Critical Area Study

of the

Alex & Alexa Hancock 14325 200th Ave. S.E. Renton, Washington 98059

Tax Parcel Number: 172306-9043 Section 17, Township 23 N, Range 6 E

Prepared for:
Alex Hancock
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Dated: August 29, 2025

Prepared by:
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jeff.jsjones@comcast.net

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Vicinity Map
Critical Area Sketch
Hancock Dock Mitigation Plan
USDA NRCS National Cooperative/Web Soil Survey
DNR FPARS Map
USFWS National Wetland Inventory Map
WDFW Priority Habitats and Species Map
Wetlands of High Conservation Value Map
Routine Data Sheets
Lake McDonald Rating Form
Rating Figures

1.0 Project Description

The applicant's propose to construct a fixed 396 square-foot dock in Lake McDonald.

2.0 Parcel Identification No. & Abbreviated Legal Descriptions

The tax parcel number is 172306-9043. The subject study area is located in Southwest quarter of Section 17, Township 23 North, Range 6 East, of the Willamette Meridian.

The subject property's legal description is as follows:

BAAP ON S LN OF SW 1/4 OF SW 1/4 150 FT W OF SE COR TH N 101 FT TH W 175 FT TH SWLY TAP ON SH LN 70 FT NWLY OF NXN WITH SD S LN MEAS ALG SD SH LN TH SELY TO SD S LN TH E TO BEG LESS C/M RGTS

3.0 Directions

Directions from the intersection of I-90 and Hwy. 18 are as follows:

- 1. Head westbound on I-90;
- 2. Take the Issaquah Front St. exit;
- 3. Turn left and proceed southbound on Front St. which becomes Issaquah-Hobart;
- 4. Turn right onto S.E. May Valley Rd.;
- 5. Turn left onto S.E. 128th Way;
- 6. Turn left onto 196th Ave. S.E.;
- 7. Turn left onto S.E. 142nd St.;
- 8. Turn right onto 200th Ave. S.E.;
- 9. Proceed to end of gravel road and park at house on the right.

4.0 Methodology

4.1 Federal and State Wetland Methodologies

The wetland assessment and delineation were performed using the 1997 Washington State Wetlands Identification and Delineation Manual (DOE, 1997) and the U.S. Army Corps of Engineers "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coastal Region, Version 2.0" (COE. 2010). The Routine Determination method was used. The Routine Determination methodology is "used when the project area is small, plant communities are homogeneous, plant community boundaries are abrupt, and the project is not controversial". There was "problematic" consideration for alterations to the plant community. The disturbed site methodology was not used because aerial photos adequately show the area of impacts, and the project is not controversial.

4.2 Field Work Date and Wetland Scientist

The original wetland delineation was performed on January 7, 2022. The wetland boundary was not re-delineated for the current proposed project.

5.0 Results and Discussion

There is one onsite wetland, identified as the Lake McDonald (LMD) wetland for purposes of this report. The USDA Soil Conservation Service (SCS) mapped the on-site soils as Alderwood gravelly sandy loam (AgC) and Tukwila muck (TU) (see attached Soils Map). Sample location 1 (SL-1) represents upland area above the wetland. Upland soils are Alderwood gravelly sandy loam on the gradual slope between the residence and wetland boundary, see the attached critical area sketch and data sheets. SL-1 does not have a saturated soils profile within 12 inches in the soil surface. The soils matrix is a four chroma at 10 inches, which does not meet the soils criteria. The soils profile is somewhat compacted.

The wetland is adjacent to the Lake McDonald shoreline, see the attached Critical Area Sketch. It includes the aquatic zone with plants growing in the water, emergent plants, and forested wetland. The forested wetland extends along the south property line east up the slope and has a seasonal stream. Soils at SL-2 are Tukwila muck under 2 inches of beach sand. The plant community is absent, however just offsite to the north and south of SL-2, there are wetland plant communities. The soil was inundated on January 7th, due to flooding from recent snow melt and heavy precipitation. Normally the hydrology at this sample location is seasonally saturated.

Wetland LMD is a Category I with a total score of 24 points and a habitat score of 7 points, see the attached wetland rating form and rating figures. The wetland buffer requirement is 110 feet for a Category I wetland with a habitat score of 7 points.

Lake McDonald is also regulated as an aquatic area. It is 16.5-18 acres which is too small to be classified as a lake. Fish are present in Lake McDonald, see the attached DNR FPARS map. Therefore, Lake McDonald is a Type F aquatic area. The aquatic buffer requirement is 165 feet.

The offsite stream to the south of the subject property is seasonal and non-fish bearing. It is a Type N stream. The stream buffer requirement is 65 feet. Critical area buffers already encumber the entire property.

6.0 Impact Assessment

The proposed dock is 396 square feet and meets the allowed dimensional requirements. The proposed mitigation is a ten-foot strip along the ordinary high water mark, with emergent and other vegetation. Plant selected are all natives and include five native trees. Monitoring is for a five year period. The dock mitigation plan is attached.

