

TECHNICAL MEMORANDUM

November 16, 2022, Revised November 22, 2024

То:	Mr. Ali Taysi AVT Consulting 1708 F Street Bellingham, WA 98225
From:	Courtney Straight, B.S., WPIT Wetland & Wildlife Biologist Raedeke Associates, Inc.
	Richard W. Lundquist, M.S. President Emeritus/Wildlife Biologist Raedeke Associates, Inc.
	Christopher W. Wright, B.S. President/Soil and Wetland Scientist Raedeke Associates, Inc.
RE:	Woods at Viewcrest (fka Jones Family Long Subdivision)
	– Wildlife Habitat Assessment (RAI Project No. 2021-072-002)

This report documents the results of our field investigation at the Woods at Viewcrest (fka Jones Family Long Subdivision) property along Chuckanut Bay in Bellingham, Washington (Figures 1 & 2). The purpose of this investigation is to evaluate current wildlife use and habitat conditions within the study area, as well as evaluate any listed, priority, or other protected species such as bald eagles (*Haliaeetus leucocephalus*) and great blue herons (*Ardea herodias*) in the vicinity of the project site.

This Technical Memorandum is intended for submittal to the City of Bellingham as part of an application by the Jones Family Trust to subdivide the property into 38 buildable lots with single-family homes (Figure 7), as well as create access for an outfall pipe to Chuckanut Bay for stormwater management purposes. Each of the 38 proposed lots includes one single-family home. Raedeke Associates, Inc. staff visited the study area on July 21, 2021, and July 14, 2024. During these field investigations, we documented wildlife presence, usage, and habitat, as well as described the onsite plant communities. We recorded information regarding reproduction, habitat use, and activities of all wildlife species observed. In addition, we noted special habitat features such as large and/or hollow trees, snags [standing dead or partly dead trees at least four inches in diameter at breast height (dbh) and at least six feet tall], and large downed logs.

STUDY AREA LOCATION

The project site consists of a 37.4-acre property, Whatcom County Parcel Nos. 3702130834990000, 3702130755420000, 3702120300040000, and 3702131135500000 in Bellingham, Washington (Figures 1 & 2). This places the property within Sections 12 and 13, Township 37 North, Range 2 East, W.M. Site details received from Ali Taysi (AVT Consulting LLC), on June 7, 2021, determined the property boundaries. Chuckanut Bay is located to the southwest of the project site and Viewcrest Road is located along the northwestern edge with single-family homes on all other sides (Figure 3). The BNSF railroad runs across Chuckanut Bay.

PROJECT DESCRIPTION

The proposed activities at the project site include subdividing the property into 38 buildable lots. Presently, the project site totals 37.4 acres. An application sketch prepared by Pacific Surveying & Engineering, Inc. (Figure 7) shows the proposed subdivision layout.

Lots 1 through 38 are intended to be developed with single-family homes. A conservation easement will protect four existing wetlands and one existing mapped seep. For further reading on the existing wetlands and their associated buffers refer to the report prepared by NW Ecological Services (2023), which serves as an update and addendum to a previous report prepared by Pacific Ecological Consultants (2010). The development of Lots 1 through 38 will likely involve the removal of forest vegetation to create buildable footprints (Figure 7). Because of the current level of residential development near the proposed project site, the parcels have ready access to all the necessary utilities for single-family homes.

All building areas will be located outside of existing mapped wetlands and buffers. The project design also includes a stormwater pipe that runs southeast between Lots 31 and 32 and has a proposed outfall with energy dissipation located above the ordinary high-water line of Chuckanut Bay (Figure 8).

REVIEW OF BACKGROUND INFORMATION

WDFW PHS Database

The current Washington Department of Fish and Wildlife (WDFW 2021a) online Priority Habitats and Species (PHS) database map depicts six PHS entries within a 1,000-foot radius of the project site (Figure 3). The first area is habitat/presence of hardshell clam (*Mercenaria mercenaria*) mapped within Chuckanut Bay along the shoreline of the project site. The next is an area of shorebird concentrations mapped along the shoreline of the project site. The third mapped PHS occurrence is the habitat/presence of Dungeness crab (*Cancer magister*) mapped approximately 400 feet south of the project site. An estuarine and marine wetland is mapped along the shoreline of the project site. A biodiversity area and corridor is mapped approximately 125 feet southwest of the project site at the Chuckanut Village Open Space. Lastly, freshwater forested/shrub wetlands are mapped approximately 800 feet northeast in the Chuckanut Bay Open Space (North).

The occurrences of hardshell clam, shorebird concentrations, and estuarine and marine wetland are the only PHS entries that intersect with the project site. All of these entries exist only at the shoreline along the southeast edge of the project site.

A WDFW (2024) PHS sensitive species data request confirmed that no sensitive species data are located on the project site (Appendix A).

WDFW SalmonScape Database

The current Washington Department of Fish and Wildlife (WDFW 2021b) online SalmonScape database map depicts Chuckanut Creek, approximately 2,000 feet east of the project area, as having the documented presence of listed Winter steelhead, non-listed Residential Coastal Cutthroat trout, spawning habitat for non-listed Fall Chum salmon, and rearing habitat for non-listed coho salmon (Figure 4). Chuckanut Bay, including the shoreline of the project area, is accessible to these species and other salmonid species that are present in the Salish Sea. No salmonid species are indicated as present within the forested portions of the project site (Figure 4).

Washington Natural Heritage Program and Wetlands of High Conservation Value

The Washington Natural Heritage Program (WDNR 2021) database indicates the presence of natural heritage features within the section, township, and range of the project area (Figure 5). The Wetlands of High Conservation Value indicates the presence of beard lichen, a state imperiled plant located approximately 3,000 feet east of the project site in the vicinity of Arroyo Park. No identified natural heritage features are indicated as occurring in the immediate vicinity of the project site.

