

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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 significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [\[HELP\]](#)

1. Name of proposed project, if applicable:

Lindberg Residence

2. Name of applicant:

Jonas Lindberg & Ameli Frenne

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

*10627 East Lake Joy Road NE
Carnation, WA 98014*

4. Date checklist prepared:

October 6, 2021

5. Agency requesting checklist:

King County

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

Mitigation installation in scheduled for Fall/Winter 2021/2022

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

No

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

The Watershed Company. 2021. Critical Area Report

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.

PREA20-0256, ENFR20-0808

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

ABC Permit

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Clearing activities and the installation of a gravel pad at the subject property resulted in temporary impacts to Wetland A. An area of wetland soil and lawn grass were excavated and replaced with gravel fill to a depth of 2 to 4 feet (Nelson Geotechnical 2021). Seven significant trees were removed from the subject property and plastic sheeting was installed in the nearshore environment of Lake Joy at the northern end of the property.

This project will restore the impacted area of Wetland A to pre-construction conditions by installing a native wetland grass seed mix. The removal of 7 significant trees will be mitigated by replacing them with 21 native trees at a ratio of 3:1. Vegetation structural diversity will also be achieved through the voluntary addition of native shrubs. The plastic sheeting will be removed from the aquatic area.

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 involves two parcels:

*10627 East Lake Joy Road NE near Carnation, WA; parcel number 4045500740
Section 35, Township 26 North, Range 7 East*

*10623 East Lake Joy Road NE near Carnation, WA; parcel number 4045500745
Section 35, Township 26 North, Range 7 East*

B. Environmental Elements [\[HELP\]](#)

1. **Earth** [\[help\]](#)

a. General description of the site:

(circle one): Flat, rolling hilly, steep slopes, mountainous, other _____

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

~19%

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.

According to the National Resources Conservation Service (NRCS) Web Soil Survey for King County, Area, Washington, Tokul gravelly medial loam, 8 to 15 percent slopes mapped throughout project area.

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

No landslide areas are shown on the subject property in King County iMap

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

To restore Wetland A, approximately 890 SF of wetland soil that were removed from the project site will be replaced in its original location. Approximately 40 cubic yards of quarry spalls and gravel that currently occupy the project site will be removed.

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

It is possible that a minor amount of erosion could occur as part of the removal of the gravel pad and replacement of the wetland soil. The wetland soil will be tilled for deconsolidation as part of the mitigation plan, however a temporary erosion and sedimentation control plan will be implemented including the installation of a silt fence and best management practices to prevent significant erosion.

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

The proposed project will not create additional impervious surface. The proposal will restore Wetland A and install native trees and shrubs.

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

Erosion control will include a temporary silt fence, blanket-mulch over any cleared areas, and staging any construction equipment outside of critical areas.

2. Air [\[help\]](#)

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

The King County SEPA – GHG – Emissions Worksheet is attached. The proposed project does not include construction of any buildings nor paved surfaces, thus, the model is not applicable to the proposed project.

No significant emissions to the air are anticipated as a result of this project.

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

None anticipated.

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

Not applicable.

3. Water [\[help\]](#)

- a. Surface Water: [\[help\]](#)

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes, the project will occur within proximity of Lake Joy and within Wetland A, a Category II lake fringe wetland.

- 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, the proposed project will restore impacts to Wetland A. For further details, please refer to the mitigation plan included with the Lindberg Critical Area Report (The Watershed Company 2021).

- 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.

Approximately 40 cubic yards of quarry spalls and gravel will be removed from Wetland A. The original Wetland A soils, which are still located onsite, will replace the quarry spoils and gravel.

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

No

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

No

- 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 intentional discharges of waste materials to surface waters would occur during restoration activities. All appropriate BMPs would be implemented to prevent such discharges.

b. Ground Water: [\[help\]](#)

- 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.

There will be no withdrawal of, or discharge to, ground water associated with implementation of the proposed project.

- 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.

There will be no waste material from septic tanks or other sources discharged into the ground as part of the proposed project.

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

No new sources of water runoff are proposed as part of the project.

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

During construction activities, material spills from equipment could enter ground or surface waters. However, spill cleanup equipment would be present on-site during construction activities.

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

Drainage patterns will not be altered as a result of the proposed project.

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

Temporary erosion control BMPs would be employed as needed.

4. **Plants** [\[help\]](#)

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

- deciduous tree: **alder, maple**, aspen, other
 evergreen tree: **fir, cedar**, pine, other
 shrubs
 grass
 pasture
 crop or grain
 Orchards, vineyards or other permanent crops.
 wet soil plants: cattail, buttercup, bullrush, skunk cabbage, **other**
 water plants: **water lily**, eelgrass, milfoil, other
 other types of vegetation

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

If encountered in the mitigation area, invasive vegetation will be removed as part of the proposed project.

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

No known threatened or endangered plant species are located 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:

Wetland grass seed mix will be installed in Wetland A following the replacement of wetland A soils. 21 native trees and additional native shrubs will be installed per the mitigation plan (Watershed 2021).

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

Yellow flag iris and English holly have been observed near the project area. Japanese knotweed, purple loosestrife, and fragrant water lily are known invasive species in and around Lake Joy.

