

# 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:*** [\[help\]](#)

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: [\[help\]](#)  
[South Puget Sound Wildlife Area Management Plan](#)
2. Name of applicant: [\[help\]](#)  
[Washington State Department of Fish and Wildlife](#)
3. Address and phone number of applicant and contact person: [\[help\]](#)

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4. Date checklist prepared: [\[help\]](#) August 27, 2021
5. Agency requesting checklist: [\[help\]](#) Washington State Department of Fish and Wildlife
6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)  
Final plan will be published on WDFW website estimated to be November 2021.
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)  
Yes, specific projects or actions may be taken to implement elements of this plan. Where appropriate, project specific SEPA review will occur.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#) N/A
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. [\[help\]](#) N/A
10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#) N/A
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.) [\[help\]](#)  
This is a new management plan for the South Puget Sound Wildlife Area. Over the next 10 years the plan will direct management activities on the following wildlife area units:
  1. Big Beef Creek (1,071 acres)
  2. Stavis Creek (41 acres)
  3. Lake Koeneman (150 acres)
  4. McNeil Island (3,119 acres)
  5. Nisqually (654 acres)
  6. Skokomish (225 acres)
  7. South Puget Sound (72 acres)
  8. Union River (458 acres)

Proposed uses include fish and wildlife conservation; protecting and restoring oak woodlands, forests, wetlands, estuary, and riparian habitats. Examples of management activities under this plan include: weed management; Oregon spotted frog and western pond turtle monitoring, restore/maintain habitat for the western pond turtle; waterfowl surveys; wetland inventory; complete estuarine, nearshore, and riparian habitat restoration projects at McNeil Island, Union River, and Skokomish units; eelgrass monitoring.

Recreational projects include: Increase waterfowl hunting opportunities; increase public awareness of wildlife viewing opportunities, improve recreational access and establish unit rules; develop a plan to manage access on Lake Koeneman; improve recreational facilities on the wildlife area; and maintaining fishing opportunities.

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. [\[help\]](#)

Big Beef Creek (Kitsap County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/big-beef-creek-wildlife-area-unit>
- Legal Description: Township: 25N Range: 02W Sections: 26

Stavis Creek (Kitsap County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/big-beef-creek-wildlife-area-unit>
- Legal Description: Township: 24N Range: 02W Sections: 36

Lake Koeneman Unit (Kitsap County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/lake-koeneman-wildlife-area-unit>
- Legal Description: Township: 22N Range: 01W Section: 10

McNeil Island Unit (Pierce County)

- Directions: No public access
- Legal Description: Township: 20N Range: 01E Section: ALL

Nisqually (Thurston County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/nisqually-wildlife-area-unit>
- Legal Description: Township: 19N Range: 01W Sections: 36

Skokomish (Mason County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/skokomish-wildlife-area-unit>
- Legal Description: Township: 21N Range: 04W Sections: 9

South Puget Sound (Pierce County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/south-puget-sound-wildlife-area-unit>
- Legal Description: Township: 20N Range: 02E Sections: 41

Union River (Mason County)

- Directions: <https://wdfw.wa.gov/places-to-go/wildlife-areas/union-river-wildlife-area-unit>
- Legal Description: Township: 23N Range: 01W Sections: 31

## **B. ENVIRONMENTAL ELEMENTS** [\[help\]](#)

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

a. General description of the site: [\[help\]](#)

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other ALL  
The South Puget Sound Wildlife Area covers approximately 2,500 acres spread across Mason, Kitsap, Pierce, and Thurston counties in 8 units. Major rivers and tributaries flow into Puget Sound or Hood Canal. The wildlife area supports many prairie, estuary, and wetland dependent species, as well as a variety of other wildlife and native fish populations, some of which are federally endangered. Each unit provides habitat for many common species found throughout western Washington, such as deer, elk, river otter, hawks, and a many different song birds. In addition to common species, units are managed either for recreation associated with fish and wildlife or for the protection of specific species and their habitats. The terrain ranges from estuary, river floodplain, to forested rolling hills with elevations range from 0 to 645 feet. The majority of the wildlife area features are estuary/shoreline, riverine, or forested. On each unit there varying landscape types and features.

b. What is the steepest slope on the site (approximate percent slope)? [\[help\]](#)  
Marine shoreline bluffs on a couple units.