Water Quality Atlas

The Washington Department of Ecology (2024) Water Quality Atlas identifies a portion of Chuckanut Bay adjacent to the southwestern portion of the project site as a Category 2 water for Benzo(a)anthracene, Benzo(b)fluoranthene, and Polychlorinated Biphenyls (PCBs) (Figure 9). Chuckanut Creek is approximately 2,000 feet southeast of the project site across tidal mudflats, and is listed as a Category 5 water for Dissolved Oxygen and Bacteria – Fecal Coliform, and as a Category 2 water for Temperature and pH. The proposed project will not increase fecal coliform levels within Chuckanut Creek as all sewage will be routed to the City of Bellingham's sewer system. In addition, the proposed stormwater treatment for the project utilizes the best available science and WDOE standards for stormwater treatment. The enhanced treatment proposed for the project exceeds the basic requirements of the City of Bellingham code. As such, we do not anticipate any impacts to the impaired water body from the project.

Marine Nearshore Connectivity Study

The City of Bellingham (2014) Marine Nearshore Connectivity Study evaluated marine and nearshore habitat connectivity within 200 feet landward of the marine OHWM and 200 feet waterward of the marine OHWM. The coastline of the City of Bellingham was divided into 20 Evaluation Units (EUs). The marine and nearshore areas adjacent to the project site were identified as EU19 and include the entire reach of Chuckanut Bay northeast of the BNSF railroad crossing. EU19 received the third-highest overall score out of the 20 EUs. High score EUs have minimal development with strong connections between the marine riparian zone and the beach along with a lack of docks or other overwater coverage.

The proposed project will avoid development within 200 feet landward of the marine OHWM mark. In addition, while lots will extend up to this 200-foot buffer, homes will only be built in the northern portions of these lots, with restrictions on development in the southern portions, resulting in an effective buffer of 300 to 400 feet landward of the OHWM of the shoreline. Therefore, the project will not adversely affect the marine nearshore connectivity.

Wildlife Corridor Analysis Report

The City of Bellingham (2021) Wildlife Corridor Analysis Report identifies important habitat hubs and wildlife corridors within the city limits using three focal terrestrial species with varying habitat needs. The focal species are red-legged frog, Douglas squirrel, and brown creeper. There is no habitat identified on the project site for the red-legged frog. The forest within the project site is identified as an Important Habitat Hub for the Douglas squirrel and brown creeper, particularly within the shoreline forest. In addition, the project site is identified as an Important Wildlife Habitat Area within the City's overall Terrestrial Wildlife Habitat Network. Adjacent areas to the northeast and southwest are identified as Important Wildlife Corridors. The proposed project will avoid and protect at least 200 feet of the area within the marine OHWM, and another 100

to 200 feet of the proposed lots abutting those areas will have restrictions on development. The proposed project will impact habitat on the site to the minimum amount practicable.

Habitat Restoration Technical Assessment

The City of Bellingham (2015) Habitat Restoration Technical Assessment identifies and evaluates habitat types within watersheds and prioritizes restoration actions in each watershed. Habitats were evaluated by scores of lowest, lower, median, higher, and highest. The forest block within the project site is identified as having a highest score for overall biodiversity function with a higher score for system maturity attributes, a highest score for lifeform diversity attributes, and a highest score for habitat community attributes as identified in the study. The forest block has received a highest score for overall habitat maintenance function with highest scores for both habitat connection and fragmentation attributes and vegetation structure attributes.

The project site is located within the Chuckanut Creek watershed unit, ranked 27 out of 28 for prioritizing wetland habitat restoration action through wetland and buffer restoration and enhancement. The watershed is ranked 2 out of 28 for prioritizing wetland habitat protection actions including permanent protection and regulatory protection.

The Chuckanut Creek watershed was identified as a lower priority for riverine, wetland, and combined riverine and wetland restorative actions and as a highest priority for riverine, wetland, and combined riverine and wetland protective actions. The sub-watershed was given a Tier 1 final prioritization status due to the highest riverine and wetland rankings and high fish use. The highest ranked forest blocks within the watershed for protective actions include blocks 004 and 006 but do not include block 007 where the project site is located. The project will not result in any direct or indirect impacts to the wetlands on the project site. These areas are to be protected as part of the proposed site development application. To ensure the protection of onsite habitats, the project will preserve approximately 300 to 400 feet of forest along the shoreline to maintain habitat and connectivity in the area.

EXISTING CONDITIONS

Vegetation and Habitat Description

The site generally consists of well-developed forest vegetation of varying composition and structure and is bordered by residential housing on the west, north, and east, and by Chuckanut Bay on the southeast (Figure 6). The northeastern corner of the project site generally consists of an overstory of bigleaf maple (*Acer macrophyllum*), Oregon ash (*Fraxinus latifolia*), and red alder (*Alnus rubra*) as large as 12 inches dbh. Some willows (*Salix spp.*) and occasional western red cedars (*Thuja plicata*) are also present. The shrub layer is characterized by common snowberry (*Symphoricarpos albus*), oceanspray (Holodiscus discolor), and osoberry (Oemleria cerasiformis), with some English holly (Ilex aquifolium), Himalayan blackberry (Rubus armeniacus), and red huckleberry (Vaccinium parvifolium). The low understory consists of sword fern (Polystichum munitum), poison hemlock (Conium maculatum), trailing blackberry (Rubus ursinus), Canada thistle (Cirsium arvense), herb Robert (Geranium robertianum), common rush (Juncus effusus), creeping buttercup (Ranunculus repens), English ivy (Hedera helix), salal (Gaultheria shallon), and dull Oregon grape (Mahonia nervosa). The far northeastern corner of the site has larger trees including a small number of mature red alders and bigleaf maples ranging up to 18 inches dbh. This area also has a higher proportion of Himalayan blackberry than other portions of the site.

The sloping area at the eastern edge of the site that contains four delineated wetlands (Figure 6) is characterized by steeper topography and a dense shrub layer with salmonberry (*Rubus spectabilis*), bracken fern (*Pteridium aquilinium*), skunk cabbage (*Lysichiton americanus*), Himalayan blackberry, large leaf avens (*Geum macrophyllum*), field horsetail (*Equisetum arvense*), and beaked hazelnut (*Corylus cornuta*).

The southeastern portion of the site is characterized by a higher proportion of deciduous trees mixed with Douglas-fir and western redcedar on steeper slopes. There is a dense understory of salal, snowberry, bracken fern, and Himalayan blackberry. An area near the southeastern corner of the site contains one of the four delineated wetlands and was observed with areas of relatively damp soils, and some skunk cabbage plants. In this area of the site, we also observed a very large 35-inch dbh Douglas-fir tree.