Mitigation will comply with KCC 21A.25.180.L.

- "New, expanded, replacement, or repaired piers, docks, floats, boatlifts, boat canopies and moorage piles or buoys shall comply with the following:
- 1. Existing habitat features, such as large and small woody debris and substrate material, shall be retained and new or expanded moorage facilities placed to avoid disturbance of such features;
- 2. Invasive weeds, such as milfoil, may be removed as provided in K.C.C. chapter 21A.24; and
- 3. In order to mitigate the impacts of new or expanded moorage facilities, the applicant shall plant site-appropriate emergent vegetation and a buffer of vegetation a minimum of ten feet wide along the entire length of the lot immediately landward of ordinary high water mark. Planting shall consist of native shrubs and trees and, when possible, emergent vegetation. At least five native trees will be included in a planting plan containing one or more evergreen trees and two or more trees that like wet roots, such as willow species. Such planting shall be monitored for a period of five years consistent with a monitoring plan approved in accordance with K.C.C. chapter 21A.24. This subsection is not intended to prevent reasonable access through the shoreline critical area buffer to the shoreline, or to prevent beach use of the shoreline critical area;"

7.0 Summary

The applicants propose the construction of a fixed 400-square-foot dock on Lake McDonald, located at 14325 200th Avenue S.E., Renton, Washington (Tax Parcel No. 172306-9043). A wetland delineation was completed on January 7, 2022, using the Washington State Wetlands Identification and Delineation Manual (DOE, 1997) and the U.S. Army Corps of Engineers Regional Supplement (2010).

Field investigations identified one onsite wetland, designated as the Lake McDonald (LMD) Wetland, which is contiguous with the lake shoreline. The wetland includes aquatic, emergent, and forested communities and contains seasonally saturated soils. Based on the Washington State Wetland Rating System, the LMD Wetland is classified as a Category I wetland with a total rating of 24 points, including a habitat score of 7 points. This rating establishes a 110-foot standard buffer.

Lake McDonald itself is regulated as a Type F aquatic area because it supports fish populations, requiring a 165-foot buffer. Additionally, an offsite, non-fish-bearing seasonal stream south of the property was identified as a Type N stream, which requires a 65-foot buffer. Collectively, these overlapping critical area buffers encompass the property.

The proposed dock meets dimensional requirements and will be mitigated in accordance with King County Code (KCC) 21A.25.180.L. The mitigation plan includes planting a ten-foot vegetated buffer along the ordinary high water mark, consisting of native emergent vegetation, shrubs, and at least five native trees (including evergreens and water-tolerant species such as willow). The mitigation area will be monitored for five years to ensure establishment and compliance with County standards.

Critical area determinations remain subject to review and approval by King County and applicable regulatory agencies.

8.0 Limitations

Critical area determinations and delineations are not final until approved by regulatory agencies and/or local jurisdictions. *J. S. Jones and Associates, Inc.* does not guarantee acceptance or approval by regulatory agencies, or that any intended use will be achieved.

