface Water Design Manual as well as general conditions and special conditions include in project permits. Specific measures to reduce and control erosion include:

- Clearing will be phased as needed seasonally and is limited to within the project area subject to Ecology's CSWGP and the project-specific Stormwater Pollution Prevention Plan (SWPPP).
- Erosion-control best management practices and controls will be implemented as part of the required temporary erosion and sediment control plan. These include covering bare soil stockpiles, surrounding the staging area with straw bales or wattles to prevent discharge of sediment-laden runoff, using mulch berms for perimeter sediment control near aquatic areas, and establishing a stabilized construction entrance.
- Heavy equipment operated within the project site will be required to stay within established and maintained access routes established by the clearing limits.
- Finished grade surfaces (pervious) will be seeded and stabilized with vegetation.
- Inwater work areas will be isolated with supersacks.

2. Air

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

Emissions from heavy construction equipment and support vehicles would occur during construction. Dust could be generated by construction equipment but would be controlled by water application and covering soil stockpiles. Any increase in emissions related to the proposed project would be temporary and primarily affect only the immediate work area. The Greenhouse Gas (GHG) Emissions Worksheet is attached to the end of this checklist.

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

No.

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

Water will be applied to disturbed surfaces and soils stockpiles will be covered during non-construction hours or when high winds are predicted. Clearing of vegetation will be minimized. Disturbed areas will be replanted with native vegetation where appropriate. Construction engines will not idle unnecessarily and will be kept in proper working order with filters and other emission control devices functional.

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

Yes. The project is located on the left and right banks of the Cedar River between river miles 12.9 and 13.4. Riverine wetlands occur adjacent to the Cedar River and within the associated floodplain. The project is just downstream of Taylor Creek's confluence with the Cedar River. A small unnamed tributary that originates in the watershed to the east of the site briefly intersects the southeast portion of the project area. The Cedar River is a tributary to Lake Washington located in WRIA 8.

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

Yes, in-water work will occur within the approved WDFW in-water work window to 1) install and remove work area isolations for constructed side channel connections to the Cedar River; 2) install and remove work area isolations to remove the Jan Road levee rock face (riprap); and 3) installing large wood structures on the Cedar River banks and wetted channel. Much of the work in the floodplain is within 200 feet of jurisdictional waters. Please see attached plan sheets (Appendix A).

3) *Estimate the amount of fill and dredge material that could 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.*

Table 4. Aquatic resource removal/fill impacts

Wetland or Waterbody	Area (sq.ft.)	Volume (CY)		Reason/Source	Impact Duration
		Removal	Fill		
Wetland 4	1,500	50	10	Concrete Box Culvert Installation	Permanent
Cedar River	3,375	226	0	Jan Rd. Levee Riprap Toe Excavation	Permanent
Cedar River	22,000	0	1,295	Large Wood Structures	Permanent
Cedar River	24,000	0	987	Imported gravel	Permanent
Total:	**50,875**	**276**	**2,292**		

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

Flow in the unnamed tributary that passes under SE 197th Place will be temporarily piped around the work area. Minimal flow (< 1cfs) is expected in this tributary during the work window. Work area isolations using clean fill sand supersacks parallel to the Cedar River shoreline will be required briefly during certain work tasks at or near the water's edge. These isolations will be installed and removed during the approved in-water work window.

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

Yes, the proposed project will occur within the FEMA regulatory floodway and 100-year floodplain (FEMA 2021).

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

The proposed project does not involve discharges of waste materials to surface waters.

b. *Ground Water:*

1) *Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities, if known.*

No, groundwater will not be withdrawn from any wells for this project. No water will be directly discharged to groundwater, however; dewatering operations as needed are likely to occur in which the discharge would be directed to the vegetated upland floodplain areas, filtered through a geotextile bag, and allowed to infiltrate.

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.

Not applicable. The proposed project will not produce liquid waste.

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, sources may include stormwater runoff from excavated soil surfaces, staging areas, and newly constructed impervious surfaces. Runoff from such sources will be contained by measures included in the project SWPPP. Approximately 1.86 acres of impervious surfaces currently exist within the 23.06-acre total project site area. Once the project is complete, 1.07 total acres of impervious surfaces will remain representing a decrease of impervious surfaces of 0.79 acre.