The southern portion of the site has a forest characterized by Pacific madrone (*Arbutus menziesii*) and Douglas-fir overstory with some serviceberry, willows (*Salix sp.*), and western hemlock (*Tsuga heterophylla*). A portion of the area contains a deciduous forest with rocky outcroppings and very steep slopes and many hiking and game trails. Within this portion of the site a fire created an open understory and scorched the bottoms of tree trunks. A small number of snags that are approximately 18 inches diameter at breast height exist at the toe of the steep slopes along the southern boundary of the site.

The vegetation in the southwestern corner of the site includes a substantial amount of salal with patches of native rose (*Rosa sp.*) and scotch broom (*Cytisus scoparius*). We also noted a 45-inch dbh Douglas-fir along the southwestern edge of the site that may be located just off-site.

The central portion of the site is characterized by many hummocks with a deciduous canopy of red alder, Sitka willow (*Salix sitchensis*) and black cottonwood (*Populus balsamifera*).

The northwestern corner of the site is characterized by a tree canopy of Douglas-fir, western hemlock, and western redcedar with an open understory dominated by western sword fern. The trees are generally younger and smaller than other areas on the site. The area contains a small number of 23-inch-dbh Douglas-firs and 17-inch-dbh western

hemlocks, but most trees are 8 to 10 inches dbh. Some areas in the northwestern portion of the site are also characterized by some larger openings in the overstory and a high percentage of deciduous cover.

The northern edge of the site has a 42-inch dbh black cottonwood. Some stinging nettle is also present in the understory of this area.

The shoreline along the southern edge of the project site is very rocky with large boulders covered with barnacles, clams, and oysters.

A walking path extends through much of the project site that appears to be in use by the local neighbors and their dogs. We observed extensive signs of human activity including tree forts, graffiti, and trash. Many abandoned gravel roads extend throughout the site as well. During our site visit, we also documented the noises from nearby homes, the sounds of passing vehicles on roadways and passing trains.

Special Habitat Features

Special habitat features include biologic elements such as edges between plant communities or successional stages, snags, and coarse woody debris, which are often important to wildlife (Brown 1985, Johnson and O'Neil 2001, Thomas and Verner 1986). The most distinct edges on the project site were those between the forest habitat and shoreline of the bay, as well as edges between forest and shrub-dominated areas. Edge habitats often support a variety of species adapted to both adjacent habitats.

Snags (dead or partly dead trees at least 4 inches dbh and 6 feet tall) are important to many wildlife species (Cross 1986, Neitro et al. 1985, Scott et al. 1977 in Ohmart and Anderson 1986), for nesting, feeding, and roosting. Throughout the project site we found many snags with evidence of woodpecker excavations. The northeastern corner of the site contains a 5-inch dbh snag approximately 7 feet tall with potential evidence of nesting by cavity-nesting species, but we observed no evidence of current occupation. The southeastern corner of the site contains a red alder snag nearby approximately 22 inches dbh with a potential hairy or downy woodpecker nesting excavation that does not appear to currently be in use. We also found an approximately 40-inch dbh broken-top stub in the southwestern corner of the site that has several potential nesting excavations, but no signs of current nesting were observed. The western edge of the site has three or four snags including one with an approximately eight-inch by 5-inch cavity opening that has nesting potential for owls or other large cavity nesting birds.

Coarse woody debris includes downed logs and major limbs of trees lying on the ground. Downed logs provide many habitat features, including perch sites, food, nest cavities, and cover for many species, such as some amphibians (Jones 1986). In the slope wetland area on the eastern edge of the site, we found an approximately 38-inch dbh downed Douglas-fir (*Pseudotsuga menziesii*) that appears to have been cut and shows signs of wildlife activity in the area including many types of feathers and scat. An old gravel road in the western central portion of the site has a large concentration of downed woody debris that would provide some value to wildlife. Small concentrations of downed woody debris also occur in the northeastern corner of the site.

Wildlife Observations

The project site and the surrounding lands provide habitat for a wide variety of native animal species common to young forests, successional shrublands, and palustrine wetlands of the Puget Sound lowlands. Not all the species regularly found in lowland habitats of the Puget Sound area would necessarily inhabit the project site and vicinity, but a variety of species is expected to occur in the habitats found on site. Some species expected to occur on site possibly do so in low numbers or only during certain times of the year. Species likely to be present on this site would also be expected in similar habitats in other areas of the Puget Sound lowlands. During our field investigations, we observed 28 wildlife species, or signs thereof (Table 1).

We observed several snags with cavities that could be used by cavity nesting birds throughout the site. We also saw a stick nest near the center of the site approximately 25 feet high in a Douglas-fir that appeared to be constructed of one-eighth inch thick sticks. The nest was approximately one and one-half feet wide and one foot deep. Two juvenile barred owls (*Strix varia*) were found near the nest but not on the nest tree. It is possible this stick nest belonged to the barred owls, but we cannot be certain as the juvenile owls had already fledged and were quite mobile during our site visit. A pair of Cooper's hawks (*Accipiter cooperii*) were also observed in the northeast corner of the site along Viewcrest Road.

We revisited the site on July 14, 2024, to investigate eagle nests on or near the project site. A bald eagle nest (Nest 1) was observed approximately 100 feet offsite southeast of the project site. There was no eagle activity observed at the nest during our site visit, but we noted that the nest appeared to be well-established. The nest is approximately 350 feet southeast of the Lot 37 building area and at least 700 feet from any other building area. Another eagle nest (Nest 2) was observed offsite approximately 700 feet to the southwest of the project site, west of the BNSF railroad. The nest had two juvenile bald eagles on or near the nest which appeared active. It is possible that the inactive nest (Nest 1) is either a former nest or an alternate nesting site. According to the National Bald Eagle Management Guidelines (USFWS 2007), an alternate nest is "a nest that is not used for breeding by eagles during a given breeding season." Both active and alternate nests are protected by the Bald and Golden Eagle Protection Act, but timing restrictions can be used to avoid nest disturbances during the breeding season. Only activities at Lot 37 may cause nest disturbances, as the rest of the work areas are unlikely to cause disturbances as they are farther away from the nests and have ample tree screening.