5. **Animals** [\[help\]](#)

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

Examples include:

birds: **hawk, heron, eagle, songbirds**, other: kingfisher

mammals: **deer, bear**, elk, beaver, other:

fish: bass, **salmon, trout**, herring, shellfish, other _____

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

*Lake Joy, located north of the project area, has a mapped presence of Chinook (*Oncorhynchus tshawytscha*), coho (*Oncorhynchus kisutch*), steelhead (*Oncorhynchus mykiss*), and bull trout (*Salvelinus confluentus*).*

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

Migrating waterfowl may use Lake Joy as resting and foraging areas during spring and fall migrations.

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

Additional native shrubs will be voluntarily planted with 21 native trees added to increase vegetation structural diversity and provide foraging and resting opportunities.

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

No known invasive species are mapped in this area according to the King County invasive species page.

6. Energy and Natural Resources [\[help\]](#)

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The project will not change the current energy use of the subject property.

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

There is a small chance that the addition of 21 native trees will affect the potential use of solar energy by adjacent properties.

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

None proposed.

7. Environmental Health [\[help\]](#)

- 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.

No environmental health hazards are expected to occur as a result of this proposal.

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

None known

- 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.

None known

- 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.

No toxic or hazardous chemicals will be stored, used, or produced by the completed project.

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

None anticipated.

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

None necessary. No environmental health hazards are expected to occur as a result of this project.

b. Noise

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

Noise in the vicinity of the project area is typical of a rural residential area and is not expected to 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.

Restoration activities would generate short-term noise during allowed work hours.

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

Noise would be limited to normal, daytime working hours.

8. Land and Shoreline Use [\[help\]](#)

- 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 site is currently in use as a single family residence. The proposal will not affect the current use of the site or the uses of nearby 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?

No.

- 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:

No

- c. Describe any structures on the site.

The site contains a 1,580 SF single family residence, garage, and appurtenances.

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

No structures will be demolished.

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

RA-2.5

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

Rural Area

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

Conservancy Shoreline

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

Yes, Lake Joy is a shoreline of the state and included in the King County wetland inventory.

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

Not Applicable

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

Not Applicable

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

Not Applicable

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

Not Applicable. Proposed activities would not change the existing or proposed land use.

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

Not Applicable

9. Housing [\[help\]](#)

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

Not Applicable

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

Not Applicable

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

Not Applicable

10. Aesthetics [\[help\]](#)

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

The proposal does not include any new structures.

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

It is possible that the view between adjacent parcels would be partially obstructed by planting native trees and shrubs.

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

None proposed.

11. Light and Glare [\[help\]](#)

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

No new light or glare will be produced by the proposed activities.

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

No new light or glare will be produced by the proposed activities.

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

Proposed activities would not be affected by light or glare.

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

No measures are necessary.

12. Recreation [\[help\]](#)

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

Boating and other water recreation opportunities are available on Lake Joy.

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

The proposed project would not displace any recreational uses.

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

No measures proposed.

13. Historic and cultural preservation [\[help\]](#)

- 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.

No. The closest site is 4 miles away from the project site at the Carnation Research/Stock Farm and Hippodrome, which is listed a heritage barn.

- 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 such landmarks or evidence is known to be on or next to the 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 archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Potential impacts to cultural resources and historic resources were assessed by consulting the Washington Information System for Architectural and Archaeological Records Data (WISAARD) public database which is maintained by the Washington State Department of Archaeology and Historic Preservation (DAHP).

- 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.

Should historic, archeological, scientific or culturally significant items be encountered during implementation of activities, work would be temporarily stopped while the appropriate agencies are notified.

14. Transportation [\[help\]](#)

- 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 site is accessed from East Lake Joy Drive NE. Access will not change as a result of the proposed project.

- 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?

No. The nearest bus stop is located at NE Big Rock Road and NE 109th Street, approximately 1.4 miles west of the project site.

- 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 would be affected 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).

No

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

No

- 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?

Traffic generation would not change as the result of the proposed 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 movement of agricultural and forest products on roads or streets will not be affected by the proposed project.

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

No such measures are necessary.

15. Public Services [\[help\]](#)

- 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.

No

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

No such measures are necessary.

16. Utilities [\[help\]](#)

a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other _____

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

No additional utilities are proposed as part of this project.

C. Signature [\[HELP\]](#)

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 Kenny Booth, AICP

Position and Agency/Organization Senior Planner, The Watershed Company

Date Submitted: October 18, 2021

D. Supplemental sheet for nonproject actions [\[HELP\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

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

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

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

Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Proposed measures to protect such resources or to avoid or reduce impacts are:

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

Proposed measures to avoid or reduce shoreline and land use impacts are:

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

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

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



Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e)			Lifespan Emissions (MTCO2e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building	0		33	357	766	0
Multi-Family Unit in Small Building	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education		0.0	39	646	361	0
Food Sales		0.0	39	1,541	282	0
Food Service		0.0	39	1,994	561	0
Health Care Inpatient		0.0	39	1,938	582	0
Health Care Outpatient		0.0	39	737	571	0
Lodging		0.0	39	777	117	0
Retail (Other Than Mall).....		0.0	39	577	247	0
Office		0.0	39	723	588	0
Public Assembly		0.0	39	733	150	0
Public Order and Safety		0.0	39	899	374	0
Religious Worship		0.0	39	339	129	0
Service		0.0	39	599	266	0
Warehouse and Storage		0.0	39	352	181	0
Other		0.0	39	1,278	257	0
Vacant		0.0	39	162	47	0

Section II: Pavement.....

Pavement.....		0.00				0
---------------	--	------	--	--	--	---

Total Project Emissions:

0

Data entry fields