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

No. A spill prevention and pollution control plan will be required of the contractor to prevent such an occurrence. Construction staff will be required to maintain spill kits that would be implemented in case of inadvertent release of waste or hazardous materials including fuels, solvents, paint, asphalt cement, or uncured concrete.

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

The proposed project is a priority flood risk reduction project for the Cedar River basin, and in particular will be designed to increase the safe conveyance of flows through the Jan Road neighborhood and reduce the impacts from Taylor Creek bankfull and overbank flows. One component of the project is replacement of the existing culvert under SE 197th Place with an upgraded, fish passable box culvert.

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

Though the site is a fairly flat floodplain and construction will occur during the normally dry season, temporary erosion and sediment controls will be installed to intercept potential runoff water and suspended sediments (See Appendix A, Sheets 6-9 – TESC Sheets). In addition, the contractor will be required to adhere to the elements contained in the project Stormwater Pollution Prevention Plan (SWPPP).

4. Plants

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

☒ Deciduous trees: alder, maple, other: black cottonwood
☒ Evergreen trees: fir, cedar, pine, other:
☒ Shrubs: willow, dogwood, twinberry, salmonberry, snowberry, non-native: blackberry
☒ Grass:

☐ Pasture:
☐ Crop or grain:
☒ Wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other: non-native: reed canarygrass
☐ Water plants: water lily, eelgrass, milfoil, other
☒ Other types of vegetation: invasive/noxious

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

Vegetation will be removed where necessary to remove the existing Jan Road levee and construct the new setback levee and other floodplain improvements. The clearing limits area is 14.01 acres. Trees to remain will be flagged and protected throughout the project's construction. Approximately 256 trees, including fir, cedar, maple, and other various coniferous and deciduous species, will be removed during construction, but will be replaced as part of the planting plan. Select trees meeting specifications for the large wood structures will be salvaged and reused in proposed log structures.

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

No known threatened and/or endangered plant species are known to occur on or near the site. No known rare plants and nonvascular Species of High Conservation Value occur on or near the site.

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

The revegetation plan only includes plants native to Major Land Resource Area 2 (Willamette and Puget Valley) and seeks to improve biodiversity by including more species than currently exist in the project area. For all zones, the composition of trees ranges between 40-60 percent of the total planting area, and shrub composition ranges from 35-55 percent of the total planting area. The planting plan encourages riparian shade establishment and overhanging shrub vegetation at side channels. Seeded native groundcover species will consist of low-stature, native riparian grasses which will establish quickly in the area for erosion control, to suppress weeds, and limit vegetation maintenance needs.

5. Animals

a. Check or underline any birds or 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: corvids (crows/jays)
☒ Mammals: deer, bear (rare), elk, beaver, other: coyotes, cougar (rare)
☒ Fish: salmon, trout, herring, shellfish, other: sculpin, stickleback, suckers, dace

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

The following federally threatened fish species are known to occur in the Cedar River watershed:

- **Puget Sound Fall-run Chinook salmon (*Oncorhynchus tshawytscha*):** Chinook salmon are found in the study reach on a year-round basis and use the area for upstream and downstream migration, spawning, and juvenile rearing. A habitat suitability assessment prepared by King County found that most of the riverine habitat is low to moderate value, but some high value habitat is present.
- **Puget Sound Winter-run steelhead trout (*O. mykiss*):** Steelhead trout are found infrequently

in the study reach, and primarily use the mainstem Cedar River for upstream and downstream migration. Juvenile rainbow trout identified as rearing in backwater habitat in the study reach may contribute to steelhead runs.

- Coastal-Puget Sound bull trout (*Salvelinus confluentus*): Although bull trout are listed as occurring in the Cedar River, they are confined to areas above the Chester Morse Dam, found upstream of the study area. They are not expected to occur in the study area.

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

Yes. Numerous salmonid species, including Chinook and steelhead trout use the Cedar River to migrate upstream to spawning grounds and downstream as smolts to Puget Sound and the Pacific Ocean.