The neighborhoods near the nests have several permitted home construction or remodel projects in progress, which already produce noise near the nests. In addition, the BNSF railroad crosses Chuckanut Bay and produces higher noise levels in the area. Noise from the proposed project is not likely to exceed ambient noise levels in the area. It should be noted that blasting may be needed to construct road and utility infrastructure in certain limited areas. If blasting is necessary, it will occur outside of the bald eagle breeding season to avoid nest disturbances.

We also saw no evidence of great blue heron nesting activity, but we did see three great blue herons perching in the trees overlooking the bay along the southeastern edge of the project site. Broken shells of clams, mussels, etc. are present throughout the southern edge of the site, overlooking the shoreline and could be foraging remains of herons, racoons, crows, or similar species. We did not observe any other wildlife species or their sign during our field investigation.

EVALUATION OF IMPACTS OF THE PROPOSED PROJECT

As outlined above, the proposed project involves development of the site into singlefamily residential housing (Figure 7), which is a type of urbanization. The process of urbanization will affect the existing plant and animal communities in three ways: (1) direct changes in and loss of the habitats available; (2) increase in human use and disturbance associated with the roadway; and (3) potential for changes in the hydrologic characteristics of the site, with potential for impacts to wetland and riparian communities (both plants and animals).

Residential development is a process of habitat alteration that changes the characteristics of the plant communities and the habitat available for wildlife. The major features of urbanization include loss of vegetation, isolation or fragmentation of remaining vegetation patches, replacement of native vegetation with ornamental species, removal of snags and downed logs, potential for increase in the use of pesticides, insecticides, and herbicides, the presence of "super" predators (domestic dogs and cats), and increased noise and other disturbance factors (Thomas et al. 1974, Penland 1984, Adams et al. 1985).

Impacts on Vegetation Communities

Development of the site under the proposed plan would remove some of the mixed forest vegetation in the northern portions of the site for construction of homesites, roads, and associated facilities and convert it to buildings and other impervious surfaces, as well as landscaped areas with ornamental plantings. Some trees and other forest vegetation would likely be retained in the developed area but would become more fragmented into smaller patches and function as edge habitat.

The proposed site plan includes designated open space tracts to retain a 200-foot forested buffer along the shoreline of Chuckanut Bay and to encompass the mapped wetlands and their buffers in the eastern portion of the site. This would retain a substantial area of dense conifer forest along the shoreline, as well as the mapped wetlands and their buffers. However, 9,100 square feet of unavoidable impacts to the buffers for Wetlands A and B and the shoreline buffer are proposed along with 9,100 square feet of buffer enhancement (NES 2024a).

The proposed development would require the removal of many large, established trees and likely some snags and downed logs across the project area. However, the retained open space areas along the shoreline and encompassing the mapped wetlands would retain many of the observed snags, and downed logs, as well as some of the largest trees observed on-site.

Impacts on Wildlife

Impacts of constructing the proposed development include both temporary impacts during construction and longer-term impacts of habitat alteration. Construction related impacts include increases in noise, dust, human activity, temporary disturbance of vegetation for staging areas, potential erosion and sediment transport from exposed soils, and other potential water quality impacts. These can alter animal behavior, causing avoidance of adjoining habitats, alteration of movement and dispersal patterns, abandonment of nest sites, reduced breeding success, and increased mortality.

Elimination of native vegetation cover and replacement with impervious surfaces and landscaped areas would displace animals inhabiting those areas, would reduce the local populations of native species to a limited degree, and may make the area less suitable for other native wildlife species. Planted ornamentals often support far fewer insect species per unit area than native vegetation due to a smaller amount foliage (less foliage volume) and simpler vegetation structure. Landscaped areas along the roadways throughout the development would likely be managed to limit the growth of tall woody vegetation. Developed landscapes can often facilitate the spread of exotic invasive species (both plants and animals). No invasive species would be included in the proposed landscaping of the development.

This proposed site plan would likely affect wildlife species common to western Washington habitats and is not expected to adversely affect state or federally listed or other priority species. The species observed on site are all common to local habitats and have a demonstrated tolerance to human disturbance. For example, we observed the Cooper's hawks calling to each other along Viewcrest Road as cars drove past, and the barred owls observed on-site began vocalizing and did not flush from their perches as we walked directly beneath them. The proposed site plan (Figure 7) would provide a vegetated 200-foot buffer between the homes and the shoreline and create a conservation easement for the wetlands present on the project site, which would retain a substantial area of native forest and shrub habitat on site. As outlined below in the "Mitigation" section of this report, lots will extend up to this 200-foot buffer, but homes will only be built in the northern portions of these lots, with restrictions on development in the southern potions, creating an effective buffer of 300 to 400 feet from the ordinary high-water mark of the shoreline, depending on the lot. This would retain many snags, the steep talus slopes, and all the large established perching trees along the bay, which were many of the most unique habitat features at the project site.

Impacts to Endangered, Threatened, Sensitive, and Other Priority Species

The proposed development is not expected to adversely affect state or federally listed species, as none are expected to occur on site. Other priority or protected species observed on site or in the vicinity include pileated woodpecker, great blue heron, and bald eagles. No active nest or roost cavities of pileated woodpeckers (a state Candidate species) were observed on site. We saw bald eagles flying off-site over the bay and great blue herons perching near the shore in the southeastern corner of the site; however, we did not observe any nesting activity or active nest sites of these species within the vicinity of the currently proposed project site. Retention of a 200-foot forested area along the shoreline, as well as protection of the mapped wetlands and their buffers in the eastern part of the site, would retain substantial perch sites for raptors and herons, including the area where the herons were observed during our site investigation. In addition, foraging areas for herons and eagles in the bay, including habitat for clams and shorebirds shown on the WDFW (2021a) PHS maps, would not be impacted by the proposed development. Consequently, we do not expect the proposed development to adversely affect these species.

Chuckanut Bay Tidelands shellfish harvesting is closed for clams, oysters, and mussels year-round in all areas northwest of the BNSF railroad (WDFW 2024; WSDOH 2024). Due to biotoxins and pollution, shellfish in the bay are not fit for human consumption at any time. Therefore, no recreational shellfish harvesting is permitted in the receiving waterbody and the proposed project will not impact recreational shellfish harvesting in the Chuckanut Bay Tidelands.