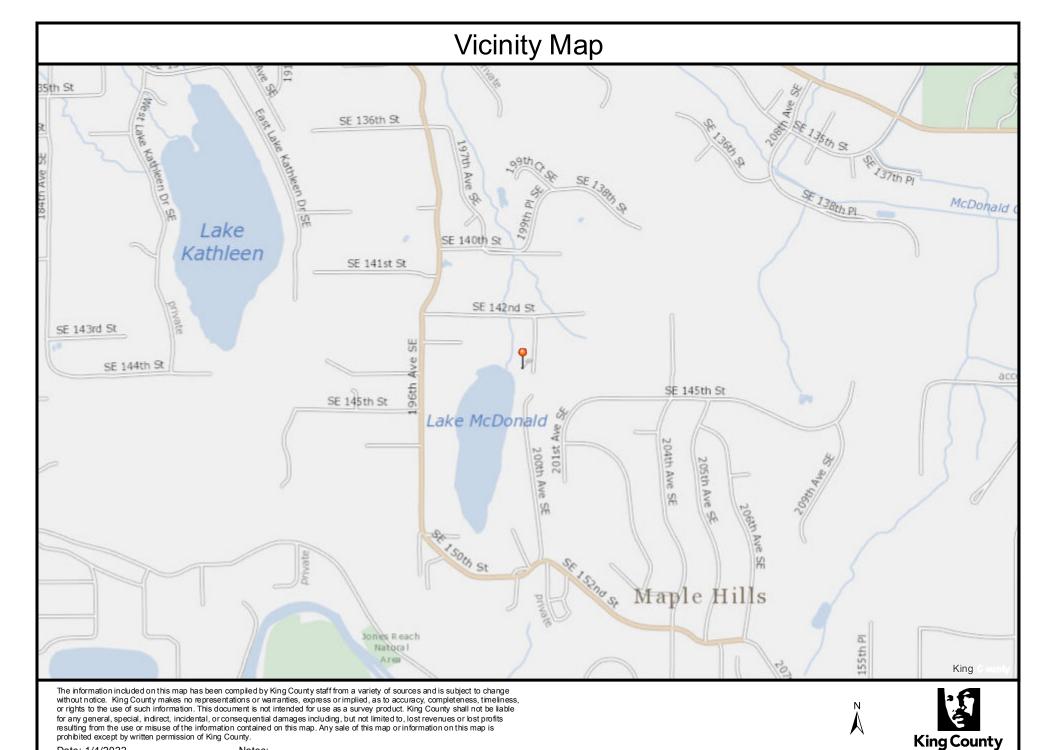
9.0 Literature Citations

COE. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

DOE. 1997. Washington State Wetlands Identification and Delineation Manual. Publ. # 96-94. Washington D.C.

Hruby T. 2014. Washington State Wetland Rating System for Western Washington: 2014 Update (Publication #14-06-029). Olympia, Washington: Washington Department of Ecology.

Attachments



Date: 1/4/2022

Notes:

Critical Area Sketch



The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

Date: 8/28/2025 Notes:







King County

Department of Permitting and Environmental Review

Residential Site Plan Template
Ref: KCC 21a.12.030
Max. Impervious Surface Allowed
Max. Bldg. Height Allowed
Ref: KCC 21a.12.170
Min. Blg. Setback From Street
Min. Garage Setback From Street
Min. Blg. Setback From Interior
Permit Center validation:
ZoningSite Review Not Applicable
Validated Signature
Login Initials Date:
Logii initidis butc.
Engineering / Drainage Approval
Signature:
Date:
Critical Areas Approval
Signature:
Date:
Clearing / Grading Approval
Signature:
Date:
Fire Approval
Signature:
Date:

Hancock Dock Mitigation Plan



Mitigation Area Proposed Dock 396 sf

 $\frac{SECTION}{SECTION} \frac{17}{20}$

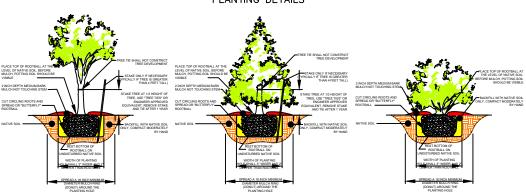
SURVEYOR LEGEND:

(C) INDICATES CALCULATED VALUE (D) INDICATES VALUE OF RECORD PER DEED TBM TEMPORARY SITE BENCHMARI

Plant Schedule

SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	North Mitigation Area (440 sf)	South Mitigation Area (198 sf)	
SS	SITKA SPRUCE	Picea sitchensis	1 GAL	1	0	
WRC	WESTERN RED CEDAR	Thuja plicata	1 GAL	1	1	
RA	RED ALDER	Alnus rubra	1 GAL	1	1	
OA	OREGON ASH	Fraxinus latifolia	1 GAL	1	0	
PW	PACIFIC WILLOW	Salix lucida		1	0	
	Total Trees			5	2	
Sb	SALMONBERRY	Rubus spectabilis	1 GAL	5	2	
Rd	RED-OSIER DOGWOOD	Cornus sericea	1 GAL	4	2	
Lf	LADY FERN	Athyrium filix-femina	1 GAL	3	2	
•	SLOUGH SEDGE	Carex obnupta	1 GAL	132	51	
	Total Shrubs & Groundco	vers		144	57	

PLANTING DETAILS



Environmental Consultant J. S. Jones and Associates, Inc.
Attn: Jeffery S. Jones, Wetland Scientist PO Box 1908 Issaquah, Washington 98027 253-905-5736

7/24/2025

that portion of the $\underline{SW}_{1}/4$, $\underline{SW}_{1}/4$, section $\underline{17}$ township $\underline{23}$ north, range $\underline{6}$ east, w.m.

Engineering Site Address: 14325 200th Ave. S.E. _ Applicant Name: Alex & Alexa Hancock Sheet ____1 ___ of _____2 Scale: 1" = _



Residential Site Plan Template

Ref: KCC 21a.12.030
Max. Impervious Surface Allowed
Max. Bldg. Height Allowed
Ref: KCC 21a.12.170
Min. Blg. Setback From Street
Min. Garage Setback From Street
Min. Blg. Setback From Interior
Permit Center validation:
o Zoning o Site Review Not Applicable
Validated Signature
Login Initials Date:
Engineering / Drainage Approval
Signature:
Date:
Critical Areas Approval
Cimpotuno
Signature:
Date:
Clearing / Grading Approval
Signature:
Date:
Fire Approval
Signature:
Signature:

A. General Information/Background

The applicant proposes to construct a 396 square foot dock. The property is King County Tax Parcel No. 172306-9043. The site address is 14325 200th Ave. S.E., Renton, WA 98059.

