



**CRITICAL AREA REPORT
AND
BUFFER AVERAGING PLAN**

FOR

TAYLOR-WEST

Wetland Resources, Inc. Project #22220

Prepared By

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1.0 INTRODUCTION

Wetland Resources, Inc. (WRI) performed a site investigation on October 7, 2022, to determine the presence or absence of wetlands and streams on and near the aforementioned Jefferson County Tax Parcel, in the city limits of Port Townsend, WA. Rainier Street is located along the east property line and the unimproved right-of-way of 6th Street borders the site on the north. Access to the site is provided directly from Rainier Street. The Public Land Survey System (PLSS) locator for the property is Section 9, Township 30N, Range 1W, W.M.



Figure 1 - Aerial view of the subject property.

2.0 SITE DESCRIPTION

Access to the site is via the existing improved right-of-way of Rainier Street. No structures are currently located within its boundary. The overall topography is a slight north aspect with minor undulations throughout and a shallow depression along the northern property boundary. On-site vegetation generally consists of an overstory of Douglas fir, quaking aspen, Scouler's willow, and an understory of Himalayan blackberry, thimbleberry, salmonberry, Nootka rose, English ivy, and bracken fern. Surrounding land uses consist of commercial uses, maintained pasture, and larger lot residential.



Figure 2 – Photos of subject property.
Looking south along Rainier Street

Looking west along 6th Street unimproved ROW

One wetland (Wetland A) was identified as part of this investigation. As required by Port Townsend Municipal Code (PTMC) 19.05.110 (B) this wetland was rated according to the Washington State Wetland Rating System for Western Washington (2014) or as revised by Ecology (Rating System). Utilizing the Rating System, the on-site wetland is a Category IV with a total score of 15 and a habitat score of 4. PTMC 19.05.110(G) designates 50-foot protective buffers from Category IV wetlands adjacent to high intensity land uses.

3.0 REVIEW OF EXISTING INFORMATION

PUBLIC INFORMATION

Prior to conducting the site visit, publicly available information was reviewed to gather background information on the subject property and the surrounding area in regards to wetlands, streams, and other critical areas. These sources include the following:

- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI): The NWI does not depict any wetlands on or near the subject property.
- USDA/Natural Resources Conservation Service (NRCS) Web Soil Survey: The Web Soil

Survey indicates that the subject property is underlain by Clallam gravelly sandy loam, 0 to 15 percent slopes. This unit is not listed as a hydric soil.

- Washington Department of Fish and Wildlife (WDFW) SalmonScape Interactive Mapping System: SalmonScape does not map any streams on or near the subject property.
- WDFW Priority Habitat and Species (PHS) Interactive Map: PHS does not map any Priority Habitats or Species on or near the site.

4.0 WETLAND AND STREAM DETERMINATION METHODOLOGY

4.1 WETLAND DETERMINATION METHODOLOGY

Wetland boundaries were determined using the approach described in *the Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (U.S. Army Corps of Engineers 2010). Under the routine methodology, the process for making a wetland determination is based on three steps:

- 1) Examination of the site for hydrophytic vegetation (species present and percent cover);
- 2) Examination of the site for hydric soils;
- 3) Determining the presence of wetland hydrology.

Hydrophytic Vegetation Criteria

The manuals define hydrophytic vegetation as the “sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present.” One of the most common indicators for hydrophytic vegetation is when more than 50 percent of a plant community consists of species rated “Facultative” and wetter on lists of plant species that occur in wetlands.

Soils Criteria and Mapped Description

The manuals define hydric soils as “those that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part.” Field indicators are used for determining whether a given soil meets the definition for hydric soils.

Hydrology Criteria

The 2010 Regional Supplement defines wetland hydrology as “areas that are inundated (flooded or ponded) or the water table is less than or equal to 12 inches below the soil surface for 14 or more consecutive days during the growing season at a minimum frequency of 5 years in 10.” During the early growing season, wetland hydrology determinations are made based on physical observation

of surface water, a high water table, or saturation in the upper 12 inches. Outside of the early growing season, wetland hydrology determinations are made based on physical evidence of recent inundation or saturation (i.e. water marks, surface soil cracks, water-stained leaves).

4.2 BOUNDARY DETERMINATION FINDINGS AND CLASSIFICATIONS

4.2.1 Wetland A

Jurisdiction: USACE, City of Port Townsend

Cowardin Classification: Palustrine, Forested wetland, Broad-leaved Deciduous, Saturated

HGM Classification: Depressional

2014 DOE Rating: Category IV (4 points for habitat)

City of Port Townsend Buffer Requirement: 50 feet

Wetland A is a depressional wetland located along the northern portion of the property. Vegetation consists of quaking aspen (*Populus tremuloides*, FACU), Scouler's willow (*Salix scouleriana*, FACW), Nootka rose (*Rosa nutkana*, FAC), and creeping buttercup (*Ranunculus repens*).

From the surface to 10 inches below, soils are very dark gray (2.5Y 3/1) silt loam and from 10 to greater than 18 inches below, the soils are 2.5Y 2.5/1 silt loam with redoximorphic features of dark yellowish brown (10YR 4/6). Although the soil profile does not meet a specific hydric soil indicator, the low chroma is indicative of wetland conditions. At the time of the October site investigation, soils were dry throughout the profile.

Wetland A received an overall score of 15 points on the DOE Rating System, with a habitat functions score of 4 points. Wetlands with overall scores between 9 and 15 are classified as Category IV wetlands. In the City of Port Townsend, Category IV wetlands with 4 habitat points receive buffers of 50 feet adjacent to high intensity land uses.

5.0 PROJECT DESCRIPTION

The applicant proposes to construct a shop with associated infrastructure improvements. As part of this development activity, buffer averaging is proposed to accommodate the proposed building. This proposal is designed in an attempt to avoid impacts to the on-site wetland. No other impacts or modifications are proposed to critical areas or their associated buffers.

5.1 BUFFER WIDTH AVERAGING

The applicant is proposing to utilize buffer width averaging as identified in PTMC 19.05.110(G)(6). The intent of the proposed buffer averaging is to help achieve the City's goal of having buildings along the frontage of Rainier Street with parking behind the structures. Buffer width averaging shall be allowed only where the applicant demonstrates all of the following (compliance discussion in italics):

- a. That width averaging will not adversely impact the functions and values; and

The proposed buffer averaging areas are located on the outer portion of the standard buffer and will be the minimum necessary to accommodate the proposed activity and required building setback. This will involve averaging the 50-foot buffer to a minimum width of 25 feet. The areas of proposed averaging (reduced buffer/additional buffer) are comprised of a deciduous overstory with an understory that is primarily dominated by invasive species such as Himalayan and evergreen blackberry with sporadic native species. The additional buffer area will provide greater protection to some of the larger on-site trees as well as portions of the increased buffer with a more diverse understory. Given the minimum intrusion into the buffer, additional protection to on-site trees, more understory diversity in the additional buffer areas, and a slightly more than 1:1 buffer replacement ration, there will be no adverse impact to the functions and values of the wetland or buffers.