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. [\[help\]](#)

Glacial deposits range from very porous gravels and sands to a hard till in which substantial clay and silt are mixed with coarser particle. Soil texture is commonly gravelly sandy loam, and profile depth averages about one meter. Underlying materials are either loose gravels and sands or hard, cemented till. In the prairie communities, soils are extremely well drained and contain very little organic matter. In estuary and wetland habitats soils are poorly drained and contain considerable amounts of organic matter. The geology underlying the McAllister sub-basin is dominated by glacial deposits, glacial outwash, and alluvium that comprise a complex configuration of aquifers and aquitards.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [\[help\]](#) N/A

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. [\[help\]](#) N/A

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#) N/A

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? [\[help\]](#) N/A

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)  
N/A

## 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. [\[help\]](#) N/A
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#) N/A
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#) N/A

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

#### a. Surface Water:

- 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. [\[help\]](#)

The South Puget Sound Wildlife Area falls under WRIAs: 11, 12, 14, 15, 16.

- Skokomish Unit - On the western shore of Hood Canal, major rivers, including the Skokomish, Dosewallips, Hamma Hamma, and Duckabush, as well as many small and intermittent streams, flow from headwaters in the snow-capped Olympic Mountains down to the glacier-carved fjord of Hood Canal and the floodplains of the Skokomish River Valley. Estuarine and marine wetlands flanked by estuarine marine deep water habitats of the river's main channel and side tributary.
- South Puget Sound Unit- Chambers-Clover Creek Watershed (WRIA 12) extends from Commencement Bay to DuPont and includes Chambers, Clover, Spanaway, Morey, Murray, Flett, Leach, Puget, and Peach streams. Major lakes include American, Spanaway, Steilacoom, Gravelly, and Tule.
- Big Beef Creek (Morgan Marsh)/ Stavis Creek, Union River Units- The Kitsap Watershed (WRIA 15) uplands are predominantly recharge areas in which water percolates downward to water bearing strata and eventually migrates to discharge areas. Numerous surface water drainage features, such as Gorst and Big Beef Creeks, provide internal drainage for the shallow ground water systems that occur within the uplands. The largest drainages in the WRIA include the Tahuya River, Union River, and Dewatto Creek. Union River Unit – estuarine and marine wetlands and freshwater emergent and freshwater forested scrub/shrub wetlands and riparian areas.
- Lake Koeneman is one of the few protected and relatively undisturbed natural lakes in the vicinity and is part of the headwaters of the Rocky Creek watershed.
- McNeil Island – wetland habitats, streams include: Floyd Creek, Luhr Creek, Bodley Creek, and headwaters of Eden Creek contain the Buttersworth Reservoir.
- Nisqually – tidal influence Nisqually Estuary - Nisqually River and McAllister Creek, estuary marine wetlands, marine deepwater habitat, freshwater marsh and riparian.

- 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. [\[help\]](#) N/A

- 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. [\[help\]](#) N/A

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. [\[help\]](#)  
There are no surface water withdrawals or diversions with this proposal.
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#) N/A
- 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. [\[help\]](#) N/A

b. Ground Water:

- 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. [\[help\]](#)  
Yes, there is a well on the Nisqually Unit used for public drinking water supply and is discharged via a septic system. Also, there is a well at the South Puget Sound Unit used for fish hatchery operations which is discharged to surface water.
- 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. [\[help\]](#)