B. Summary of Existing Conditions

Lawn extends to the shoreline, except there are a number of existing conifers shown on sheet 1 of 2. There are also existing native groundcovers and shrubs at the north end of the mitigation area

C. Impact Analysis

Two small docks will be removed and replaced with a new dock as shown on sheet 1 of 2. The new dock is 396 square feet.

D. Proposed Mitigation

The proposed mitigation is to plant native plant species a minimum of a 10-foot width along the ordinary high water mark. The mitigation area north of the dock is 440 square feet and the mitigation area south of the dock is 198 square feet. Five tree species will be used, including two evergreen trees and three trees that like wet roots. Woody debris and the existing substrate material will be left in place. Invasive plants will be removed, although none are known to be present. These measures comply with King County Code 21A.25.180.L.

E. Goal of Mitigation

The goal of mitigation is as follows:

Improve the condition of the shoreline by reestablish native plants.

F. Implementation

- 1) Planting shall be done in accordance with illustrated details in the mitigation/restoration plan set and accepted industry standards.
- 2) Unless otherwise approved by King County staff, all planting occur at any time of the year.
- 3) Locations shall be as depicted in the approved plan set.
- 4) Plant will be obtained from a licensed native plant nursery.

G. Maintenance

Invasive plant species will be removed by hand from the mitigation area, several times a year for the monitoring period.

The Permittee shall replace any plants that are failing, weak, defective in a manner of growth, or dead. Replacement plants shall meet the same standards for size and type as those specified for original installation unless. Replacement plants may be inspected as described above for the original installation.

Plants that have settled in their planting pits too deep, too

Hancock Dock Mitigation Plan

shallow, loose, or crooked shall be replanted as directed by the Wetland Scientist, and/or King County staff.

Chemical controls shall not be used in the mitigation/restoration area, sensitive areas or their buffers.

H. Performance Standards

Plant survival and cover standards are established to measure mitigation success as follows:

Performance Standards

	Year 1	Year 3	Year 5
Shrub and Sapling Tree Cover*	>10%	>15%	>20%
Shrub and Sapling Tree Survival	100%	>85%	>80%
Groundcover Cover*	>10%	>20%	>30%
Groundcover Survival	100%	>80%	>80%
*Includes beneficial native plants	in that ca	ategory tha	t are

^{*}Includes beneficial native plants in that category that are naturally recruiting volunteers.

I. Monitoring

Monitoring shall be conducted annually for <u>5</u> years in accordance with the approved mitigation/restoration monitoring plan.

All plant installed shall be counted each monitoring event. Monitoring of vegetation plots shall occur annually between August 31 and September 30 (prior to leaf drop), unless otherwise specified.

Two (2) permanent photo points will be established within the mitigation/restoration area. Photographs will be taken from these points to visually record the condition of the mitigation/restoration area.

Monitoring reports shall be submitted by December 31 of each year during the monitoring period.

J. Bond/Financial Guarantee

Prior to beginning any work, the Permittee must provide a mitigation/restoration bond or assignment of funds per King County procedures. Upon approval of the mitigation plan, a bond quantity worksheet will completed based on all elements of the mitigation/restoration plan.

K. Notice on Title

A critical area Notice on Title, recorded at King County Records, may be required by King County DPER.

L. As-built Reports

An as-built report will be provided to King County DPER within 30 days of the completion of installation of this plan.

7/24/2025



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

tos Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

... Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

LEGEND

Spoil Area

Stony Spot

Wery Stony Spot

Wet Spot
 Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: King County Area, Washington Survey Area Data: Version 17, Aug 23, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

