SEPA[1] 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.

[1] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/Checklist-guidance

A.Background

Find help answering background questions[2]

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

   Larch Corrections Center Biosolids Lagoon Decommissioning and Wastewater Treatment Plant (WWTP) Abandonment

2. **Name of applicant:**

   KPFF Consulting Engineers on behalf of Washington State Department of Corrections

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

   KPFF: Clint Pierpoint (Clint.Pierpoint@kpff.com, 360.790.6832)

   DOC: Darin Klein (Darin.Klein@doc1.wa.gov, 360.580.8731)

4. **Date checklist prepared:**

   8/26/2024

5. **Agency requesting checklist:**

   Department of Ecology, Clark County

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

   Biosolids lagoon decommissioning will begin following issuance of all required permits. Following this approval to proceed, biosolids lagoon decommissioning is expected to be completed within 30 days. Wastewater treatment plant abandonment efforts are expected to occur concurrently.

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

   None currently. The water system on site is being maintained for the site's potential future use by the Department of Natural Resources, however no use of the WWTP in the future is anticipated.

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

   The WWTP underwent the SEPA process in 2006, when a determination of non-significance was issued for its operation, including removal of biosolids.

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.**

   No applications pending currently.

[2] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-A-Background

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

Grading and Drainage Review permit from Clark County, with habitat and geotechnical evaluation and permit exemption expected. Extended Statewide Biosolids General Permit coverage for final closure of lagoon, to be gained through an Agreed Order with WA Department of Ecology.

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.)

This proposal is to restore a solids storage lagoon from Larch Corrections Center's wastewater treatment plant. Previous phases of work include sludge and biosolids removal. This checklist pertains to the proposed phase of work that includes excavation of the bentonite liner below the pond, removal of the berms that form the impoundment, and filling in the cavity to restore predeveloped drainage conditions. Also included in this proposal is work to abandon the WWTP, which includes disconnection of the treatment train from the outfall, Infiltration/Inflow final repairs and rehabilitation to reduce flow-through and disinfection.

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.

This project is limited to the WWTP and lagoon at the Larch Corrections Center, 15314 NE Dole Valley Rd, Yacolt WA Section 20, Township 03 N, Range 04 E.

B.Environmental Elements

1. Earth

Find help answering earth questions[3]

a. General description of the site:

This site is adjacent to a wooded area to the northwest of LCC. To the west there is an irregular and heavily wooded slope leading to Cedar Creek, which is fed by a reservoir on the south side of LCC. To the north of the existing lagoon there is a relatively flat forested area with 75-125-foot-tall coniferous trees, and to the east there is flat land

[3] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-earth

that was cleared more recently and has trees reaching only 15-30 feet. To the immediate south of the lagoon is the WWTP.

Circle or highlight one: Flat, rolling, hilly, steep slopes, <u>mountainous,</u> other:

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

The steepest slopes are approximately 30%, at the berm that impounds the lagoon. On the east side is a steep slope (15%-25%) leading to Cedar Creek, the rest of the surrounding area is relatively flat.

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

Silt loam.

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

None known.

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.

Pushing in the berms and importing fill to flatten the lagoon are proposed. This includes excavation and disposal in landfill of approximately 650 cubic yards of bentonite that currently forms the liner of the lagoon. Approximately 6000 cubic yards of total fill is estimated, with 2000 cubic yards of cut, for a net fill of 4000 cubic yards. This work will take place in an area of approximately 55,000 square feet.

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

The only portion of this project with potential for erosion is the construction of the finished grade of the lagoon. The finished grade will be a landscaped, even slope to allow dispersion and infiltration.

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

This project does not include any addition of impervious surface. After removal of the impermeable liner of the lagoon, 0% of the site will be covered with impervious surface.

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

This work will take place with applicable construction stormwater BMPs in place, including limiting earthwork to rainless days and straw wattles installed in the finished project. The area will be finished with 6” of compost amended native soils and hydroseeded with a native seed mix following completion of work to provide increased stability and to control erosion.

2. Air

Find help answering air questions[4]

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.