- b. That the total area contained within the buffer after averaging is no less than that contained within the standard buffer prior to averaging;

The buffer averaging has been designed to provide a 1:1 buffer averaging ratio (reduction:addition) on a per wetland basis. The total averaging reduction area is 1,591 square feet and averaging addition area is 1,609 square feet. An increase of 18 square feet of buffer will occur from this averaging proposal.

In no instance shall the buffer width be reduced by more than 50 percent of the standard buffer or be less than 25 feet.

The maximum proposed buffer reduction the wetland is 50% associated with the minimum proposed width is 25 feet.

5.2 WILDLIFE ASSESSMENT

The on-site wetland and surrounding areas provide features that are beneficial to wildlife, including resources such as food, water, thermal cover, and hiding areas in close proximity. The subject property is surrounded by a combination of pasture areas, commercial development, and developed rights of way. Both upland and wetland areas have multi-strata forested structures, with special habitat features such as snags/logs. Given the isolated nature of the wetland, the subject site provides a low to moderate level of function for local wildlife.

No mammalian species were detected during our on-site investigations in 2022, though several species are expected to occur within the area, including black-tail deer (*Odocoileus columbianus*), gray squirrel (*Sciurus* spp.), Douglas squirrel (*Tamiasciurus douglasii*), coyote (*Canis latrans*), and raccoon (*Procyon lotor*). Avian activity was not strongly detected, although birdsong was heard during the site investigation. Given the limited habitat available in the surrounding area, it is expected that the following avian species use the area: American Crow (*Corvus brachyrhynchos*), American Robin (*Turdus migratorius*), Steller's Jay (*Cyanocitta stelleri*), Black-capped Chickadee (*Poecile atricapilla*), Pacific Wren (*Troglodytes pacificus*), Winter Wren (*Troglodytes troglodytes*), Dark-eyed Junco (*Junco hyemalis*), Song Sparrow (*Melospiza melodia*), House Finch (*Carpodacus mexicanus*), European Starling (*Sturnus vulgaris*), and Spotted Towhee (*Pipilo maculatus*).

6.0 CONCLUSION

This proposed development activity has been specifically designed to avoid direct impacts to the on-site wetland. A minor intrusion into the buffer using buffer averaging is proposed that meet the requirements of PTMC 19.05.110(G)(6) and result in a 1:1 buffer averaging ratio. No other impacts are proposed. Overall, this development proposal along with the proposed buffer averaging, will comply with the City of Port Townsend's requirement of achieving no net loss to wetland functions and values.

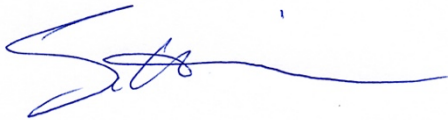
7.0 USE OF THIS REPORT

This Critical Area Report and Buffer Averaging Plan is supplied to Peter West and Sam Taylor as a means of determining on-site critical area conditions. This report is based largely on readily observable conditions and, to a lesser extent, on readily ascertainable conditions. No attempt has been made to determine hidden or concealed conditions.

The laws applicable to wetlands are subject to varying interpretations and may be changed at any time by the courts or legislative bodies. This report is intended to provide information deemed relevant in the applicant's attempt to comply with the laws now in effect.

The work for this report has conformed to the standard of care employed by wetland ecologists. No other representation or warranty is made concerning the work or this report and any implied representation or warranty is disclaimed.

Wetland Resources, Inc.



Scott Brainard
Principal Ecologist, PWS

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Wetland name or number A

RATING SUMMARY – Western Washington

Name of wetland (or ID #): West/Taylor Date of site visit: 8/17/22

Rated by SB Trained by Ecology? Yes No Date of training 10/16

HGM Class used for rating DEPRESSIONAL Wetland has multiple HGM classes? Y N

NOTE: Form is not complete without the figures requested (figures can be combined).

Source of base aerial photo/map ESRI

OVERALL WETLAND CATEGORY IV (based on functions or special characteristics)

1. Category of wetland based on FUNCTIONS

 Category I – Total score = 23 - 27

 Category II – Total score = 20 - 22

 Category III – Total score = 16 - 19

Category IV – Total score = 9 - 15

| FUNCTION | Improving Water Quality | Hydrologic | Habitat | |
|---------------------------------------|--|---|---|--------------|
| <i>Circle the appropriate ratings</i> | | | | |
| Site Potential | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | H <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| Landscape Potential | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | |
| Value | H <input type="checkbox"/> <input checked="" type="checkbox"/> L | H <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | H <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | TOTAL |
| Score Based on Ratings | 6 | 5 | 4 | 15 |

Score for each function based on three ratings (order of ratings is not important)

9 = H,H,H

8 = H,H,M

7 = H,H,L

7 = H,M,M

6 = H,M,L

6 = M,M,M

5 = H,L,L

5 = M,M,L

4 = M,L,L

3 = L,L,L

2. Category based on SPECIAL CHARACTERISTICS of wetland

| CHARACTERISTIC | CATEGORY |
|------------------------------------|-------------------------------------|
| Estuarine | I II |
| Wetland of High Conservation Value | I |
| Bog | I |
| Mature Forest | I |
| Old Growth Forest | I |
| Coastal Lagoon | I II |
| Interdunal | I II III IV |
| None of the above | <input checked="" type="checkbox"/> |

Wetland name or number A

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

| Map of: | To answer questions: | Figure # |
|---|----------------------|----------|
| Cowardin plant classes | D 1.3, H 1.1, H 1.4 | 1 |
| Hydroperiods | D 1.4, H 1.2 | 1 |
| Location of outlet (<i>can be added to map of hydroperiods</i>) | D 1.1, D 4.1 | 1 |
| Boundary of area within 150 ft of the wetland (<i>can be added to another figure</i>) | D 2.2, D 5.2 | 1 |
| Map of the contributing basin | D 4.3, D 5.3 | 2 |
| 1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat | H 2.1, H 2.2, H 2.3 | 2 |
| Screen capture of map of 303(d) listed waters in basin (from Ecology website) | D 3.1, D 3.2 | 3 |
| Screen capture of list of TMDLs for WRIA in which unit is found (from web) | D 3.3 | 4 |

Riverine Wetlands

| Map of: | To answer questions: | Figure # |
|---|----------------------|----------|
| Cowardin plant classes | H 1.1, H 1.4 | |
| Hydroperiods | H 1.2 | |
| Ponded depressions | R 1.1 | |
| Boundary of area within 150 ft of the wetland (<i>can be added to another figure</i>) | R 2.4 | |
| Plant cover of trees, shrubs, and herbaceous plants | R 1.2, R 4.2 | |
| Width of unit vs. width of stream (<i>can be added to another figure</i>) | R 4.1 | |
| Map of the contributing basin | R 2.2, R 2.3, R 5.2 | |
| 1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat | H 2.1, H 2.2, H 2.3 | |
| Screen capture of map of 303(d) listed waters in basin (from Ecology website) | R 3.1 | |
| Screen capture of list of TMDLs for WRIA in which unit is found (from web) | R 3.2, R 3.3 | |