The site is also located on the Pacific Flyway and is used by waterfowl and other migratory bird species.

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

Levee removal and setback and side channel creation within the floodplain will improve the interaction between the Cedar River and adjacent floodplain in the vicinity of the Jan Road Neighborhood. Ecological functions including flood energy dissipation, additional riparian vegetation growth, sediment and debris deposition and nutrient cycling, and refuge for fish during high flows are expected to improve as a result of this action. Moreover, the overall result will be more functional fish habitat within the Cedar River and increased biological inputs from additional coverage of native riparian vegetation adjacent to the Cedar River flows. Installed wood structures will also likely create and enhance salmonid habitat in the Cedar River basin.

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

No known invasive animal species have been identified on or near the site.

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 is required by or from the proposed project for operations.

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

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Not applicable as the finished project will have no energy demand.

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.

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

No known contamination exists within the proposed project area.

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.

No known hazardous chemicals/conditions, including liquid and gas transmission pipelines exist on or beneath the ground surfaces within the project area.

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 and some future maintenance activities would require petroleum, oil, lubricants, , and other potentially hazardous materials to be transported to, temporarily stored on, and used at the project site, and would generate waste. All such materials will be handled in accordance with a Spill Prevention Control and Countermeasure Plan (SPCCP) that will be developed and implemented by the construction contractor. The SPCCP will specify how materials will be transported to the site, how they will be stored, handled, and disposed of, and will outline spill response procedures.

4) Describe special emergency services that might be required.

The completed project will not require any special emergency services.

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

The construction contractor would be responsible for the proper handling, storage, use, transport, disposal, and cleanup of hazardous substances, petroleum products, and waste. The construction contractor would be responsible for appropriately and accurately characterizing waste to determine whether it meets the criteria for hazardous waste. Safety Data Sheets for all relevant chemicals would be kept on-site and available for review by all site personnel, and all hazardous materials would be used and stored in accordance with the manufacturer’s instructions and applicable regulations.

The construction-specific Spill Prevention Control and Countermeasures Plan (SPCCP) will be prepared by the construction contractor prior to construction to ensure that the routine transport, use, or disposal of hazardous materials during construction would be done in compliance with federal, state, and local laws, ordinances, and regulations, and to help avoid and minimize potential accidents or spills during construction. The SPCCP will include a contingency plan and conform to applicable federal, state, and municipal laws, ordinances, and regulations and will detail relevant Best Management Practices. It will be implemented for the duration of the construction. The plan will be posted on-site during construction and would be distributed to all workers and managers prior to the start of construction.

b. Noise:

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

There are no sources of existing noise that affect the proposed project. The existing noise environment within the vicinity of the project site includes noise from automobiles, buses, and trucks using nearby roads and streets. No other sources of noise in the vicinity of the project are considered to be significant.

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic construction, equipment operation, other)? Indicate what hours noise would come from the site.

Noise associated with the construction of the project would be created by the temporary use of heavy machinery. Construction normally occurs during standard daylight construction hours when occasional loud noises are more tolerable. No receivers are expected to be exposed to construction noise for a long duration; therefore, any extended disruption of normal activities is not expected. Provisions will be included in the plans and specifications that require the contractor to make every reasonable effort to minimize construction noise through abatement measures such as work-hour controls and proper maintenance of muffler systems. Construction noise will occur only during the hours allowed by King County in unincorporated areas.
Normal and usual sounds created by construction are allowed during the following times: heavy equipment - 7am to 7pm weekdays, 9am to 7pm weekends; impact equipment (pile drivers, etc.) – 8am to 5pm weekdays, 9am to 5pm weekends; and all other construction activities – 7am to 10pm weekdays, 9am to 8pm weekends.

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

Construction management protocols will include the following noise mitigation measures to minimize noise impacts:

- Maintain all construction tools and equipment in good operating order according to manufacturers' specifications;
- Limit use of major excavating and earth moving machinery to daytime hours;
- To the extent practicable, schedule construction activity during normal working hours on weekdays when higher sound levels are typically present and are found acceptable. Some limited activities, such as asphalt concrete construction, will be required to occur continuously until completion;
- Equip machinery with a properly operating muffler that is free from rust, holes, and leaks; and
- Ensure the engine's housing doors are kept closed and install noise-insulating material mounted on the engine housing consistent with manufacturers' guidelines, if possible.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

The project area consists of approximately 15 low density, residential parcels and the Jan Road Levee, a flood control facility, adjacent to the Cedar River. Adjacent land uses are also low density, residences and private access roads.

b. Has the site been used for agriculture? If so, describe.