Emissions to the air resulting from this project are limited to the operation of construction equipment during regrading. No on-going emission to the air will result from this project.

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

None known.

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

None proposed.

3. Water

Find help answering water questions[5]

a. Surface:

Find help answering surface water questions[6]

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. There are two surface water bodies in the immediate vicinity of the site:
1) Cedar Creek is approximately 300 ft west of the lagoon. It flows north for approximately 3.5 miles where it flows into Rock Creek, which flows into the East Fork Lewis River 4 miles north.
2) There are wetlands approximately 225 ft to the northeast.

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.

Work will be no closer than 100 feet from the creek, so it will be considered adjacent to Cedar Creek. This work will be limited to the grading limits shown on the attached plan and is not anticipated to impact the creek. Work will occur over 200 feet from the delineated wetlands.

[4] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-Air
[5] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water
[6] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Surface-water

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 will be placed in or removed from surface water or wetlands.

4. **Will the proposal require surface water withdrawals or diversions? Give a 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.

b. Ground:

Find help answering ground water questions[7]

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 a general description, purpose, and approximate quantities if known.**

   None associated with this proposal. Larch operates a Group B water system.

2. **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (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.**
   None.

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.**

   Rainwater falling on the treatment train of the WWTP will be conveyed to stormwater dispersion ditches to the east side of the site, opposite side from Cedar Creek. This proposal has been designed expressly to prevent runoff into Cedar Creek.

[7] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Groundwater

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

   While not anticipated, it is possible. Removal of 6 inches of the bentonite liner is intended to remove all residual biosolids from the area. Groundwater is known to be high in this area during storms, so there is a possibility that some leftover bentonite and possibly other waste materials may enter the groundwater flow.

3. **Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**
   Yes. Existing conditions form an impoundment via earthen berms and impermeable base layer. This project proposes to remove that impoundment and restore drainage patterns to predeveloped condition.

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

This proposal seeks to reduce impacts to drainage patterns and prevent point discharge through the regrading and restoration work planned. In this way it also controls surface, ground and runoff water impacts.

4. Plants

Find help answering plants questions

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?

Grasses line the perimeter of the lagoon to about 15-20 feet into the lagoon, estimated to be 350 cubic yards of material. These grasses will be removed and disposed of in landfill.

c. List threatened and endangered species known to be on or near the site.
None known.

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

Following grading of the lagoon the area will be hydroseeded with a native seed mix.

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

None known.

5. Animals

Find help answering animal questions[8]

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.
Hawks, small songbirds and deer are known to be near the site. Larch mountain as a whole is home to elk, deer, black bears, coyotes, grouse, bald eagles, bobcats and mountain lions.

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

The Yellow-billed Cuckoo and the Bull Trout are both threatened species whose habitat overlaps with the site per the USFWS IPaC service. No endangered species are known to have habitat on this site. No threatened or endangered species are known to be on or near the site.

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

No.

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

None.

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

None known.

6. Energy and natural resources

Find help answering energy and natural resource questions[9]

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 completed project will have no energy needs.

[8] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-5-Animals
[9] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-6-Energy-natural-resou

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.

None.

7. Environmental health

Health Find help with answering environmental health questions[10]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

A Spill Prevention and Response plan has been prepared that serves to mitigate the risk that biosolids hauling could result in a spill.

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

Biosolids contamination has been kept above the surface by the bentonite liner that is to be disposed of in the landfill. This liner will be removed and disposed of prior to further work. There is no contamination known below the liner.

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.

None.

4. Describe special emergency services that might be required.

Spill response has the potential to require emergency services. The contractor will have trained and qualified personnel available to provide emergency services and has a list of additional contacts for emergencies.

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

The Spill Prevention and Response plan contains these proposed measures. It is attached to this proposal.

[10] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-7-Environmental-health

b. Noise

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

   None.

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)?**

   There will be short-term noise coming from demolition and earthwork equipment occurring during daytime hours only.

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

   None.

8. Land and shoreline use

Find help answering land and shoreline use questions[11]

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.