Lake Fringe Wetlands

| Map of: | To answer questions: | Figure # |
|---|----------------------------|----------|
| Cowardin plant classes | L 1.1, L 4.1, H 1.1, H 1.4 | |
| Plant cover of trees, shrubs, and herbaceous plants | L 1.2 | |
| Boundary of area within 150 ft of the wetland (<i>can be added to another figure</i>) | L 2.2 | |
| 1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat | H 2.1, H 2.2, H 2.3 | |
| Screen capture of map of 303(d) listed waters in basin (from Ecology website) | L 3.1, L 3.2 | |
| Screen capture of list of TMDLs for WRIA in which unit is found (from web) | L 3.3 | |

Slope Wetlands

| Map of: | To answer questions: | Figure # |
|---|----------------------|----------|
| Cowardin plant classes | H 1.1, H 1.4 | |
| Hydroperiods | H 1.2 | |
| Plant cover of dense trees, shrubs, and herbaceous plants | S 1.3 | |
| Plant cover of dense, rigid trees, shrubs, and herbaceous plants (<i>can be added to figure above</i>) | S 4.1 | |
| Boundary of 150 ft buffer (<i>can be added to another figure</i>) | S 2.1, S 5.1 | |
| 1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat | H 2.1, H 2.2, H 2.3 | |
| Screen capture of map of 303(d) listed waters in basin (from Ecology website) | S 3.1, S 3.2 | |
| Screen capture of list of TMDLs for WRIA in which unit is found (from web) | S 3.3 | |

Wetland name or number A

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1. Are the water levels in the entire unit usually controlled by tides except during floods?

NO – go to 2

YES – the wetland class is **Tidal Fringe** – go to 1.1

- 1.1 Is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

NO – **Saltwater Tidal Fringe (Estuarine)**

YES – **Freshwater Tidal Fringe**

*If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.*

2. The entire wetland unit is flat and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

NO – go to 3

YES – The wetland class is **Flats**

*If your wetland can be classified as a Flats wetland, use the form for **Depressional** wetlands.*

3. Does the entire wetland unit **meet all** of the following criteria?

_The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size;

_At least 30% of the open water area is deeper than 6.6 ft (2 m).

NO – go to 4

YES – The wetland class is **Lake Fringe** (Lacustrine Fringe)

4. Does the entire wetland unit **meet all** of the following criteria?

_The wetland is on a slope (*slope can be very gradual*),

_The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks,

_The water leaves the wetland **without being impounded**.

NO – go to 5

YES – The wetland class is **Slope**

NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

5. Does the entire wetland unit **meet all** of the following criteria?

_The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river,

_The overbank flooding occurs at least once every 2 years.

Wetland name or number A **NO** – go to 6**YES** – The wetland class is **Riverine****NOTE:** The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? *This means that any outlet, if present, is higher than the interior of the wetland.*

NO – go to 7

YES – The wetland class is **Depressional**

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched, but has no obvious natural outlet.

NO – go to 8

YES – The wetland class is **Depressional**

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. **GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT** (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

| HGM classes within the wetland unit being rated | | HGM class to use in rating |
|--|--------------------------|----------------------------|
| Slope + Riverine | <input type="checkbox"/> | Riverine |
| Slope + Depressional | <input type="checkbox"/> | Depressional |
| Slope + Lake Fringe | <input type="checkbox"/> | Lake Fringe |
| Depressional + Riverine along stream within boundary of depression | <input type="checkbox"/> | Depressional |
| Depressional + Lake Fringe | <input type="checkbox"/> | Depressional |
| Riverine + Lake Fringe | <input type="checkbox"/> | Riverine |
| Salt Water Tidal Fringe and any other class of freshwater wetland | <input type="checkbox"/> | Treat as ESTUARINE |

*If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.*

Wetland name or number A

| DEPRESSIONAL AND FLATS WETLANDS | | | |
|--|--|-----------------------------------|-----------|
| Water Quality Functions - Indicators that the site functions to improve water quality | | | |
| D 1.0. Does the site have the potential to improve water quality? | | | |
| D 1.1. <u>Characteristics of surface water outflows from the wetland:</u> | | | |
| <input checked="" type="checkbox"/> Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet). points = 3 | | 3 | |
| <input type="checkbox"/> Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet. points = 2 | | | |
| <input type="checkbox"/> Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 | | | |
| <input type="checkbox"/> Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1 | | | |
| D 1.2. <u>The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions).</u> Yes = 4 <input type="checkbox"/> No = 0 | | 0 | |
| D 1.3. <u>Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):</u> | | | |
| <input type="checkbox"/> Wetland has persistent, ungrazed, plants > 95% of area points = 5 | | 3 | |
| <input checked="" type="checkbox"/> Wetland has persistent, ungrazed, plants > ½ of area points = 3 | | | |
| <input type="checkbox"/> Wetland has persistent, ungrazed plants > 1/10 of area points = 1 | | | |
| <input type="checkbox"/> Wetland has persistent, ungrazed plants < 1/10 of area points = 0 | | | |
| D 1.4. <u>Characteristics of seasonal ponding or inundation:</u> <i>This is the area that is ponded for at least 2 months. See description in manual.</i> | | | |
| <input checked="" type="checkbox"/> Area seasonally ponded is > ½ total area of wetland points = 4 | | 4 | |
| <input type="checkbox"/> Area seasonally ponded is > ¼ total area of wetland points = 2 | | | |
| <input type="checkbox"/> Area seasonally ponded is < ¼ total area of wetland points = 0 | | | |
| Total for D 1 | | Add the points in the boxes above | 10 |

Rating of Site Potential If score is: 12-16 = H 6-11 = M 0-5 = L Record the rating on the first page

| | | | |
|--|--|-----------------------------------|----------|
| D 2.0. Does the landscape have the potential to support the water quality function of the site? | | | |
| D 2.1. Does the wetland unit receive stormwater discharges? | Yes = 1 <input type="checkbox"/> No = 0 | 0 | |
| D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? | <input checked="" type="checkbox"/> Yes = 1 No = 0 | 1 | |
| D 2.3. Are there septic systems within 250 ft of the wetland? | Yes = 1 <input type="checkbox"/> No = 0 | 0 | |
| D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source _____ | Yes = 1 <input type="checkbox"/> No = 0 | 0 | |
| Total for D 2 | | Add the points in the boxes above | 1 |

Rating of Landscape Potential If score is: 3 or 4 = H 1 or 2 = M 0 = L Record the rating on the first page

| | | | |
|---|--|-----------------------------------|----------|
| D 3.0. Is the water quality improvement provided by the site valuable to society? | | | |
| D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? | Yes = 1 <input type="checkbox"/> No = 0 | 0 | |
| D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? | <input checked="" type="checkbox"/> Yes = 1 No = 0 | 1 | |
| D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality (answer YES if there is a TMDL for the basin in which the unit is found)? | Yes = 2 <input type="checkbox"/> No = 0 | 0 | |
| Total for D 3 | | Add the points in the boxes above | 1 |