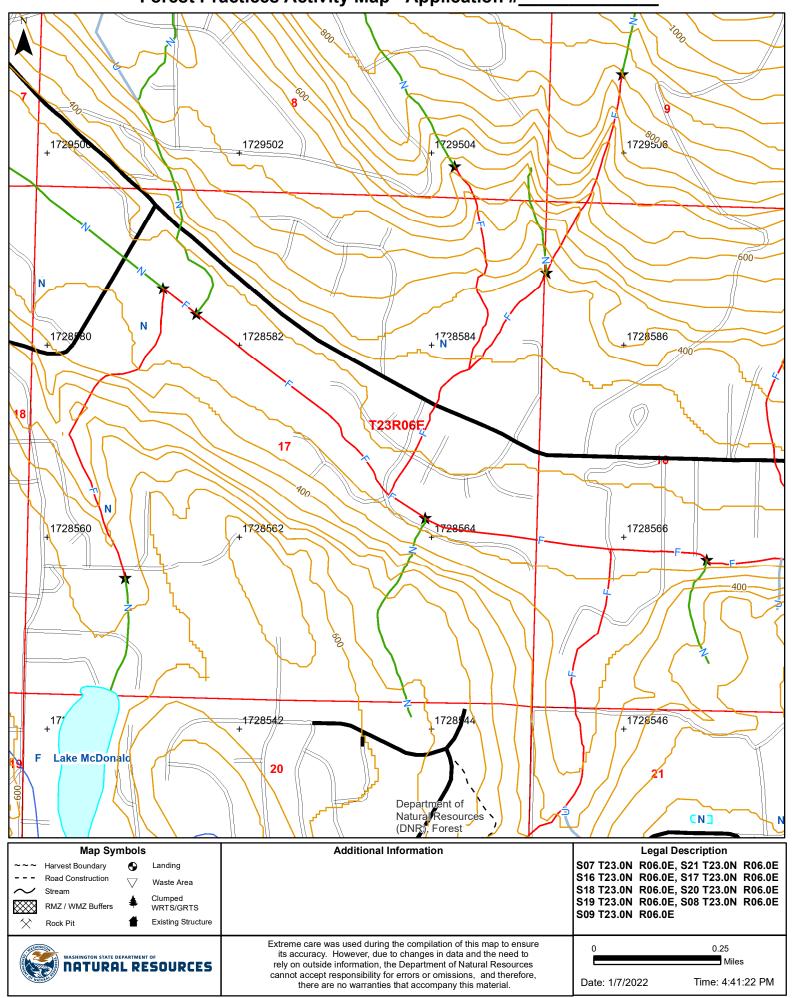
Date(s) aerial images were photographed: Jul 1, 2019—Jul 25, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AgC	Alderwood gravelly sandy loam, 8 to 15 percent slopes	0.5	98.5%
Tu	Tukwila muck	0.0	1.5%
Totals for Area of Interest		0.5	100.0%

Forest Practices Activity Map - Application #_



U.S. Fish and Wildlife Service National Wetlands Inventory

National Wetland Inventory



January 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

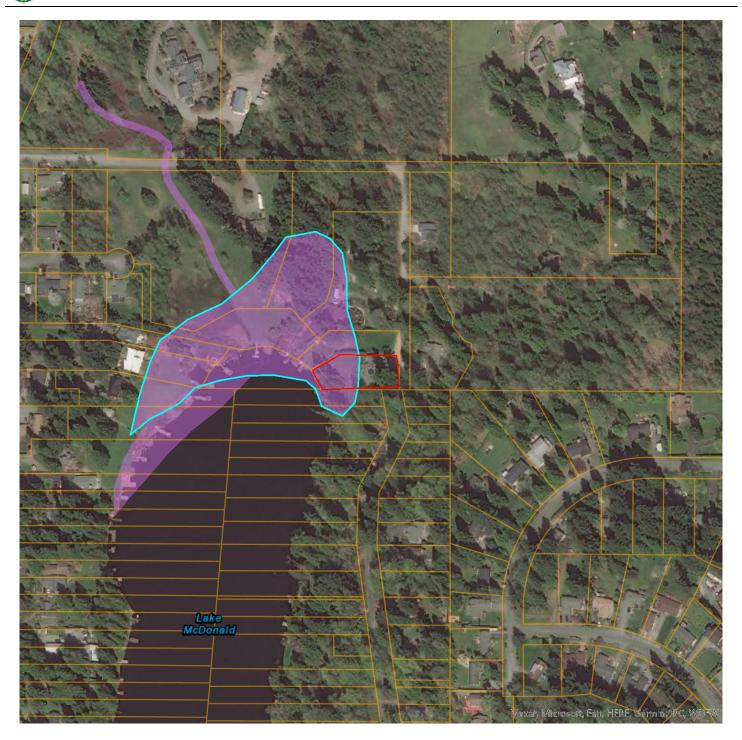
Othe

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

1/3/22, 1:10 PM PHS Report



Priority Habitats and Species on the Web



Report Date: 01/03/2022

PHS Species/Habitats Overview:

Occurence Name	Occurence Name Federal Status		Sensitive Location	
Wetlands	N/A	N/A	No	

PHS Report 1/3/22, 1:10 PM

PHS Species/Habitats Details:

Wetlands	
Priority Area	Aquatic Habitat
Site Name	MAY CREEK WETLANDS.
Accuracy	1/4 mile (Quarter Section)
Notes	SCRUB-SHRUB, FORESTED, AND EMERGENT MARSH WETLANDS ALONG MAY CREEK AND IT'S TRIBUTARIES, INCLUDING LAKE BOREN.
Source Record	902508
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	N
SGCN	N
Display Resolution	AS MAPPED
Management Recommendations	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.