This site is currently a closed minimum security prison complex. The site is on Department of Natural Resources property and is surrounded by Department of Natural Resources forestland.

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 because 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?

This site has been working forest land prior to development of the LCC site. This proposal seeks to return the lagoon area to possibly producing harvestable timber again in the future.

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 lagoon has a concrete spillway structure that is an open channel about 6 ft tall, 10 ft long, and 4 ft wide. The WWTP includes two circular clarifiers about 201 sq ft each and 16-18 ft deep, anoxic/oxic basins of about 1,670 sq ft total and 8-10 ft deep, as well as

[11] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-8-Land-shoreline-use

non-enclosed covered areas totaling about 1,000 sq ft. There is an effluent polishing building of about 2,300 sq ft and a grit screening auger as well.

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

The lagoon's concrete spillway structure will be demolished.

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

Forest-80.

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

Forest Tier 1.

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

Not applicable.

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

The wellhead protection zones for LCC's Group B water system sources are a nearby critical area that does not overlap with the project site at all. The riparian zone of Cedar Creek is a critical area that overlaps with approximately 20% of the project site.

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

None.

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

None.

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

None.

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

Restoration of the lagoon area is compatible with existing and projected land uses as forest land.

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

None.

9. Housing

Find help answering housing questions[12]

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

   None.

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

   None.

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

   None.

10. Aesthetics

Find help answering aesthetics questions[13]

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

   No building is proposed.

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

   None.

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

   None.

11. Light and glare

Find help answering light and glare questions[14]

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

   None. Work will occur during daylight hours.

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

   No.

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

   None.

[12] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-9-Housing
[13] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-10-Aesthetics
[14] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-11-Light-glare

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

None.

12. Recreation

Find help answering recreation questions

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

None in the immediate vicinity.

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

No.

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

None.

13. Historic and cultural preservation

Find help answering historic and cultural preservation questions[15]

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.

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.

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.

The project is relying on experience from previous work done to develop elsewhere on the site.

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.

None.

[15] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-13-Historic-cultural-p

14. Transportation

Find help with answering transportation questions[16]

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.

Forest service roads provide access to this site. The WWTP and lagoon are accessible through the western perimeter road of LCC.

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.

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

No.

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

No.

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

This proposal will only generate increased traffic during work, this traffic will be temporary and insignificant.

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

No.

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

None.

[16] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-14-Transportation

15. Public services

Find help answering public service questions[17]

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.**

   None.

16. Utilities

Find help answering utilities questions[18]

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.**

   This project proposes to complete removal of sanitary sewer service. No other utility impacts or service needs are anticipated.

C.Signature

Find help about who should sign[19]

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.

X _____

Type name of signee: Clint Pierpoint

Position and agency/organization: KPFF, Associate

Date submitted: **8/26/2024**

[17] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-15-public-services
[18] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-16-utilities
[19] https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-C-Signature

D.Supplemental sheet for nonproject actions

Find help for the nonproject actions worksheet[20]