Rating of Value If score is: 2-4 = H 1 = M 0 = L Record the rating on the first page

| |
|--|
| |
|--|

Wetland name or number A**DEPRESSIONAL AND FLATS WETLANDS****Hydrologic Functions** - Indicators that the site functions to reduce flooding and stream degradation

| | | |
|---|--|----------|
| D 4.0. Does the site have the potential to reduce flooding and erosion? | | |
| D 4.1. Characteristics of surface water outflows from the wetland: | | |
| <input checked="" type="checkbox"/> Wetland is a depression or flat depression with no surface water leaving it (no outlet) | points = 4 | 4 |
| <input type="checkbox"/> Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet | points = 2 | |
| <input type="checkbox"/> Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch | points = 1 | |
| <input type="checkbox"/> Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing | points = 0 | |
| D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part. | | |
| <input type="checkbox"/> Marks of ponding are 3 ft or more above the surface or bottom of outlet | points = 7 | 0 |
| <input type="checkbox"/> Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet | points = 5 | |
| <input type="checkbox"/> Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet | points = 3 | |
| <input type="checkbox"/> The wetland is a "headwater" wetland | points = 3 | |
| <input type="checkbox"/> Wetland is flat but has small depressions on the surface that trap water | points = 1 | |
| <input checked="" type="checkbox"/> Marks of ponding less than 0.5 ft (6 in) | points = 0 | |
| D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the wetland to the area of the wetland unit itself. | | |
| <input type="checkbox"/> The area of the basin is less than 10 times the area of the unit | points = 5 | 3 |
| <input checked="" type="checkbox"/> The area of the basin is 10 to 100 times the area of the unit | points = 3 | |
| <input type="checkbox"/> The area of the basin is more than 100 times the area of the unit | points = 0 | |
| <input type="checkbox"/> Entire wetland is in the Flats class | points = 5 | |
| Total for D 4 | Add the points in the boxes above | 7 |

Rating of Site Potential If score is: 12-16 = H 6-11 = M 0-5 = L

Record the rating on the first page

| | | |
|---|--|----------|
| D 5.0. Does the landscape have the potential to support hydrologic functions of the site? | | |
| D 5.1. Does the wetland receive stormwater discharges? | Yes = 1 <input type="checkbox"/> No = <input type="checkbox"/> | 0 |
| D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? | <input type="checkbox"/> Yes = 1 <input type="checkbox"/> No = 0 | 1 |
| D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)? | <input type="checkbox"/> Yes = 1 <input type="checkbox"/> No = 0 | 1 |
| Total for D 5 | Add the points in the boxes above | 2 |

Rating of Landscape Potential If score is: 3 = H 1 or 2 = M 0 = L

Record the rating on the first page

| | | |
|---|--|----------|
| D 6.0. Are the hydrologic functions provided by the site valuable to society? | | |
| D 6.1. The unit is in a landscape that has flooding problems. Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met. The wetland captures surface water that would otherwise flow down-gradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds): | | |
| <input type="checkbox"/> • Flooding occurs in a sub-basin that is immediately down-gradient of unit. | points = 2 | 0 |
| <input type="checkbox"/> • Surface flooding problems are in a sub-basin farther down-gradient. | points = 1 | |
| <input type="checkbox"/> Flooding from groundwater is an issue in the sub-basin. | points = 1 | |
| <input type="checkbox"/> The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood. Explain why _____ | points = 0 | |
| <input checked="" type="checkbox"/> There are no problems with flooding downstream of the wetland. | points = 0 | |
| D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? | | |
| | Yes = 2 <input type="checkbox"/> No = <input type="checkbox"/> | 0 |
| Total for D 6 | Add the points in the boxes above | 0 |

Rating of Value If score is: 2-4 = H 1 = M 0 = L

Record the rating on the first page

Wetland name or number A**These questions apply to wetlands of all HGM classes.****HABITAT FUNCTIONS** - Indicators that site functions to provide important habitat

H 1.0. Does the site have the potential to provide habitat?

H 1.1. Structure of plant community: *Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked.*

- | | | |
|--|--|----------|
| <input type="checkbox"/> Aquatic bed | 4 structures or more: points = 4 | 1 |
| <input type="checkbox"/> Emergent | 3 structures: points = 2 | |
| <input type="checkbox"/> Scrub-shrub (areas where shrubs have > 30% cover) | 2 structures: points = 1 | |
| <input checked="" type="checkbox"/> Forested (areas where trees have > 30% cover) | 1 structure: points = 0 | |
| <i>If the unit has a Forested class, check if:</i> | | |
| <input checked="" type="checkbox"/> The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground-cover) that each cover 20% within the Forested polygon | | |

H 1.2. Hydroperiods

Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or ¼ ac to count (*see text for descriptions of hydroperiods*).

- | | | |
|--|---|----------|
| <input type="checkbox"/> Permanently flooded or inundated | 4 or more types present: points = 3 | 1 |
| <input checked="" type="checkbox"/> Seasonally flooded or inundated | 3 types present: points = 2 | |
| <input type="checkbox"/> Occasionally flooded or inundated | 2 types present: points = 1 | |
| <input checked="" type="checkbox"/> Saturated only | 1 type present: points = 0 | |
| <input type="checkbox"/> Permanently flowing stream or river in, or adjacent to, the wetland | | |
| <input type="checkbox"/> Seasonally flowing stream in, or adjacent to, the wetland | | |
| <input type="checkbox"/> Lake Fringe wetland | 2 points | |
| <input type="checkbox"/> Freshwater tidal wetland | 2 points | |

H 1.3. Richness of plant species

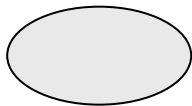
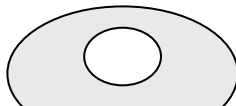
Count the number of plant species in the wetland that cover at least 10 ft².

Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle

- | | | |
|--|--|----------|
| If you counted: > 19 species | points = 2 | 1 |
| 5 - 19 species | points = 1 | |
| < 5 species | points = 0 | |

H 1.4. Interspersion of habitats

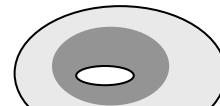
Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. *If you have four or more plant classes or three classes and open water, the rating is always high.*

None = 0 points

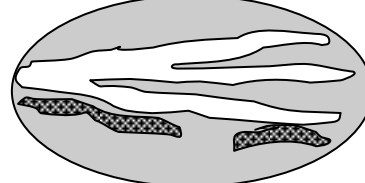
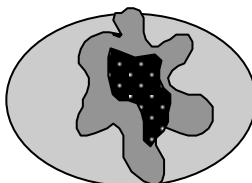
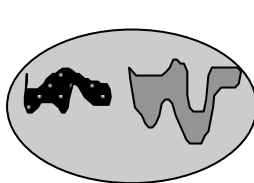
Low = 1 point



Moderate = 2 points

**0**

All three diagrams in this row are **HIGH** = 3points



Wetland name or number A

| | | |
|--|-----------------------------------|----------|
| <p>H 1.5. Special habitat features:</p> <p>Check the habitat features that are present in the wetland. <i>The number of checks is the number of points.</i></p> <p><input checked="" type="checkbox"/> Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long).</p> <p><input checked="" type="checkbox"/> Standing snags (dbh > 4 in) within the wetland</p> <p><input type="checkbox"/> Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m)</p> <p><input type="checkbox"/> Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (<i>cut shrubs or trees that have not yet weathered where wood is exposed</i>)</p> <p><input type="checkbox"/> At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (<i>structures for egg-laying by amphibians</i>)</p> <p><input type="checkbox"/> Invasive plants cover less than 25% of the wetland area in every stratum of plants (<i>see H 1.1 for list of strata</i>)</p> | | 2 |
| Total for H 1 | Add the points in the boxes above | 5 |

Rating of Site Potential If score is: 15-18 = H 7-14 = M 0-6 = L

Record the rating on the first page

| | | | |
|---|-----------------------------------|----------|----------|
| <p>H 2.0. Does the landscape have the potential to support the habitat functions of the site?</p> | | | |
| <p>H 2.1. Accessible habitat (include <i>only habitat that directly abuts wetland unit</i>).</p> <p>Calculate: % undisturbed habitat <u>0</u> + [(% moderate and low intensity land uses)/2] <u>2</u> = <u>2</u> %</p> <p>If total accessible habitat is:</p> <p><input type="checkbox"/> > 1/3 (33.3%) of 1 km Polygon points = 3</p> <p><input type="checkbox"/> 20-33% of 1 km Polygon points = 2</p> <p><input type="checkbox"/> 10-19% of 1 km Polygon points = 1</p> <p><input checked="" type="checkbox"/> < 10% of 1 km Polygon points = 0</p> | | | 0 |
| <p>H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.</p> <p>Calculate: % undisturbed habitat <u>41</u> + [(% moderate and low intensity land uses)/2] <u>7</u> = <u>48</u> %</p> <p><input type="checkbox"/> Undisturbed habitat > 50% of Polygon points = 3</p> <p><input type="checkbox"/> Undisturbed habitat 10-50% and in 1-3 patches points = 2</p> <p><input checked="" type="checkbox"/> Undisturbed habitat 10-50% and > 3 patches points = 1</p> <p><input type="checkbox"/> Undisturbed habitat < 10% of 1 km Polygon points = 0</p> | | | 1 |
| <p>H 2.3. Land use intensity in 1 km Polygon: If</p> <p><input type="checkbox"/> > 50% of 1 km Polygon is high intensity land use points = (- 2)</p> <p><input checked="" type="checkbox"/> ≤ 50% of 1 km Polygon is high intensity points = 0</p> | | | 0 |
| Total for H 2 | Add the points in the boxes above | 1 | |

Rating of Landscape Potential If score is: 4-6 = H 1-3 = M < 1 = L

Record the rating on the first page

| | | | |
|---|--|--|----------|
| <p>H 3.0. Is the habitat provided by the site valuable to society?</p> | | | |
| <p>H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? <i>Choose only the highest score that applies to the wetland being rated.</i></p> <p>Site meets ANY of the following criteria: points = 2</p> <p><input type="checkbox"/> It has 3 or more priority habitats within 100 m (see next page)</p> <p><input type="checkbox"/> It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)</p> <p><input type="checkbox"/> It is mapped as a location for an individual WDFW priority species</p> <p><input type="checkbox"/> It is a Wetland of High Conservation Value as determined by the Department of Natural Resources</p> <p><input type="checkbox"/> It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan</p> <p><input type="checkbox"/> Site has 1 or 2 priority habitats (listed on next page) within 100 m points = 1</p> <p><input checked="" type="checkbox"/> Site does not meet any of the criteria above points = 0</p> | | | 0 |

Rating of Value If score is: 2 = H 1 = M 0 = L

Record the rating on the first page

Wetland name or number A

WDFW Priority Habitats

Priority habitats listed by WDFW (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp. <http://wdfw.wa.gov/publications/00165/wdfw00165.pdf> or access the list from here: <http://wdfw.wa.gov/conservation/phs/list/>)

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: **NOTE:** *This question is independent of the land use between the wetland unit and the priority habitat.*

- Aspen Stands:** Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- Biodiversity Areas and Corridors:** Areas of habitat that are relatively important to various species of native fish and wildlife (*full descriptions in WDFW PHS report*).
- Herbaceous Balds:** Variable size patches of grass and forbs on shallow soils over bedrock.
- Old-growth/Mature forests:** Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
- Oregon White Oak:** Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (*full descriptions in WDFW PHS report p. 158 – see web link above*).
- Riparian:** The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- Westside Prairies:** Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (*full descriptions in WDFW PHS report p. 161 – see web link above*).
- Instream:** The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
- Nearshore:** Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (*full descriptions of habitats and the definition of relatively undisturbed are in WDFW report – see web link on previous page*).
- Caves:** A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs:** Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Talus:** Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- Snags and Logs:** Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

Wetland name or number A**CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

| Wetland Type | Category |
|---|-------------------------------------|
| <i>Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.</i> | |
| SC 1.0. Estuarine wetlands Does the wetland meet the following criteria for Estuarine wetlands? <input type="checkbox"/> The dominant water regime is tidal, <input type="checkbox"/> Vegetated, and <input type="checkbox"/> With a salinity greater than 0.5 ppt Yes –Go to SC 1.1 No= Not an estuarine wetland | |
| SC 1.1. Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151? Yes = Category I No - Go to SC 1.2 | Cat. I |
| SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions? <input type="checkbox"/> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has less than 10% cover of non-native plant species. (If non-native species are <i>Spartina</i> , see page 25) <input type="checkbox"/> At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or unmowed grassland. <input type="checkbox"/> The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. Yes = Category I No = Category II | Cat. I Cat. II |
| SC 2.0. Wetlands of High Conservation Value (WHCV) SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? Yes – Go to SC 2.2 No – Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland? http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf Yes – Contact WNHP/WDNR and go to SC 2.4 No = Not a WHCV SC 2.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and listed it on their website? Yes = Category I No = Not a WHCV | Cat. I |
| SC 3.0. Bogs Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? <i>Use the key below. If you answer YES you will still need to rate the wetland based on its functions.</i> SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks, that compose 16 in or more of the first 32 in of the soil profile? Yes – Go to SC 3.3 No – Go to SC 3.2 SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are less than 16 in deep over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake or pond? Yes – Go to SC 3.3 No = Is not a bog SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at least a 30% cover of plant species listed in Table 4? Yes = Is a Category I bog No – Go to SC 3.4 NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion by measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the pH is less than 5.0 and the plant species in Table 4 are present, the wetland is a bog. SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the species (or combination of species) listed in Table 4 provide more than 30% of the cover under the canopy? Yes = Is a Category I bog No = Is not a bog | Cat. I |