Removal of trees and clearing of understory as part of the proposed site plan would cause the displacement of some individuals of common species. However, the conservation easement area (including the critical areas and buffers contained therein) and the 200-foot vegetated buffer between the lots and the shoreline, we anticipate minimal impacts to common local existing wildlife habitat or special habitat features on the project site as a result of the proposed site plan. The observed use of perching on larger trees on the southeastern border of the project site by herons would not be impacted by the currently proposed development. Similarly, development of the site is not expected to affect endangered, threatened, or sensitive animal species, as none are expected to occur there.

MITIGATION

Mitigation has been defined by the State Environmental Policy Act (SEPA) (WAC 197-11-768; cf. Cooper 1987), and subsequently in a Memorandum of Agreement between the Environmental Protection Agency and the COE (Anonymous 1989). In order of desirability, mitigation may include:

- <u>Avoidance</u> avoiding impacts by not taking action or parts of an action;
- <u>Minimization</u> minimizing impacts by limiting the degree or magnitude of the action and its implementation;
- <u>Compensatory Mitigation</u> may involve:
 - a) repairing, rehabilitating, or restoring the affected environment;
 - b) replacing or creating substitute resources or environments;
 - c) mitigation banking.

Avoidance and Minimization of Impacts

The proposed development (Figure 7) incorporates a number of measures to avoid or minimize potential impacts on plants and fish and wildlife habitat:

- The project would avoid direct impacts to all mapped critical areas, including mapped wetlands on site, as well as the shoreline of Chuckanut Bay. The proposed site plan would retain the mapped wetlands and their buffers within a conservation easement in the eastern portion of the site.
- The plan also includes retention of existing forest habitat in a 200-foot zone of open space tract along the bay. The development lots will extend up to this 200-foot jurisdictional line, but homes will be situated along the northern portions of these lots, with restrictions on developing the southern portions of the lots, creating an effective buffer and area of retained vegetation along the shoreline of between 300 and 400 feet, depending on the lot.
- Construction limits, including staging areas, would be clearly marked in the field prior to beginning construction activities.
- To the extent feasible, construction staging areas would be located outside of wetland and shoreline buffers to minimize impacts to vegetation.
- No temporary impacts are expected to occur to critical area buffers. However, if any unforeseen temporary impacts occur during construction, the buffer areas would be revegetated with a mixture of native plant species following completion of construction activities.

- Appropriate BMPs and TESC measures would be implemented in accordance with an approved SWPPP, consistent with standards of the local stormwater manual (or that in effect at the time of permitting), including specific measures to prevent and control spills of pollutants, and to handle, control, and store potential contaminants. In addition, enhanced stormwater treatment will be incorporated per the WDOE manual for all stormwater exiting from the site.
- Upland stormwater management via dispersion in native vegetated areas will be employed within the project site as conditions allow to minimize/avoid impacts to the shoreline area. The project will provide a stormwater conveyance system that will have an outfall located above the ordinary high-water mark of Chuckanut Bay. Dispersion methods will meet Washington State Department of Ecology approved BMP's, and include energy dissipation via a gabion structure at the end of a piped conveyance to avoid downstream erosion or impacts to the shoreline (Figure 8). This outfall area and energy dissipater will be located above the Mean High Water Mark and Ordinary High Water Mark.

Recommended and Other Potential Mitigation Measures

For the proposed development project, additional measures to avoid or minimize the potential impacts to wildlife could include the following:

- Avoid any increase in levels of human activity and disturbance within the 200foot shoreline buffer. Avoid installing any formal walking trails in this area to reduce disturbance to wildlife from regular human and pet activity. Keeping disturbance levels as similar as possible to baseline levels before any development will help prevent negative impacts on local wildlife communities.
- Retain as many large, healthy trees on-site as possible to promote overall plant species diversity and retain soil stability and habitat functionality. This will also help retain wildlife habitat functions such as nesting and perching platforms. This is especially true of the southeastern edge of the project site, along Chuckanut Bay. The 200-foot retention buffer will help to retain habitat functionality along this area, but retaining any other large trees beyond that buffer, when possible, will further enhance this effort.
- For any replanting that may take place at the project site, focus on planting Pacific Northwest native plant species and reduce the use of non-native ornamental species or cultivars as much as possible.
- Wherever possible, improve the functionality of the local plant community by removing invasive plants such as Himalayan blackberry, holly, and ivy. Any removal of invasive plants that must take place in the spring before fruiting or seeding should be conducted without the use of power tools or heavy equipment

wherever possible to avoid any disturbance to potential nesting species on or near the project site.

• In general, where feasible, schedule clearing and grading activities during the dry season to avoid or minimize the potential for erosion and sediment deposition. However, if active nests of protected species such as bald eagles or great blue herons are discovered on site, measures to avoid or minimize disturbance on Lot 37 during the nesting season (Azzerad 2012, U.S. Fish and Wildlife Service 2007) may need to be implemented.

LIMITATIONS

We have prepared this report for the exclusive use of The Jones Family Trust and their consultants. No other person or agency may rely on the information, analysis, or conclusions contained herein without permission from Mr. Ali Taysi.

The determination of ecological system classifications, functions, values, and boundaries is an inexact science, and different individuals and agencies may reach different conclusions. We cannot guarantee the outcome of such determinations. Therefore, the conclusions of this report should be reviewed by the appropriate regulatory agencies.

We warrant that the work performed conforms to standards generally accepted in our field and has been prepared substantially in accordance with then-current technical guidelines and criteria. The conclusions of this report represent the results of our analysis of the information provided by project proponent and their consultants, together with information gathered in the course of this study. No other warranty, expressed or implied, is made.

Thank you for the opportunity to prepare this information. If you have any questions, comments, or need additional information, we are available at 206-525-8122 or via email at cstraight@raedeke.com.