Do not use this section 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?**

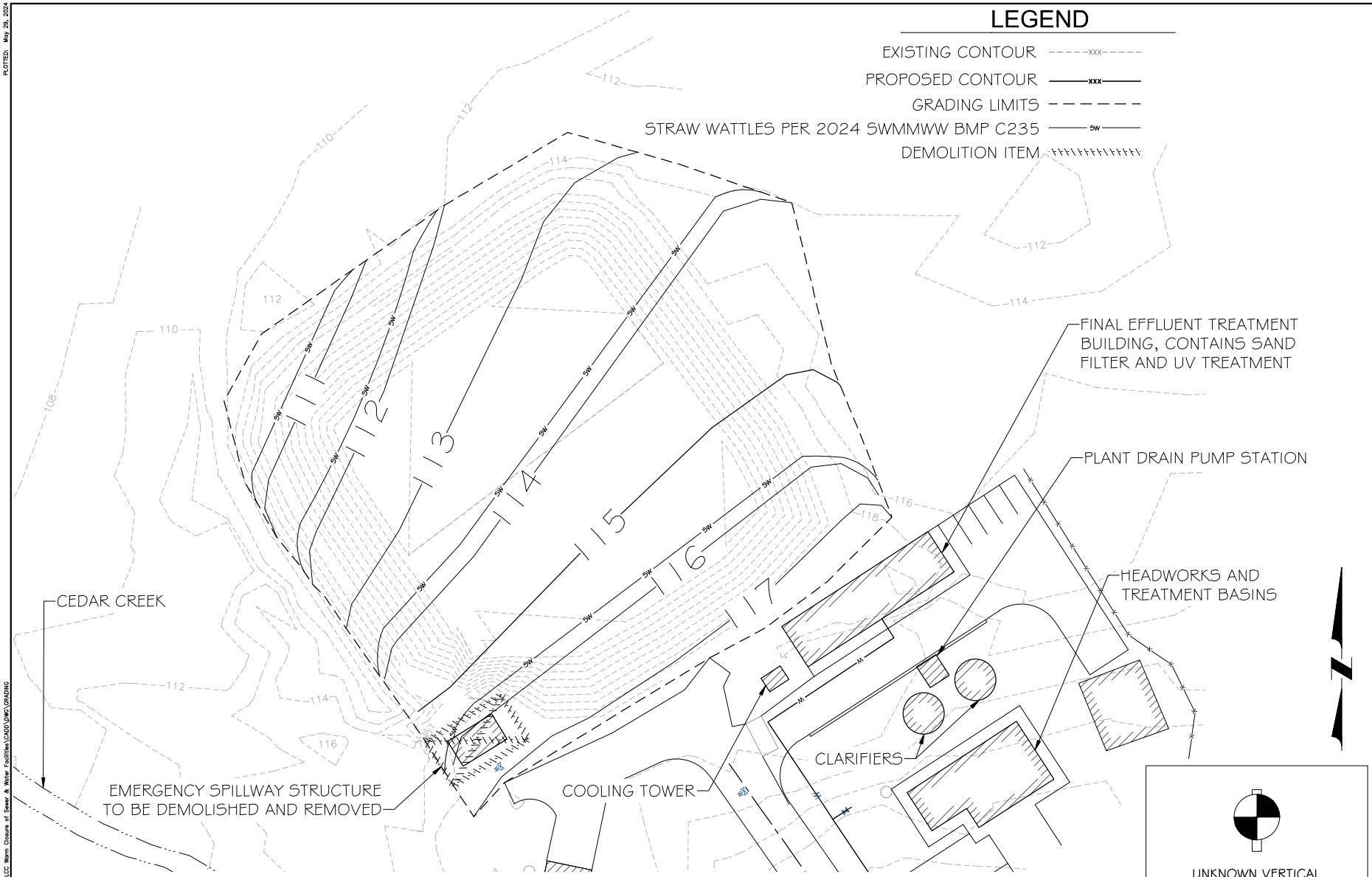
[20] https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-d-non-project-actions

- **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.**



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CHECKED BY	APPROVED BY
CP	—
	DATE
	05.24.2024
JOB NO.	2024-308 A(2)

LARCH CORRECTIONS CENTER
WWTP DECOMMISSIONING

WASTEWATER TREATMENT PLANT
SITE PLAN AND LAGOON
RESTORATION GRADING

EXHIBIT

APPENDIX D

PLOTTED: May 29, 2024

FILE: I:\2023\10182000084- LCC Warm Closure of Sewer & Water Facilities\CAD\DWG\GRADING

1.0 SPILL PREVENTION

1.1 Chemical Storage

1.1.1 Chemical substances should be stored in proper leak proof containers to minimize the potential for a spill.

1.1.2 Whenever possible, chemicals should be kept in closed containers and stored so they are not exposed to storm water or access to bays, rivers, etc.

1.1.3 Liquid products / waste should be stored with secondary containment.

1.1.4 Each location shall have an annually updated material inventory of hazardous and toxic chemicals.

1.2 Spill Kits

1.2.1 A proper spill kit must be provided that contains the appropriate supplies for any materials that may be spilled.

1.2.2 The spill kit and contents must be easily accessible when required, and considerations must be made for both the type and quantity of materials.