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: 14325 200th Ave. S.E.		City/Cou	nty: King C	ounty	Sampling Date:	2022-01-07
Applicant/Owner: Alex & Alexa Hancock				State: Washington	Sampling Point:	SL-1
Investigator(s): Jeffery Jones		Section, 1	Γownship, Ra	ange: 17, 23N, 6E		
Landform (hillside, terrace, etc.): Hillslope					Slop	e (%): 3
Subregion (LRR/MLRA): A 1 Lat	t: <u>47.4736</u>		Long: -	122.0755	Datum:	WGS 84
Soil Map Unit Name: Alderwood gravelly sandy I	loam			NWI classifi	cation: None	
Are climatic / hydrologic conditions on the site typica	al for this time o	f year?	Yes 🗸	No (If no, exp	lain in Remarks.)	
Are Vegetation, Soil, or Hydrology)
Are Vegetation , Soil , or Hydrology	 naturally pro	blematic? (If needed, ex	κplain any answers in Rer	marks.)	
SUMMARY OF FINDINGS – Attach site	— map showir	ng samplin	g point lo	cations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes ✔	No	Is the	e Sampled A	Area		
			n a Wetland		No 🗸	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No 🗸					
Remarks:		•				
VEGETATION – Use scientific names o	f plants.					
The Chartenes (Diet sine, 30 ft r	Absolute	Dominant	Indicator	Daminanaa Taat was	leab a a te	
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Dominance Test work		
2.				Number of Dominant S Are OBL, FACW, or FA	•	(A)
3.				Total Number of Domi		`
4.				Across All Strata:	<u>1</u>	(B)
		=Total Cover		Percent of Dominant S	pecies That	
Sapling/Shrub Stratum (Plot size: 5 ft r)			Are OBL, FACW, or FA	AC: 100.0	0 (A/B)
1	_					
2.	_			Prevalence Index wo Total % Cover of:		by:
3				OBL species 0		
5.				FACW species 100	x 2 = 200	
	_	=Total Cover		FAC species 0	x 3 = 0	
Herb Stratum (Plot size: 5 ft r)				FACU species 0	x 4 = 0	
Phalaris arundinacea	100		FACW	UPL species 0	x 5 = 0	
2				Column Totals: 100	(A) 200	(B)
3	_			Prevalence Index =	= B/A = 2.00	
5.	_			Hydrophytic Vegetati	on Indicators:	
	_			✓ 1 - Rapid Test for		ation
7.				✓ 2 - Dominance Tes		
8.				3 - Prevalence Ind		
9.					Adaptations ¹ (Provid	
10					s or on a separate s	sheet)
11				5 - Wetland Non-V		
20.64	100	=Total Cover		<u> </u>	phytic Vegetation ¹	
Woody Vine Stratum (Plot size: 30 ft r)			¹ Indicators of hydric so		
1				be present, unless dist	urbed or problemat	IC.
<u></u>		=Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum 0		. 5 55.61		Vegetation Present? Yes	✓ No	
Remarks:				<u>-</u>		
Tomano.						

SOIL Sampling Point: SL-1

			ie iliuica	tor or c	onfirm the abse	since of indicators.)
Depth Matrix						
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 7 10YR 3/2 100					Sandy Loan	n gravelly
7 - 18 10YR 4/4 100					Sandy Loan	n gravelly
					-	
<u> </u>						
¹ Type: C=Concentration, D=Depletion, RM=Re	educed Matrix, C	S=Cove	ered or Co	ated S	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRI	Rs, unless othe	rwise n	oted.)		Indi	icators for Problematic Hydric Soils ³ :
Histosol (A1)	——Sandy Gle	yed Mat	rix (S4)			2 cm Muck (A10) (LRR A, E)
Histic Epipedon (A2)	Sandy Red	dox (S5)				Iron-Manganese Masses (F12) (LRR D)
Black Histic (A3)	Stripped M	latrix (S	3)			Red Parent Material (F21)
Hydrogen Sulfide (A4)	Loamy Mu	cky Min	eral (F1)	except	MLRA 1)	Very Shallow Dark Surface (F22)
1 cm Muck (A9) (LRR D, G)	Loamy Gle	yed Ma	trix (F2)			Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted N	∕latrix (F	3)			
Thick Dark Surface (A12)	Redox Dar	k Surfac	ce (F6)			
Iron Monosulfide (A18)	Depleted D	ark Sur	face (F7)		³ Inc	dicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Dep	oression	s (F8)			wetland hydrology must be present,
2.5 cm Mucky Peat or Peat (S2) (LRR G)						unless disturbed or problematic.
Restrictive Layer (if observed):						
Туре:	_					
Depth (inches):	_				Hydric Soil Pr	resent? Yes No 🗸
Remarks:						
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators:						
	; check all that a	apply)			<u>Sec</u>	condary Indicators (2 or more required)
Wetland Hydrology Indicators:	; check all that a		ives (B9)	(excep		condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-Stai	ned Lea 1, 2, 4A	ıves (B9) , and 4B)	(excep		Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stai MLRA	ned Lea 1, 2, 4A (B11)	, and 4B)	(excep		Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stai MLRA Salt Crust Aquatic Inv	ned Lea 1, 2, 4A (B11) /ertebra	, and 4B) tes (B13)			Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stai MLRA Salt Crust Aquatic Inv	ned Lea 1, 2, 4A (B11) /ertebra Sulfide (, and 4B) tes (B13) Odor (C1)		· _	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen S Oxidized R	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph	tes (B13) Odor (C1)	Living R	· _	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen 3 Oxidized R Presence of	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph	tes (B13) Odor (C1) Heres on L Ced Iron (Living R	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc n Reduc	tes (B13) Odor (C1) eres on L ced Iron (Living R C4) led Soil	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduct n Reduct Stresse	tes (B13) Odor (C1) eres on Loced Iron (ction in Tiled Plants	Living R C4) led Soil	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen i Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduct n Reduct Stresse	tes (B13) Odor (C1) eres on Loced Iron (ction in Tiled Plants	Living R C4) led Soil	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen i Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduct n Reduct Stresse	tes (B13) Odor (C1) peres on L ced Iron (ction in Til	Living R C4) led Soil	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduc n Reduc Stresse blain in F	tes (B13) Odor (C1) teres on Leced Iron (ction in Till ted Plants Remarks) tinches):	.iving R C4) led Soil (D1) (Li	oots (C3) s (C6) RR A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduc n Reduc Stresse blain in F	tes (B13) Odor (C1) teres on Leced Iron (ction in Til d Plants Remarks)	.iving R C4) led Soil (D1) (Li	oots (C3) s (C6) RR A)	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required and surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduce n Reduce Stresse plain in F Depth (Depth (tes (B13) Odor (C1) peres on Led Iron (ction in Tilled Plants Remarks) Inches): inches): inches):	Living R C4) led Soil (D1) (Li	oots (C3) s (C6) RR A) Wetland Hy	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monit	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosphof Reduce n Reduce Stresse plain in F Depth (Depth (tes (B13) Odor (C1) peres on Led Iron (ction in Tilled Plants Remarks) Inches): inches): inches):	Living R C4) led Soil (D1) (Li	oots (C3) s (C6) RR A) Wetland Hy	Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