LITERATURE CITED

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Figures and Tables



FIGURE 1 - Regional & Vicinity Map Jones Family Long Subdivision, Bellingham WA



Whatcom County Parcel Nos. 370212030004, 370213075542, 370213083499, 370213113550

Bellingham, WA

RAI PROJECT: 2021-072-001

PREPARED: 08/17/2021 BY: CLS 2111 N. Northgate Way, Suite 219 Seattle, WA 98133

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FIGURE 2 - Whatcom County Parcel Vlewer Jones Family Long Subdivision, Bellingham WA



Whatcom County Parcel Nos. 370212030004, 370213075542, 370213083499, 370213113550

Bellingham, WA RAI PROJECT: 2021-072-001

PREPARED: 08/17/2021

BY: CLS

Raedeke Associates, Inc. 2111 N. Northgate Way,

Suite 219 Seattle, WA 98133







FIGURE 4 - WDFW SalmonScape Jones Family Long Subdivision, Bellingham WA



Whatcom County Parcel Nos. 370212030004, 370213075542, 370213083499, 370213113550

Legend: Fish Distribution

All SalmonScape Species

SOURCE INFORMATION: Washington Fish and Wildlife Salmonscape Online Mapping tool http://apps.wdfw.wa.gov/salmonscape/map.html

Bellingham, WA RAI PROJECT: 2021-072-001

PREPARED: 08/17/2021

BY: CLS

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FIGURE 5 - WA DNR Wetlands of High Conservation Value Jones Family Long Subdivision, Bellingham WA

Whatcom County Parcel Nos. 370212030004, 370213075542, 370213083499, 370213113550

Bellingham, WA RAI PROJECT: 2021-072-001



Nown Rare Plants and Nonvascular Species of High Conservation Value Counties

Legend:

PREPARED: 08/17/2021

BY: CLS

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Figure 6. Jones Family Long Subdivision Bellingham - Existing Conditions

Map Created By: A. Rossi Date Created: 20 October, 2021 RAI Project Number: 2021-072-001



THE WOODS AT VIEWCREST - PROPOSED BUILDING ENVELOPE & EXISTING CAO AREAS

LEGAL DESCRIPTION:

PARCEL 1:

LOT B, AS DELINEATED ON ROGAN JONES 2 SHORT PLAT, ACCORDING TO THE SHORT PLAT RECORDED APRIL 10, 1992, UNDER AUDITOR'S FILE NO. 920410201, RECORDS OF WHATCOM COUNTY, WASHINGTON; EXCEPT THAT PORTION LYING WITHIN THE BOUNDARIES OF THE TRACT OF LAND DESCRIBED IN DEED TO DARRELL G. KAPP, ET UX., RECORDED JUNE 15, 1973, UNDER AUDITOR'S FILE NO. 1140332.

SITUATE IN WHATCOM COUNTY, WASHINGTON.

PARCEL 2:

THE EAST 750 FEET OF THE NORTH 700 FEET OF GOVERNMENT LOT 1, SECTION 13, TOWNSHIP 37 NORTH, RANGE 2 EAST W.M.; EXCEPT LOT 3, BLOCK 16, AMENDED MAP OF SOUTH FAIRHAVEN, IN THE CITY OF FAIRHAVEN, WASHINGTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 4 OF PLATS, PAGE 49, AND THAT PORTION OF QUINALT STREET ON THE NORTH AND THAT PORTION OF THE VACATED ALLEY ON THE SOUTH WHICH INURED TO SAID LOT 3 UPON THE VACATION THEREOF; FURTHER EXCEPT THAT PORTION LYING WITHIN ROGAN JONES 2 SHORT PLAT RECORDED UNDER AUDITOR'S FILE NO. 920410201;

FURTHER EXCEPT THAT PORTION DECRIBED IN DEEDS TO THE CITY OF BELLINGHAM, RECORDED UNDER AUDITOR'S FILE NO. 1136193, TO DARRELL G. KAPP AND SUSAN KAPP; RECORDED UNDER AUDITOR'S FILE NO. 1140332, TO LARRY DUTTON AND LINDA DUTTON; RECORDED UNDER AUDITOR'S FILE NO. 1190072; AND TO PATRICIA A. FARIS, RECORDED UNDER AUDITOR'S FILE NO. 1245873; FURTHER EXCEPT 40-FOOT WIDE CHUCKANUT AVENUE AS SHOWN ON THE PLAT OF ROGAN JONES 2 SHORT PLAT.

SITUATE IN WHATCOM COUNTY, WASHINGTON.

PARCEL 3:

THAT PORTION OF THE OSUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHOP 37 NORTH, RANGE 2 EAST, W.M., LYING SOUTH OF VIEWCREST ROAD AND WEST OF THE WEST LINE OF THAT CERTAIN TRACT OF LAND DESCRIBED IN DEED TO PATRICIA A. FARIS, RECORDED MARCH 23, 1977, UNDER AUDITOR'S FILE NO. 1245873. SITUATE IN WHATCOM COUNTY, WASHINGTON.

PARCEL 4:

LOTS, BLOCKS, VACATED STREETS AND ALLEYS IN THE AMENDED MAP OF SOUTH FAIRHAVEN, IN THE CITY OF FAIRHAVEN, WASHINGTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 4 OF PLATS, PAGE 49, DESCRIBED AS FOLLOWS:

BLOCKS 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16 AND 17; ALL OF BLOCKS 3, EXCEPT LOT 1 AND LOT 2; TOGETHER WITH ALL ALLEYS IN THE ABOVE-DESCRIBED BLOCKS VACATED BY RESOLUTION OF THE CITY COUNCIL OF BELLINGHAM, WASHINGTON, RECORDED JULY 19. 1912, UNDER AUDITOR'S FILE NO. 159473, AND ALL STREETS AND PARTS OF STREETS VACATED BY THE SAID RESOLUTION, EXCEPT THE SOUTHEASTERLY HALF OF CHUCKANUT AVENUE ABUTTING ON LOTS 1 AND 2, BLOCK 3.

FURTHER EXCEPT THE EAST 750 FEET OF THE NORTH 700 FEET OF GOVERNMENT LOT 1, SECTION 13, TOWNSHIP 37 NORTH, RANGE 2 EAST, W.M.

FURTHER EXCEPT THAT PORTION, IF ANY, LYING WITHIN LOTS OR BLOCKS 113, 114 AND 115, FAIRHAVEN TIDELANDS, OWNED BY THE CITY OF BELLINGHAM. SITUATE IN WHATCOM COUNTY, WASHINGTON.