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. [\[help\]](#)  
All runoff is from rainfall. No collection of runoff or disposal is necessary. Most surfaces within the units are permeable and most of the water should be collected naturally by the ground or flow into small stream, wetlands, and rivers.
- 2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)  
There are generally no waste materials on site that could enter ground or surface waters. A septic system on the Nisqually unit exists and if there is a failure of that system then a potentially a discharge issue could arise.
- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [\[help\]](#) N/A

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [\[help\]](#) N/A

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

- a. Check the types of vegetation found on the site: [\[help\]](#)

- X deciduous tree: alder, maple, oak, cottonwood, Ash, other
  - X evergreen tree: fir, cedar, yew, pine, other
  - X shrubs: snowberry, Oregon grape, elderberry, ninebark, dogwood, willow, other
  - X grass: Fescue, native grasses, and pasture grasses
  - X wet soil plants: cattail, sedges, rushes, skunk cabbage, other
  - X water plants: variety
  - X other types of vegetation
- South Puget Sound Wildlife Area includes: oak prairie woodlands, wetlands, riparian, forests, floodplain, estuary, open mudflat, grasslands, and nearshore habitats.

b. What kind and amount of vegetation will be removed or altered? [\[help\]](#)

N/A

c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)

Planting native species will occur as need at all units.

e. List all noxious weeds and invasive species known to be on or near the site. [\[help\]](#)

Weed species of concern on the South Puget Sound Wildlife Area include but are not limited to:

State designation	Weed Species
Class A	None known
Class B	Poison hemlock, tansy ragwort, Japanese knotweed, phragmites
Class C	Canada thistle, English ivy, Himalayan blackberry, Scotch broom, English holly

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

Examples include:

- birds: hawk, heron, eagle, songbirds, other:
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other \_\_\_\_\_

See Table 7 in the management plan for a list of state and federal conservation status, SGCN, WDFW Priority Habitat and Species - criteria and priority areas for species that may occur on the wildlife area.

b. List any threatened and endangered species known to be on or near the site. [\[help\]](#)

Common loon (SS), marbled murrelet (FT, SE), northern spotted owl (FT, SE), streaked horn lark (FT, SE), Oregon spotted frog (FT, SE), bull trout (FT), sea otter (FT, SE), southern resident killer whale (FE, SE), western gray squirrel (ST), Chinook (FT), chum (FT), steelhead (FT), western pond turtle (SE).



c. Is the site part of a migration route? If so, explain. [\[help\]](#)

Yes, existing habitat provides migration routes for game species and non-games species, salmon species, marine mammals, songbirds, and migratory bird pacific flyway.

d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)

See wildlife area management plan's goals and objectives.

Examples of measures include: Restore natural function and processes of aquatic systems on the wildlife area that benefit focal species, including maintaining, and encouraging beaver presence where appropriate. Thin 28 acres of Douglas fir plantation on Lake Koeneman Unit by 2031. Maintain or improve pond health for western pond turtles, Oregon spotted frog and other species. Develop a strategy to reintroduce streaked horn lark on McNeil Island by 2026. Collaborate with partners to establish protection measures for developing wildlife corridors adjacent to the wildlife area units in Kitsap County.

e. List any invasive animal species known to be on or near the site. [\[help\]](#)

Black crappie, bluegill, brown bullhead, common carp, large-mouth bass, pumpkinseed, rock bass, small mouth bass, yellow perch, and bull frog.

## 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. [\[help\]](#) N/A

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [\[help\]](#) N/A

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: [\[help\]](#) N/A

## 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. [\[help\]](#) N/A

1) Describe any known or possible contamination at the site from present or past uses. [\[help\]](#) N/A

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. [\[help\]](#) N/A

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. [\[help\]](#)  
N/A



4) Describe special emergency services that might be required. [\[help\]](#) N/A

5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)  
N/A

b. Noise [\[help\]](#)

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? [\[help\]](#) N/A

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. [\[help\]](#) N/A

3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#) N/A

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

The current uses of WDFW wildlife areas are recreation and wildlife conservation. WDFW lands are surrounded by urban and rural lands, public preserves, and agriculture including industrial forestry. Other state lands includes the DNR – Kitsap Forest Natural Area. Tribal lands – Skokomish Tribe. The proposal will not adversely affect land use on adjacent properties.