Based on past land use practices in the surrounding area, it is likely that the site was used for timber harvest, followed by farming, and subsequently by rural residential uses. The project area does not contain working farm or forest lands and therefore, no farm or forest land will be converted. The project area will not be affected by surrounding working farm or forest land normal business operations.

c. Describe any structures on the site.

Structures in the project area include single-family residential housing that surrounds much of the project area.

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

Yes, one single-family residence and appurtenant structures will be removed from the north parcel within the project area.

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

Current zoning within the site includes:

- primarily RA-10 (rural area, one DU per 10 acres)
- RA-5 (rural area, one DU per 5 acres)

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

Two designations occur within the project area:

- Rural area (ra) 2.5-10 ac/du
- King County open space system

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

Four shoreline master program designations occur within the project boundary:

- Conservancy shoreline
- Aquatic shoreline
- Rural shoreline
- Natural shoreline

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

According to King County iMap, the following critical areas are present within the project area:

- Flood hazard area
- Channel migration zones (moderate and severe)
- Seismic hazard area
- Steep slope hazard area (small southwestern portion of the project area at the CRT7 revetment)
- Critical aquifer recharge area (Category 1)
- Wetlands (Wetlands 1-4)
- Aquatic Areas (Cedar River)
- Wildlife Habitat Conservation Areas

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

None.

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

King County is purchasing an occupied single-family home found in the floodplain. The homeowner is a willing seller.

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

No unwanted displacements will occur as a result of this project.

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

Given the project's location in a floodplain, no active land uses are proposed. The site will be open to passive uses including recreation.

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

The proposed project will not impact agricultural and forest lands of long-term commercial significance since such lands are not found in the project area.

9. Housing

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

The proposed project does not provide housing.

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

One single-family dwelling will be purchased and demolished by the County. The dwelling and associated structures are consistent with the middle-income housing found in the surrounding neighborhood.

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

The proposed action is intended to protect housing during high-flow events, therefore impacts to housing are beneficial and no measures to reduce housing impacts are needed.

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 tallest proposed structure relative to the ground surface elevations within the floodplain is the proposed setback levee which will be approximately 4 to 6 feet in height.

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

The view of the floodplain would become partially obstructed from the road side of the proposed setback levee.

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

No measures are proposed to reduce or control aesthetic impacts as the impacts are considered minor and temporary in nature.

11. Light and Glare

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

Temporary emissions of light or glare may occur during construction from the use of lights on construction equipment, but such emissions would be temporary and minimal. Once construction is complete, no light or glare will result from the constructed project.

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

No light or glare is anticipated from construction of the proposed project.

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

None.

d. Describe proposed measures to reduce or control light and glare impacts, if any.

No permanent impacts from light or glare are anticipated, so no measures are proposed to reduce them.

12. Recreation

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

The Cedar River Trail follows the Cedar River adjacent to State Route 169, on the opposite side of the river from most of the project area. The trail is popular with bicyclists and skaters and provides both recreational and non-motorized commuting opportunities. Non-motorized boating, fishing, and other recreational activities occur in the Cedar River and along the Cedar River shoreline.

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

No, the proposed project will not displace any existing recreational uses.

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

The proposed project is not intended to provide recreational opportunities, nor will it limit them. The site will be open to use by fishers, hikers, bird watchers and other recreational users. Rafters float through the project reach in the summer months, but typically do not stop at the project site. Design and construction of large wood structures placed in the floodplain and main channel of the Cedar River will be completed in accordance with available large wood design guidelines, including considerations of potential recreational risks. Most of the large wood is also placed in constructed side channels which are not used by boaters in the mainstem Cedar River.