SURVEY NOTES:

- 1) THIS TOPOGRAPHIC SURVEY WAS PERFORMED AND PREPARED IN ACCORDANCE WITH WAC 332-130-145.
- 2) DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION IN JULY 2020 AND MERGED WITH DATA COLLECTED BY LBS IN 2008.
- 3) EQUIPMENT USED: THEOMAT 00'01.5" EDM: \pm 2 PPM, \pm 3 MM
- 4) HORIZONTAL DATUM: NAD 83/98, WASHINGTON STATE PLANE NORTH ZONE (GRID) PER CITY OF BELLINGHAM CONTROL MONUMENTS 2047 (MONUMENTED S.I. OF VIEWCREST ROAD & FIELDSTONE AVE.) AND 5281 (PRC IN CENTERLINE OF VIEWCREST ROAD)
- 5) VERTICAL DATUM: NAVD88 PER CITY OF BELLINGHAM VERTICAL CONTROL BENCHMARK #2047. ORTHO ELEVATION = 209.12
- CONTOURS DEPICTED HEREON MEET OR EXCEED NATIONAL MAPPING STANDARDS FOR 1-FOOT ACCURACY 6) TOPOGRAPHIC SURVEYS AND HAVE BEEN COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.

CONDUCTIBLE UNDERGROUND UTILITY LOCATES SERVICES WERE PERFORMED AND PAINTED BY WASHINGTON STATE ONE-CALL UTILITY LOCATE SERVICES AND SURVEYED BY PSE FIELD CREWS IN JULY 2020. UTILITIES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THIS SURVEY THAT WERE UNDETECTABLE. ADDITIONAL UTILITY VERIFICATION MAY BE WARRANTED IN AREAS CONSIDERED FOR CONSTRUCTION. AS-BUILTS AND RECORD DRAWINGS WERE USED TO SUPPLEMENT UTILITY INFORMATION WHERE AVAILABLE.

- 8) UTILITY LOCATION AREAS AND LEVEL OF LOCATE ACCURACY WERE DETERMINED BY SURVEYOR AND CLIENT PRIOR TO COMMENCEMENT OF FIELD SURVEY WORK.
- 9) THIS MAP IS NOT INTENDED TO REPRESENT A FORMAL BOUNDARY SURVEY, NOR DOES IT REFLECT ELEMENTS THAT A BOUNDARY SURVEY MAY DISCLOSE. BOUNDARY RELATED ELEMENTS DEPICTED HEREON ARE SHOWN PER 2008 LBS SURVEY OF SUBJECT PROPERTIES.
- 10) WETLANDS SHOWN HEREON DELINEATED IN JUNE 2020 BY NORTHWEST ECOLOGICAL AND SURVEYED BY PACIFIC SURVEYING AND ENGINEERING IN JULY 2020.

CALL BEFORE YOU DIG 1-800-424-5555					
REVISION	DATE	DESCRIPTION	ISSUE	DATE	DESCRIPTION
1	8/15/22	REVISED LOT LAYOUT	1	10/14/21	PRELIMINARY PLAT – EXISTING CONDITIONS EXHIBIT (FOR RE
2	9/9/2022	REVISED SUBMITTAL TO ADDRESS CITY RFI	2	10/18/2022	COB RFI REVISIONS
3	10/3/2022	REVISED PUBLIC TRAIL DESIGN			
4	6/9/2023	REVISED SUBMITTAL TO ADDRESS CITY RFI #2			
5	12/1/2023	REVISED SUBMITTAL TO ADDRESS CITY RFI #3			

-VIEWCREST ROAD S. CLARKWOOD DR. 1 OF TRACT 'B' EXISTING SHARED DRIVEWAY





BELLINGHAM, WA 98229

SITUATE IN A PORTION OF THE SW 1/4 OF THE SW 1/4 OF SECTION 12, AND THE NW 1/4 OF THE NW 1/4 OF SECTION 13, TOWNSHIP 37 NORTH, RANGE 2 EAST, CITY OF BELLINGHAM, WHATCOM COUNTY, WASHINGTON







FIGURE 9 - WDOE Water Quality Atlas The Woods at Viewcrest (fka Jones), Bellingham WA



Whatcom County Parcel Nos. 370212030004, 370213075542, 370213083499, 370213113550

Bellingham, WA RAI PROJECT: 2021-072-001 PREPARED: 10/31/24 BY: CLS

2111 N. Northgate Way, Suite 219 Seattle, WA 98133

Raedeke

Table 1. Wildlife species (or sign thereof) observed at the Woods at Viewcrestproject site during site investigations on July 21, 2021 and July 14, 2024

Common Name	Scientific Name	
American crow	Corvus brachyrhunchos	
American goldfinch	Spinus tristis	
American robin	Turdus migratorius	
Bald eagle (observed flying over bay & offsite to west)	Haliaeetus leucocephalus	
Barred owl	Strix varia	
Belted kingfisher	Megaceryle alcyon	
Black bear (scratch marks observed on trees)	Ursus americanus	
Black-capped chickadee	Poecile atricapillus	
Black-tailed deer	Odocoileus hemionus columbianus	
Brown creeper	Certhia americana	
Cedar waxwing	Bombycilla cedrorum	
Chestnut-backed chickadee	Poecile rufescens	
Cooper's hawk	Accipiter cooperii	
Dark-eyed junco	Junco hyemalis	
Douglas squirrel	Tamiasciurus douglasii	
Eastern cottontail	Sylvilagus floridanus	
Eastern gray squirrel	Sciurus carolinensis	
Glaucous-winged gull	Larus glaucescens	
Great blue heron	Ardea herodias	
Hairy woodpecker	Leuconotopicus villosus	
Northern flicker	Colaptes auratus	
Pileated woodpecker	Dryocopus pileatus	
Red-breasted sapsucker (foraging excavations)	Sphyrapicus ruber	
Spotted towhee	Pipilo maculatus	
Steller's jay	Cyanocitta stelleri	
Swainson's thrush	Catharus ustulatus	
Western wood-pewee	Contopus sordidulus	
Violet-green swallow	Tachycineta thalassina	

Appendix A Response to WDFW PHS sensitive data request

Courtney Straight

From:	Folkerts, Keith E (DFW) <keith.folkerts@dfw.wa.gov></keith.folkerts@dfw.wa.gov>
Sent:	Friday, November 1, 2024 9:00 AM
То:	Courtney Straight
Cc:	Lutes, Lizzi (DFW); Krueger, Morgan (DFW)
Subject:	PHS Data Request: Woods at Viewcrest
Attachments:	Woods at Viewcrest PHS Report.pdf

Courtney,

Thanks for requesting Priority Habitats and Species data from WDFW.