VEGETATION Continued – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Definitions of Vegetation Strata:
5. 6.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
7. 8.				Sapling/Shrub – Woody plants less than 3 in. DBH,
9.				regardless of height.
10				Herb – All herbaceous (non-woody) plants, including
11				herbaceous vines, regardless of size.
12.		Total Cover		Woody Vine – All woody vines, regardless of height.
Sapling/Shrub Stratum				
6.				
7. 8.				
9.				
10.				
11 12				
13.				
		=Total Cover		
Herb Stratum				
12. 13.				
14.				
15				
16.				
17 18				
19.				
20.				
21. 22.				
23.				
	100	Total Cover		
Woody Vine Stratum				
3. 4.				
5.				
6.				
7		=Total Cover		
Demonto		- Total Cover		
Remarks:				

Sampling Point: SL-1

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: 14325 200th Ave. S.E.	City	y/County: King Cou	ınty	Sampling Date:	2025-01-07
Applicant/Owner: Alex & Alexa Hancock			State: Washington	Sampling Point:	SL-2
Investigator(s): Jeffery Jones	Sec	tion, Township, Rang	ge: 17, 23N, 6E		
Landform (hillside, terrace, etc.): Terrace	Local re	lief (concave, conve	x, none): None	Slop	oe (%): 0
Subregion (LRR/MLRA): A 1 Lat: 47	7.4736	Long: -12	2.0755	Datum:	WGS 84
Soil Map Unit Name: Tukwila muck				ication: PEM	
Are climatic / hydrologic conditions on the site typical fo	or this time of year?	Yes 🗸	No (If no, exp	lain in Remarks.)	
Are Vegetation , Soil , or Hydrology					5
Are Vegetation , Soil , or Hydrology			ain any answers in Ren		
SUMMARY OF FINDINGS – Attach site ma			-	•	ures, etc.
Hydrophytic Vegetation Present? Yes ✔ No.)	Is the Sampled Are	ea		
		within a Wetland?	Yes_	No	
Wetland Hydrology Present? Yes ✓ No					
Remarks: Bare soil at time of data collection, assumed positive VEGETATION – Use scientific names of p		vegetation to north	n Currently seeded gra	asses, assume po	sitive
	Absolute Domir				
Tree Stratum (Plot size: 30 ft r)	% Cover Speci	es? Status	Dominance Test worl		
1. 2.			Number of Dominant S Are OBL, FACW, or FA	•	(A)
3.			Total Number of Domin		(八)
4.			Across All Strata:	nant opecies	(B)
	=Total C	Cover	Percent of Dominant S	Species That	
Sapling/Shrub Stratum (Plot size: 5 ft r)		Are OBL, FACW, or FA	AC: 100.0	00 (A/B
1			<u> </u>		
2. 3.	· · · · · · · · · · · · · · · · · · ·		Prevalence Index wor Total % Cover of:		, by:
3. 4.			OBL species 0	$\frac{\text{Multiply}}{\text{x 1 = 0}}$	by.
5.			FACW species 0		
	=Total C	Cover	FAC species 100		
Herb Stratum (Plot size: ^{5 ft r})			FACU species 0	x 4 = 0	
1. Gramineae	100	FAC	UPL species 0	x 5 = 0	
2			Column Totals: 100	(A) 300	(B)
3			Prevalence Index =	= B/A = 3.00	
4					
5 6.			Hydrophytic Vegetati		otion
7			✓ 2 - Dominance Tes	Hydrophytic Vegeta	311011
		<u> </u>	✓ 3 - Prevalence Ind		
9.				Adaptations ¹ (Provid	de supportino
10				s or on a separate s	
11.			5 - Wetland Non-V	/ascular Plants ¹	
	100 =Total C	Cover	Problematic Hydro	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size: 30 ft r)		¹ Indicators of hydric so		
1.			be present, unless dist	urbed or problemat	tic.
2			Hydrophytic		
% Bare Ground in Herb Stratum 0	=Total C	over	Vegetation Present? Yes_	<u>∨</u> Nо	<u> </u>
Remarks:					