1.2.3 A typical spill control kit might include:

1.2.3.1 Spill control pillows. These are commercially available and can be used to absorb solvents, acids, alkalis, but not hydrogen fluoride.

1.2.3.2 Inert absorbents such as vermiculite, clay, sand, kitty litter and oil-dri.

1.2.3.3 Neutralizing agents for acid spills such as sodium carbonate and sodium bicarbonate.

1.2.3.4 Neutralizing agents for alkali spills such as sodium bisulfate or citric acid.

1.2.3.5 Plastic scoops and other equipment such as brooms, pails, bags, dust pans, etc., as appropriate.

1.2.3.6 Appropriate warnings, barricade tapes and protection against slips or falls on wet floor during and after clean up episodes.

1.3 Training

1.3.1 NRC employees will be trained on proper spill prevention and response procedures.

1.3.2 The training will include hands-on with the materials available for use, proper waste disposal and communication procedures.

1.3.3 Instructions should include:

1.3.3.1 How to report a fire, injury, chemical spill, or other emergency.

1.3.3.2 The location of emergency equipment such as safety showers and eyewashes.

1.3.3.3 The location of fire extinguishers and spill control equipment.

1.3.3.4 The locations of all available exits for evacuation.

1.4 Good Housekeeping / Best Management Practices

1.4.1 Areas where chemicals may be used or stored must be maintained using good housekeeping best management practices.

1.4.2 These best management practices include but are not limited to, clean and organized storage, labeling and secondary containment where necessary**.**

1.5 Spill Planning / Communication

1.5.1 All NRC employees will be trained in the proper communication measures that be in place and initiated upon a spill or release of materials.

1.5.2 Communication procedures should be based on the type and quantity of materials spilled**.**

2.0 CHEMICAL SPILL PROCEDURES

2.1 General

Accidental release of chemicals occasionally occurs as a result of spills, leaks, etc. When spills happen there is a potential for the development of harmful effects depending on the chemical involved and the associated hazards.

Contingency planning can minimize potential problems and enhance personnel's ability to deal with routine spills effectively. The hazardous chemical spill procedures in the emergency procedures give spill response for three main scenarios.

2.2 Spill Plan Guidelines

Each work area where hazardous substances are used should have a spill plan. Experiments and research projects should always be designed to minimize the possibility of an accidental release of hazardous substances.

2.3 Small Spill Guide

The following are provided for use in handling common small spills, i.e., not immediately dangerous to life and health. These are general guidelines; however, they should be customized to meet the needs of the individual worksite or operation:

2.3.1 Notify other personnel in the immediate area about the spill and if necessary, evacuate the area.

2.3.2 In case of injury or potential exposure, attend to victim(s) immediately and if necessary, request help.

2.3.3 Take appropriate steps to confine and limit the spill if this can be done without risk of injury or contamination.

2.3.4 Clean up spill using appropriate procedures. Dispose of spill clean up debris properly according to procedures outlined in this manual.

2.4 Spill Control and Cleanup Materials

Personnel working with hazardous substances should be familiar with the properties (physical, chemical, and toxicological) of such substances prior to commencing work. The necessary safety equipment, protective clothing and spill control materials should be readily available in the work area. All areas in which hazardous substances are used should have spill kits to deal with the potential hazards of the substances being used.

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2.5 First Aid Guide

In case of injury or potential exposure, attend to victim(s) immediately as outlined below:

2.5.1 For spills affecting small portions of skin, immediately flush with flowing water for at least 15 minutes. If no visible burn exists, wash with warm water and soap, removing any jewelry.

2.5.2 For spills on clothes, don't attempt to wipe the clothes. Quickly begin showering while removing all contaminated clothing, shoes, and jewelry. It may be necessary to cut the clothes off in some instances to prevent contamination of the eyes.

2.5.3 Do not use creams, lotions, or salves.

2.5.4 Avoid breathing the vapors of spilled substances.

2.5.5 Contaminated clothes should be discarded or laundered separately from other clothing.

2.5.6 For splashes into the eye, immediately flush with tepid potable water for at least 15 minutes. Hold the eyelids away from the eyeball, moving eye in all directions to wash thoroughly behind the eyelids. Use eyewash for this purpose.