13. Historical 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.

Surveys for cultural resources, including historic resources, were completed in November, 2020. The surveys found no historic structures or structures eligible for listing in or immediately near the project area, and no further surveys or conservation measures are recommended by King County cultural resources staff.

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 were discovered during the cultural resources study conducted by Cultural Resource Consultants (CRC 2020).

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Investigations to date of the Jan Road APE (approximately 29 acres) includes 55 shovel probes and monitoring of 21 geotechnical borings conducted by CRC. Archaeological monitoring was completed by a "professional archaeologist" (RCW 27.53.030 (11)).

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.

Based on the results of the investigations to date described above, the King County Historic Preservation Program archaeologist recommended that monitoring will not be necessary for project-related ground disturbance in the project APE (P. LeTourneau, personal communication, February 1, 2021). An Inadvertent Discovery Plan (IDP) has been prepared and will be provided to the contractor for implementation throughout project construction.

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.

Access to SE 197th Place/221st Avenue SE/218th Avenue SE (Jan Road neighborhood) is off of Maxwell Road SE. This area is served by State Route (SR) 169 – Renton Maple Valley Road.

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 geographic area (Maple Valley area) is served by King County Metro Transit Route 907 Monday-Friday 8 AM to 5 PM. https://kingcounty.gov/depts/transportation/metro/schedules-maps/route/907.aspx

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

No parking spaces will be added or eliminated by the proposed project.

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

The surfaces of SE 197th Place and SE 221st Ave., both private roads, are partially paved or sealed and are likely to be damaged by construction equipment. The roads will be maintained in a useable state during construction and will be resurfaced and restored at the end of the construction period. Guardrail will be installed at the crossing of the unnamed tributary found on SE 197th Place and along the setback levee. Impacts will be temporary, and the finished road condition will be an improvement over current condition. The proposed project will improve access to the Jan Road neighborhood.

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

No water, rail, or air transportation is required by the proposed project.

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

The proposed project would have no effect on traffic or vehicular trips. The affected roadway (SE 197th Place) is a private road serving the Jan Road neighborhood.

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 proposed project will not interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area as there are no forestry or agricultural uses of the project area.

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

Access to the Jan Road neighborhood will be maintained throughout the proposed project construction period and the construction contractor will be required to implement an approved Traffic Control and Safety Plan to facilitate movement of local traffic and construction traffic to and from the project location.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No, the proposed project would not be growth-inducing and would not result in an increased need for public services.

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

No measures are proposed as the project will not impact public services.

16. Utilities

a. Underline utilities currently available at the site:

electricity (overhead), natural gas, water, refuse service, telephone, sanitary sewer, septic system, other: private drinking water wells, stormwater

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 that might be needed.

Changes to utilities include improvements to the stormwater management system and relocation of an overhead power pole and associated guy wires. Utility pole relocation is

being coordinated with the managing franchise utility. The amount of impervious surface will be reduced overall and new storm drains will be installed as needed to accommodate changes to surface runoff associated with the setback berm. Additionally, one catch basin and two lnon-functional closed conveyance pipes will be removed as part of levee construction.

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:

Name of signee: Thomas Bannister

Position and Agency/Organization: Senior Ecologist, King County Dept of Natural Resources & Parks

Date Submitted:

Greenhouse Grass Emissions Worksheet

Greenhouse Gas (GHG) Emissions Worksheet					
Project Name:	**Jan Road Neighborhood Improvement Project**				
Project Manager:	Dan Heckendorf				
Assessment Completed by:	Jerry Scheller				
Date of completion:	2/10/2021				
Project Description:	Remvove existing Jan Road levee, construct new levee setback, excavate side channels, and install ELJs on Cedar River floodpain between RM 12.9 and 13.4.				
Construction-related Greenhouse Gas Emissions					
				Pounds	**Metric tons**
			Emissions from fuel-burning activities (in CO2e):	321218.69	145.743507
			Emissions from embedded materials (in CO2e):	101465	46.0367514
			Emissions resulting from site impacts (in CO2e):		
			Total Emissions (in CO2e):	**422684**	**191.78**
Project-Related Carbon Sequestration					
				Pounds	**Metric tons**
			Total Carbon Sequestration 35 years after planting:	**11322624**	**5137.30672**