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

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: [\[help\]](#) N/A

c. Describe any structures on the site. [\[help\]](#)

There are only a few units with structures on them. The Nisqually, South Puget Sound, and McNeil Island units have resident structures, field office, and storage type structures. Additionally, there are public vault toilet restrooms on a few of the units.

d. Will any structures be demolished? If so, what? [\[help\]](#)  
N/A

e. What is the current zoning classification of the site? [\[help\]](#)

Big Beef Creek/Stavis Creek: RP – Rural Protection (1 DU/10 Ac); RW – Rural Wooded (1 DU/20 Ac); RR – Rural Residential (1 DU/5 Ac)  
Lake Koeneman: RW – Rural Wooded (1 DU/20 Ac)  
McNeil Island: R40-Rural  
Nisqually: RRR 1/5 – Rural Residential Resource; R 1/20 – Rural; RL 1/2 – Residential Lamird  
PP - Public Parks Trails and Preserves  
Skokomish: rural commercial, rural residential, agriculture resource lands, Skokomish Indian Reservation  
South Puget Sound: --  
Union River: RR – Rural Residential; AGR – Agricultural Resource Lands; UR – Urban Residential; SED – Existing SED Conservancy

f. What is the current comprehensive plan designation of the site? [\[help\]](#)

Big Beef Creek/Stavis Creek: RP – Rural Protection; RW – Rural Wooded; RR – Rural Residential  
Lake Koeneman: Public Facility  
McNeil Island: R4-Rural  
Nisqually: Public Preserves  
Skokomish: 18 – Other residential not coded elsewhere; 19 – Vacation Homes; 48 – Utility Corridors; 88 – Designated Forest Land; 91 – Undeveloped Land; South Puget Sound: Open space, recreation  
South Puget Sound: Open Space & Recreation One (OSR1), Open Space & Recreation Two (OSR2)  
Union River: 11 – Single Family Units; 15 – Mobile Home Parks; 18 – Other residential not coded elsewhere; 48 – Utility Corridors; 53-59 – Retail Trades; 63 – Business Services – Storage; 64 – Repair Services; 69 – Misc. Services; 85 – Mining Activities – Paving; 91 – Undeveloped Land

g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

Big Beef Creek/Stavis Creek: Natural, Rural Conservancy  
Lake Koeneman: Natural  
McNeil Island: Natural/Conservancy, high intensity (correctional facility)  
Nisqually: Natural Conservancy Rural  
Skokomish: Conservancy, residential  
South Puget Sound: Conservancy  
Union River: Natural Conservancy, residential

h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

1. Wetlands and streams

YES (see previously submitted information)

2. Areas with a critical recharging effect on aquifers used for potable water

YES, the Big Beef Creek and McNeil Island units.

3. Fish and wildlife habitat conservation areas

YES (see previously submitted information)

4. Frequently flooded areas

YES, units with waterbodies. The Skokomish Unit floods significantly on an annual basis.

5. Geologically hazardous areas

Units with marine shoreline.

i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

None

j. Approximately how many people would the completed project displace? [\[help\]](#) N/A

k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#) N/A

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

Measures identified in this plan are compatible with local land use regulations.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)

Measures identified in the plan are compatible with nearby agricultural land use and forest lands.

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

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

No additional housing is expected under the new management plan.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#) N/A

c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#) N/A

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? [\[help\]](#) N/A

b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#) N/A

b. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#) N/A

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

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#) N/A
- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)  
N/A
- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#) N/A
- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#) N/A

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

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)  
Hunting, fishing, hiking, walking, wildlife viewing, boating, photography, running, swimming, ADA trail.
- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)  
None
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)  
Recreational opportunities will be maintained and/or enhanced in this plan. Please see the recreation goals, objectives list in the management plan for details.