2.5.7 In all cases, seek medical attention: Dial 911 for emergency response.

2.6 Spill Cleanup Guide

Spill cleanup procedures vary depending on the spill location, the spill amount and physical properties, the degree and type of toxicity and the level of training of individuals involved. The hazardous chemical spill procedures in the emergency procedures give spill response for three main scenarios. The following are general guidelines for handling common small spills, i.e., not IDLH:

Low flammability, volatility, and / or toxicity substances	This group includes inorganic acids (sulfuric, nitric) and bases (sodium and potassium hydroxide). Absorption with an absorbent and appropriate disposal is recommended. The spilled substances may be neutralized with materials such as sodium bisulfate (for alkalis) and sodium carbonate or bicarbonate (for acids).
Flammable liquids	This category includes petroleum ether, hexane, pentane, diethyl ether, dimethoxyethane and tetrahydrofuran to mention a few. Other personnel in the area should be alerted, all flames extinguished, and any spark-producing equipment turned off. The spilled substance should be soaked up using absorbent material as quickly as possible. Spill debris should be sealed properly and disposed of.
Highly toxic substances	NRC Safety Manager should be notified whenever a highly toxic substance spill occurs. Also, personnel in the area should be notified. Consult the Safety Data Sheet (SDS) for appropriate or recommended cleanup procedures and consult with appropriate Regional Safety Manager for assistance and/or additional information.

Appropriate personal protective equipment such as gloves, tyvek coveralls, safety glasses and if necessary, shoe coverings should be worn during any spill clean up event. Depending on the substance spilled, a respirator may be necessary. Individuals requiring the use of respirators must by regulation undergo special training and obtain medical clearance prior to respirator use. Contact the Safety Manager for more information.

2.7 Guide for Large Chemical Spills

In the event of a large chemical release (a volume which exceeds the capacity of a standard cleanup kit), a situation which may be immediately dangerous to life and health, or where the readily available personal protective equipment (PPE) is inadequate to ensure worker safety, the following measures must be followed:

2.7.1 Notify other personnel about the spill and evacuate the area. In case of injury or exposure, immediately attempt to remove or protect victim(s) immediately if this can be done without risk of injury or contamination; if needed, request help.

2.7.2 Move to a safe area and dial 911 to report the emergency.

2.7.3 If the danger could or does involve the area beyond the spill or room, pull fire alarm (or safety alarms if applicable), evacuate the building and secure entrances.

2.8 Guide for Chemical Releases to the Environment

If hazardous or regulated materials are spilled outside of buildings or unintentionally released to the environment via ground, sewer, or air, contact the Safety Manager to determine if the chemical release is subject to special regulatory reporting requirements. Be prepared to provide the name of the chemical(s) involved, quantities released and approximate time of the incident. The Safety Manager will contact the appropriate regulatory agencies and initiate reporting if necessary.

2.9 Mercury Cleanup Procedure

NRC has a mercury vacuum cleaner for larger spills such as those involving a manometer or larger instrument. Do not use a standard vacuum cleaner to pick up mercury.

The preferred method of spill cleanup is to collect the mercury because elemental mercury can be recycled. Push pools and globules of mercury together and collect by suction using an aspirator bulb or a vacuum device made from a filtering flask, a rubber stopper, and several pieces of flexible glass tubing.

The use of mercury sponges, sulfur powder or zinc powder to clean up spills is discouraged. Amalgamated mercury cannot be recycled and is expensive to dispose of.

Metallic mercury from spills, broken thermometers or other equipment, and contaminated mercury from laboratory activities should be contained in thick-walled, high-density polyethylene bottles. Place any discarded rags, sponges, shoe covers and other debris from cleanup activities in a sealed plastic bag for pick up by NRC.

After the cleanup of a spill involving a significant quantity of mercury, NRC will monitor the area and cleanup operation with a mercury-vapor analyzer.