Wetland name or number A

| | |
|--|---|
| <p>SC 4.0. Forested Wetlands</p> <p>Does the wetland have at least <u>1 contiguous acre</u> of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as priority habitats? <i>If you answer YES you will still need to rate the wetland based on its functions.</i></p> <p><input type="checkbox"/> Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 in (81 cm) or more.</p> <p><input type="checkbox"/> Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in (53 cm).</p> <p style="text-align: right;">Yes = Category I No = Not a forested wetland for this section</p> | Cat. I |
| <p>SC 5.0. Wetlands in Coastal Lagoons</p> <p>Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?</p> <p><input type="checkbox"/> The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks</p> <p><input type="checkbox"/> The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (<i>needs to be measured near the bottom</i>)</p> <p style="text-align: right;">Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon</p> <p>SC 5.1. Does the wetland meet all of the following three conditions?</p> <p><input type="checkbox"/> The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species on p. 100).</p> <p><input type="checkbox"/> At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or unmowed grassland.</p> <p><input type="checkbox"/> The wetland is larger than 1/10 ac (4350 ft²)</p> <p style="text-align: right;">Yes = Category I No = Category II</p> | Cat. I Cat. II |
| <p>SC 6.0. Interdunal Wetlands</p> <p>Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? <i>If you answer yes you will still need to rate the wetland based on its habitat functions.</i></p> <p>In practical terms that means the following geographic areas:</p> <p><input type="checkbox"/> Long Beach Peninsula: Lands west of SR 103</p> <p><input type="checkbox"/> Grayland-Westport: Lands west of SR 105</p> <p><input type="checkbox"/> Ocean Shores-Copalis: Lands west of SR 115 and SR 109</p> <p style="text-align: right;">Yes – Go to SC 6.1 No = not an interdunal wetland for rating</p> <p>SC 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M for the three aspects of function)? Yes = Category I No – Go to SC 6.2</p> <p>SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No – Go to SC 6.3</p> <p>SC 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? Yes = Category III No = Category IV</p> | Cat I Cat. II Cat. III Cat. IV |
| <p>Category of wetland based on Special Characteristics</p> <p>If you answered No for all types, enter "Not Applicable" on Summary Form</p> | N/A |



Wetland name or number _____

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WEST_TAYLOR - RAINIER ST
WETLAND RATING FIGURE 1- WETLAND A

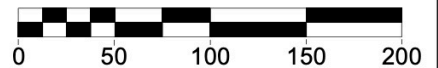


LEGEND

-  FORESTED VEGETATION
-  SATURATED ONLY
-  SEASONALLY FLOODED
-  150' FROM WL BOUNDARY



Scale 1" = 100'

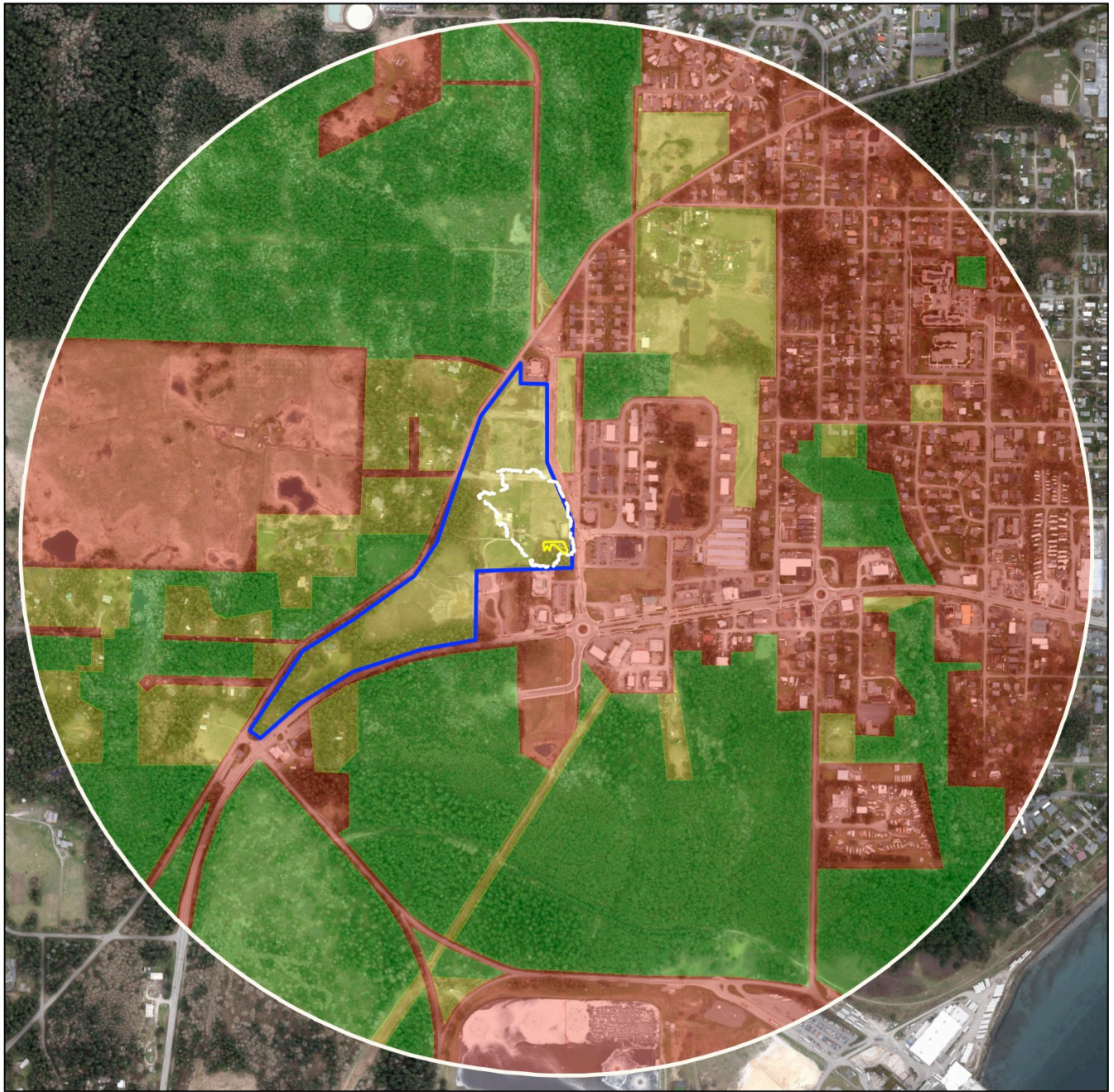


Wetland Resources, Inc.
Delineation / Mitigation / Restoration / Habitat Creation / Permit Assistance
 9505 19th Avenue S.E. Suite 106 Everett, Washington 98208
 Phone: (425) 337-3174
 Fax: (425) 337-3045
 Email: mailbox@wetlandresources.com