**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.  
Yes, the Nisqually, South Puget Sound, and McNeil Island units have buildings, structures, and sites that could be eligible for preservation registers. These structures have been evaluated and are documented by WDFW archeologist.
- 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. [\[help\]](#)  
Yes, see DAHP data basis. Several cultural resource surveys have been conducted or are underway presently related to habitat restoration efforts on WDFW lands.
- 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. [\[help\]](#)

As specific projects are conceived, they will be reviewed by WDFW. Project reviews will be informed by the results of prior archaeological and historic research, review of ethnographies and ethnographic information, information provided by the Tribes during consultation, the results of coordination with stakeholders and wildlife area staff, regional land use practices, local and regional geomorphological conditions, and regional settlement patterns. As needed, WDFW will conduct cultural resource surveys of project area to assess potential of the project to impact cultural resources, to characterize the impacts, if any, and to make recommendations about reasonable options to avoid, minimize, or mitigate impacts to any archaeological or cultural resources should any be present at the project location.

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. [\[help\]](#) Specific project locations have not yet been identified. As specific projects are designed, they will be reviewed by WDFW as described above. The project reviews will be used to inform project plans. In every case, WDFW will adopt all reasonable measures to avoid, minimize, or mitigate impacts to any archaeological or cultural resources should any be present at the project location.

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. [\[help\]](#)  
See attached maps for street names and highways

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? [\[help\]](#)  
Units in the urban areas are served by public transit, but a majority of the units are in rural areas and are not accessible via public transit. These units range from 5 minutes away to 30 minutes away from the nearest transit stop.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#) N/A

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). [\[help\]](#) N/A

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [\[help\]](#) N/A

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? [\[help\]](#) N/A

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? **No** If so, generally describe. [\[help\]](#)

h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#) N/A

**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)? **No** If so, generally describe. [\[help\]](#)

b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)  
N/A

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

a. Circle utilities currently available at the site: [\[help\]](#)  
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,  
other \_\_\_\_\_  
None

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. [\[help\]](#) N/A

**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: Lauri Vigue

Name of signee Lauri Vigue

Position and Agency/Organization Environmental Planner - WDFW

Date Submitted: 9/2/21

**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? [N/A](#)

Proposed measures to avoid or reduce such increases are: [N/A](#)

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

[The goals of this wildlife area management plan are to:](#)

[Maintain or improve ecological integrity of priority sites. Improve ecological integrity of forests while maintaining and/or improving habitat for wildlife.](#)

[Achieve species diversity at levels consistent with healthy ecosystems.](#)

[Maintain waterfowl and migratory bird management.](#)

[Manage for wildlife conflict.](#)

[Protect and restore estuarine, nearshore, and riparian habitats on the wildlife area for salmonid recovery.](#)

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

[See management plan for a complete list of goals, objectives and performance measures.](#)

[Maintain or improve ecological integrity of priority sites. Improve ecological integrity of forests while maintaining and/or improving habitat for wildlife.](#)

[Achieve species diversity at levels consistent with healthy ecosystems.](#)

[Maintain waterfowl and migratory bird management.](#)

[Manage for wildlife conflict.](#)

[Protect and restore estuarine, nearshore, and riparian habitats on the wildlife area for salmonid recovery.](#)

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

[N/A](#)

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

[N/A](#)

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?

[The goals of this plan \(outlined above\) provides protection and enhancement for fish and wildlife including Oregon spotted frog, western pond turtle, waterfowl, and salmonids.](#)



Habitats enhanced under this plan include oak prairie, riparian, nearshore, floodplain, estuary, and forest.

Proposed measures to protect such resources or to avoid or reduce impacts are:  
See management plan (Goals, objectives, and performance measures) for South Puget Sound Wildlife Area.

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?  
This management plan provides protection and enhancement measures primarily for forests, riparian, estuary, nearshore, floodplain, and wetland systems located on most units of the wildlife area.

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

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

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

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.  
This management plan meets all federal, local and state requirements for protection of the environment.