Requests for sensitive (confidential) data from WDFW must be accompanied by a data sharing agreement. No data sharing agreement is needed for non-sensitive data.

The parcels that comprise the Woods at Viewcrest Project at the mouth of Chuckanut Creek do not contain any data that is sensitive. Accordingly, you can get all WDFW's PHS data from publicly available sources.



Attached is a PHS Report created using <u>PHS on the Web</u>. This same information is available as a map service here: <u>https://geodataservices.wdfw.wa.gov/arcgis/rest/services/PHSOnTheWeb/PHSOnTheWebPublic/MapServer</u>.

Unless I hear otherwise, I will cancel your request for a data sharing agreement.

If you want additional details about this area, please contact Lizzi Lutes, WDFW's Area Habitat Biologist for this area. (To find out who the Biologist is for an area, please use this online tool.)

Thanks for safeguarding Washington's fish and wildlife resources.

Keith



Keith Folkerts (he/him) Senior Environmental Planner Priority Habitats and Species Section keith.folkerts@dfw.wa.gov

360-902-2390



Priority Habitats and Species on the Web



Buffer radius: 1000 Feet

Report Date: 11/01/2024, Parcel ID: 3702130834990000

User Comments/Notes:

WDFW's Priority Habitats and Species (PHS) database contain records below for the parcels comprising the Woods at Viewcrest project (370212030004, 370213075542, 370213083499, and 370213113550). For additional information about this area, please contact WDFW's Area Habitat Biologist, Lizzi Lutes at Lizzi.Lutes@dfw.wa.gov.

PHS Species/Habitats Overview:

Occurence Name	Federal Status	State Status	Sensitive Location
Hardshell Clam	N/A	N/A	No
Dungeness crab	N/A	N/A	No
Biodiversity Areas And Corridor	N/A	N/A	No
Shorebird Concentrations	N/A	N/A	No
Esturine Zone	N/A	N/A	No
Estuarine and Marine Wetland	N/A	N/A	No

PHS Species/Habitats Details:

Hardshell Clam		
Priority Area	Presence	
Site Name	Not Given	
Accuracy	NA	
Notes	Not Given	
Source Dataset	Shellfish_Summary	
Source Name	Not Given	
Source Entity	WDFW	
Federal Status	N/A	
State Status	N/A	
PHS Listing Status	PHS Listed Occurrence	
Sensitive	Ν	
SGCN	Ν	
Display Resolution	AS MAPPED	
Geometry Type	Polygons	

Dungeness crab		
Scientific Name	Cancer magister	
Priority Area	Presence	
Site Name	Not Given	
Accuracy	NA	
Notes	Not Given	
Source Dataset	Shellfish_Summary	
Source Name	Not Given	
Source Entity	WDFW	
Federal Status	N/A	
State Status	N/A	
PHS Listing Status	PHS Listed Occurrence	
Sensitive	Ν	
SGCN	Ν	
Display Resolution	AS MAPPED	
Geometry Type	Polygons	

Biodiversity Areas And Corridor		
Priority Area	Terrestrial Habitat	
Site Name	CHUCKANUT VILLAGE OPEN SPACE.	
Accuracy	1/4 mile (Quarter Section)	
Notes	STEEP FORESTED AREA AT NORTH END OF CHUCKANUT BAY. BALD EAGLES USE PERCH SITES IN THIS AREA WHILE HUNTING.	
Source Record	902838	
Source Dataset	PHSREGION	
Source Name	MULLER, TED	
Source Entity	WA Dept. of Fish and Wildlife	
Federal Status	N/A	
State Status	N/A	
PHS Listing Status	PHS Listed Occurrence	
Sensitive	Ν	
SGCN	Ν	
Display Resolution	AS MAPPED	
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00023	
Geometry Type	Polygons	

Shorebird Concentrations			
Priority Area	Regular Concentration		
Site Name	CHUCKANUT BAY		
Accuracy	1/4 mile (Quarter Section)		
Notes	HIGH COUNT WAS 4600+ DUNLINS IN SPRING 1991.		
Source Record	920106		
Source Dataset	PHSREGION		
Source Name	BUCHANAN, JOE		
Source Entity	WA Dept. of Fish and Wildlife		
Federal Status	N/A		
State Status	N/A		
PHS Listing Status	PHS LISTED OCCURRENCE		
Sensitive	N		
SGCN	N		
Display Resolution	AS MAPPED		
ManagementRecommendations	http://wdfw.wa.gov/publications/pub.php?id=00026		
Geometry Type	Polygons		

PHS Report

Esturine Zone		
Priority Area	Aquatic Habitat	
Accuracy	1/4 mile (Quarter Section)	
Notes	ESTVARINE ZONE-COASTAL ZONE ATLAS OF WASHINGTON- STRONGLY INFLUENCED BY THE MARINE ENVIRONMENT AND CAN BE DISTINGUISHED BY A BRANCHING CHANNEL PATTERN IN A BROAD FLAT VALLEY. CZA CODE 511.	
Source Record	904711	
Source Dataset	PHSREGION	
Source Name	JOHNSON, TERRY	
Source Entity	WA Dept. of Fish and Wildlife	
Federal Status	N/A	
State Status	N/A	
PHS Listing Status	PHS Listed Occurrence	
Sensitive	Ν	
SGCN	Ν	
Display Resolution	AS MAPPED	
ManagementRecommendations	http://wdfw.wa.gov/conservation/habitat/planning/ahg/index.html	
Geometry Type	Polygons	

Estuarine and Marine Wetland		
Priority Area	Aquatic Habitat	
Site Name	N/A	
Accuracy	NA	
Notes	Wetland System: Estuarine and Marine Wetland - NWI Code: E2USN	
Source Dataset	NWIWetlands	
Source Name	Not Given	
Source Entity	US Fish and Wildlife Service	
Federal Status	N/A	
State Status	N/A	
PHS Listing Status	PHS Listed Occurrence	
Sensitive	N	
SGCN	N	
Display Resolution	AS MAPPED	
ManagementRecommendations	http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html	
Geometry Type	Polygons	

DISCLAIMER. This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.