WETLAND RATING
Wetland A

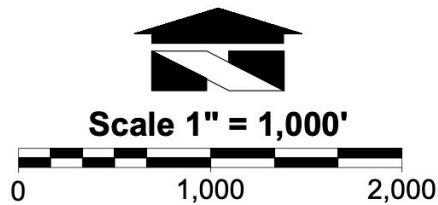
Peter West and Sam Taylor Figure A-1
 SW of Rainer St / S Park Ave Job # 22220
 Port Townsend, WA 98368 Rated by: SS

WEST_TAYLOR - RAINIER ST
WETLAND RATING FIGURE 2- WETLAND A



LEGEND

- RELATIVELY UNDISTURBED
- LOW/MOD. INTENSITY
- HIGH INTENSITY
- ACCESSIBLE HABITAT
- WETLAND
- 1 KM FROM WETLAND
- CONTRIBUTING BASIN



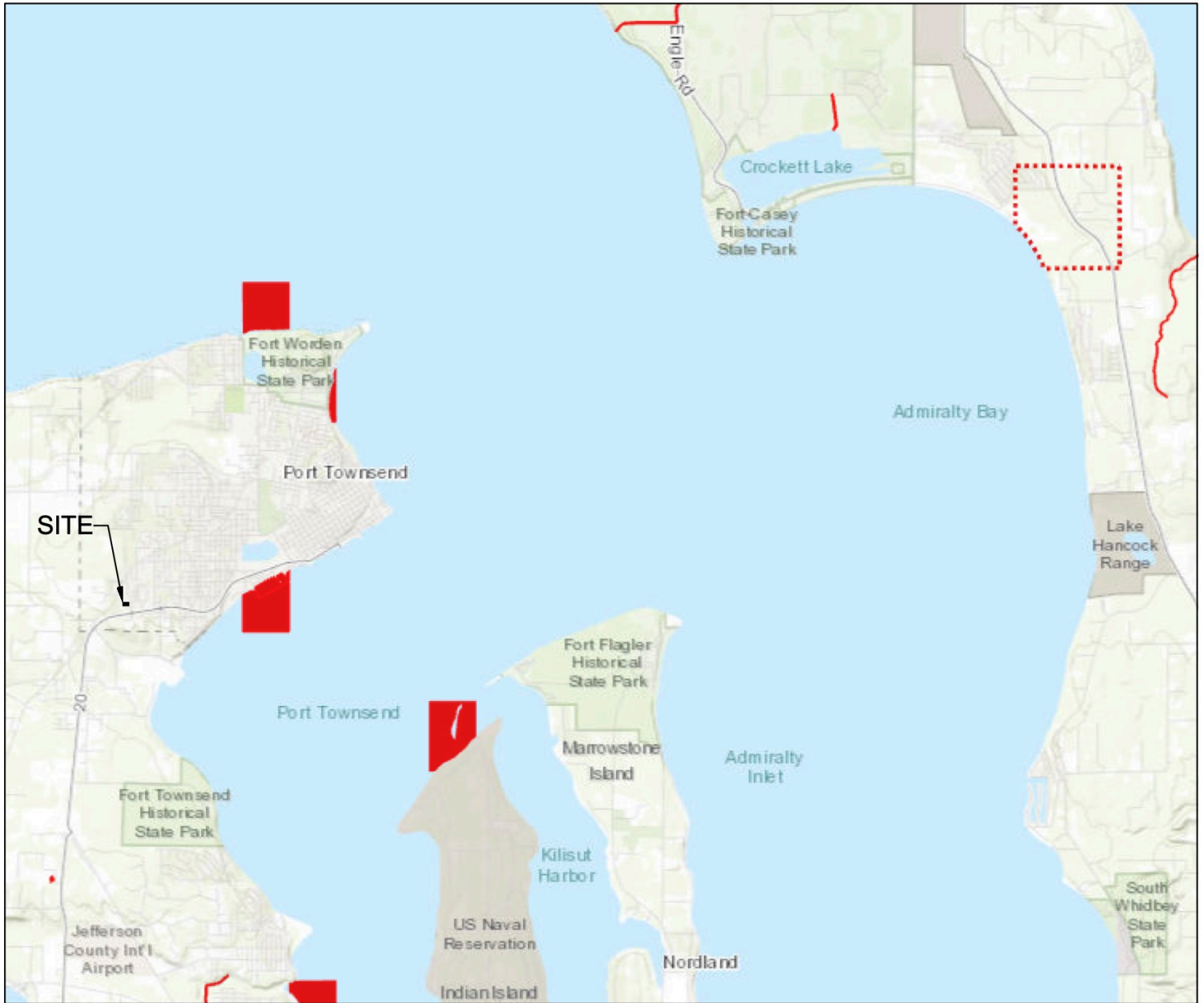
**CONTRIBUTING BASIN
AREA RELATIVE TO
WETLAND UNIT IS 23:1**

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**WETLAND RATING
Wetland A**

Peter West and Sam Taylor Figure A-2
 SW of Rainer St / S Park Ave Job # 22220
 Port Townsend, WA 98368 Rated by: SS

WEST_TAYLOR - RAINIER ST
WETLAND RATING FIGURE 3- WETLAND A









NOTE: NO TMDLS ARE LOCATED NEAR OR ADJACENT TO THE SUBJECT SITE.







LEGEND

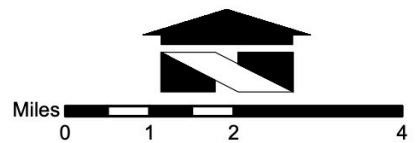
Assessed Water/Sediment

Water

-  Category 5 - 303d
-  Category 4C
-  Category 4B
-  Category 4A
-  Category 2
-  Category 1

Sediment

-  Category 5 - 303d
-  Category 4C
-  Category 4B
-  Category 4A
-  Category 2
-  Category 1



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 9505 19th Avenue S.E. Suite 106 Everett, Washington 98208
 Phone: (425) 337-3174
 Fax: (425) 337-3045
 Email: mailbox@wetlandresources.com

WETLAND RATING
Wetland A

Peter West and Sam Taylor Figure A-3
 SW of Rainer St / S Park Ave Job # 22220
 Port Townsend, WA 98368 Rated by: SS

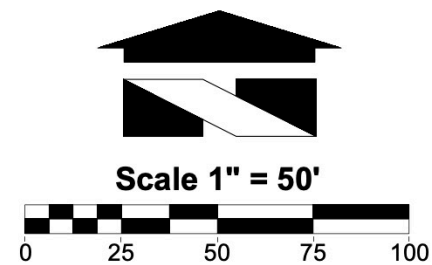
CRITICAL AREAS REPORT AND BUFFER AVERAGING MAP

WEST TAYLOR - RAINIER ST

PORTION OF SECTION 9, TOWNSHIP 30N, RANGE 1W, W.M.



| LEGEND | |
|--------|------------------------------|
| | PROPERTY BOUNDARY |
| | WETLAND |
| | STANDARD 50' BUFFER |
| | BUFFER AVERAGING (REDUCTION) |
| | BUFFER AVERAGING (ADDITION) |
| | FINAL AVERAGED BUFFER |
| | DATA SITES (S1 - S2) |



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CRITICAL AREA STUDY AND
 BUFFER AVERAGING MAP
WEST TAYLOR - RAINIER ST
 PORT TOWNSEND, WA

Sheet 1/1
 WRI #: 22220
 Drawn by: SB
 Date: 11/1/2022
 Rev 2: 11/10/2023

Peter West and Sam Taylor
 1710 Jefferson Street
 Port Townsend, WA 98368

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Taylor/West City/County: Port Townsend/Kitsap Sampling Date: 8/17/22
 Applicant/Owner: Sam Taylor/Peter West State: WA Sampling Point: S1
 Investigator(s): SB Section, Township, Range: 9, 30N, 1E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): LRR-A Lat: 48.103876 Long: -122.805833 Datum: _____
 Soil Map Unit Name: Clallam gravelly sandy loam, 0 to 15 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | |
|---|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Remarks: _____ | |

VEGETATION – Use scientific names of plants.

| | Absolute % Cover | Dominant Species? | Indicator Status | | |
|---|------------------|-------------------|------------------|---|--|
| Tree Stratum (Plot size: _____) | | | | | |
| 1. <u>Populus tremuloides</u> | 60 | Y | FACU | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B) | |
| 2. <u>Salix scouleriana</u> | 30 | Y | FACW | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| _____ | | | | | |
| _____ = Total Cover | | | | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species _____ x 3 = <u>0</u> FACU species _____ x 4 = <u>0</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = _____ | |
| Sapling/Shrub Stratum (Plot size: _____) | | | | | |
| 1. <u>Rosa nutkana</u> | 30 | Y | FAC | | |
| 2. <u>Rubus spectabilis</u> | 20 | Y | FAC | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| 5. _____ | | | | | |
| _____ = Total Cover | | | | Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | |
| Herb Stratum (Plot size: _____) | | | | | |
| 1. <u>Ranunculus repens</u> | 40 | Y | FACW | | |
| 2. _____ | | | | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| 5. _____ | | | | | |
| 6. _____ | | | | | |
| 7. _____ | | | | | |
| 8. _____ | | | | | |
| 9. _____ | | | | | |
| 10. _____ | | | | | |
| 11. _____ | | | | | |
| _____ = Total Cover | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |
| Woody Vine Stratum (Plot size: _____) | | | | | |
| 1. _____ | | | | | |
| 2. _____ | | | | | |
| _____ = Total Cover | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | |
| % Bare Ground in Herb Stratum _____ | | | | | |

Remarks: _____

SOIL

Sampling Point: S1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | Loc ² | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|------------------|---------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | | | |
| 0-10 | 2.5Y3/1 | 100 | | | | | Sil | |
| 10-18+ | 2.5Y2/1 | 95 | 10YR 4/6 | 5 | C | M | Sil | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

| | | |
|--|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | Indicators for Problematic Hydric Soils³: |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) | |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input checked="" type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | |

2 cm Muck (A10)
 Red Parent Material (TF2)
 Very Shallow Dark Surface (TF12)
 Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

| | |
|--|---|
| Primary Indicators (minimum of one required; check all that apply) | Secondary Indicators (2 or more required) |
| <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks) |
| | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7) |

Field Observations:

| | | | |
|--|---|-----------------------|---|
| Surface Water Present? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Water Table Present? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Depth (inches): _____ | |
| Saturation Present? (includes capillary fringe) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Depth (inches): _____ | |

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Primary indicator present during site visit

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Taylor/West City/County: Port Townsend/Kitsap Sampling Date: 8/17/22
 Applicant/Owner: Sam Taylor/Peter West State: WA Sampling Point: S2
 Investigator(s): SB Section, Township, Range: 9, 30N, 1E
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): LRR-A Lat: 48.103876 Long: -122.805833 Datum: _____
 Soil Map Unit Name: Clallam gravelly sandy loam, 0 to 15 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | |
|---|---|
| Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Remarks: _____ | |

VEGETATION – Use scientific names of plants.

| | Absolute % Cover | Dominant Species? | Indicator Status | | |
|---|------------------|-------------------|------------------|---|--|
| Tree Stratum (Plot size: _____) | | | | | |
| 1. <u>Salix scouleriana</u> | 60 | Y | FACW | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B) | |
| 2. <u>Psuedotsuga menziesii</u> | 30 | Y | FAC | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| | 90 | = Total Cover | | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | | | |
| 1. <u>Rubus armeniacus</u> | 30 | Y | FAC | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = <u>0</u> FACW species <u>27</u> x 2 = <u>54</u> FAC species <u>23</u> x 3 = <u>69</u> FACU species <u>45</u> x 4 = <u>180</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>95</u> (A) <u>303</u> (B) Prevalence Index = B/A = <u>3.18</u> | |
| 2. <u>Rubus parviflorus</u> | 20 | Y | FACU | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| 5. _____ | | | | | |
| | 50 | = Total Cover | | | |
| Herb Stratum (Plot size: _____) | | | | | |
| 1. <u>Pteridium aquilinum</u> | 20 | Y | FACU | | |
| 2. _____ | | | | | |
| 3. _____ | | | | | |
| 4. _____ | | | | | |
| 5. _____ | | | | | |
| 6. _____ | | | | | |
| 7. _____ | | | | | |
| 8. _____ | | | | | |
| 9. _____ | | | | | |
| 10. _____ | | | | | |
| 11. _____ | | | | | |
| | 20 | = Total Cover | | | |
| Woody Vine Stratum (Plot size: _____) | | | | | |
| 1. <u>Hedera helix</u> | 60 | Y | FACU | | |
| 2. _____ | | | | | |
| | 60 | = Total Cover | | | |
| % Bare Ground in Herb Stratum _____ | | | | | |

Remarks: _____

SOIL

Sampling Point: S2

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|---|-------------------|------------------|---------|---------|
| Depth (inches) | Matrix | | Redox Features | | | Loc ² | Texture | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | | | |
| 0-4 | 2.5Y3/1 | 100 | | | | | Sil | |
| 4-18+ | 10YR 3/4 | 100 | | 5 | C | M | Sil | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | Indicators for Problematic Hydric Soils ³ : |
|--|--|
| <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input checked="" type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) |

| | |
|--|---|
| Restrictive Layer (if present): Type: _____ Depth (inches): _____ | Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Remarks: _____ | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

HYDROLOGY

| Wetland Hydrology Indicators: | | |
|--|---|--|
| Primary Indicators (minimum of one required; check all that apply) | Secondary Indicators (2 or more required) | |
| <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ | | |
| Remarks: Primary indicator present during site visit | | |