SOIL Sampling Point: SL-2

Profile Desc	ription: (Describe	to the depth	needed to docu	ıment th	ne indica	tor or c	onfirm the	absence o	f indicators.)	
Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Remarks	
0 - 2									Sand fill		
2 - 18	10YR 4/1	100					Muck				
	i										
<u> </u>											
l ———	-						-				
¹ Type: C=Co	ncentration, D=Dep	etion, RM=R	educed Matrix, C	S=Cove	red or Co	ated Sa	and Grains.	² Loca	tion: PL=Por	e Lining, M=N	∕latrix.
Hydric Soil I	ndicators: (Applica	ble to all LR	Rs, unless othe	rwise n	oted.)			Indicators	s for Probler	natic Hydric	Soils ³ :
Histosol			—— Sandy Gle						Muck (A10) (
Histic Ep	ipedon (A2)		——Sandy Red	-						lasses (F12)	(LRR D)
Black His	stic (A3)		Stripped M	latrix (S6	3)			Red F	Parent Materi	al (F21)	
Hydrogei	n Sulfide (A4)		——Loamy Mu	cky Mine	eral (F1) (except	MLRA 1)	Very	Shallow Dark	Surface (F22	2)
1 cm Mu	ck (A9) (LRR D, G)		Loamy Gle	eyed Mat	trix (F2)			Other	(Explain in F	Remarks)	
Depleted	Below Dark Surface	e (A11)	Depleted N	∕latrix (F	3)						
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)						
Iron Mon	osulfide (A18)		Depleted [Dark Sur	face (F7)			³ Indicators	s of hydrophy	tic vegetation	ı and
Sandy M	ucky Mineral (S1)		Redox De	oression	s (F8)			wetla	nd hydrology	must be pres	ent,
2.5 cm M	lucky Peat or Peat (S2) (LRR G)						unles	s disturbed o	r problematic	•
Restrictive L	.ayer (if observed):										
Type:											
Depth (in	ches):		-				Hydric S	oil Present	?	Yes 🗸	No
Remarks:											
HYDROLO	GY										
Wetland Hyd	Irology Indicators:										
Primary Indic	ators (minimum of o	ne is required	d; check all that a	apply)				Secondar	y Indicators (2 or more rec	<u>uired)</u>
Surface \	Nater (A1)		Water-Stai	ned Lea	ves (B9)	(except	t	Wate	r-Stained Lea	aves (B9) (ML	.RA 1, 2
High Wat	ter Table (A2)		MLRA	1, 2, 4A,	and 4B)			4.4	A, and 4B)		
✓ Saturatio	n (A3)		Salt Crust	(B11)				Drain	age Patterns	(B10)	
Water Ma	arks (B1)		Aquatic Inv		, ,			Dry-S	Season Water	Table (C2)	
	t Deposits (B2)		Hydrogen							on Aerial Ima	gery (C9)
	osits (B3)		Oxidized F			-	oots (C3)		norphic Positi		
	t or Crust (B4)		Presence		,	,			ow Aquitard (•	
	osits (B5)		Recent Iro				` '		Neutral Test	` '	• >
	Soil Cracks (B6)	(0.7)	Stunted or			(D1) (LF	RR A)			ls (D6) (LRR /	A)
	on Visible on Aerial I	0, ,	Other (Exp	olain in R	(emarks)			Frost-	-Heave Humr	mocks (D7)	
	Vegetated Concave	Surface (B8)				1				
Field Observ			No. 4	D 41- /							
Surface Wate				Depth (i	· -						
Water Table				Depth (i			Madless	al I livalna la a	D	V V	N.a
Saturation Pr		·s	No	Depth (i	nches): (wettan	a nyarolog	y Present?	res	No
(includes cap	corded Data (stream	gauge moni	toring well aeria	l photos	previous	inspec	tions) if ave	ailable:			
Dogodine idea	o. aca bata (stream	gaago, mom	tornig won, acria	, p. 10103,	, provious	opcc	, ii ave	andbio.			
Remarks:											
]											

VEGETATION Continued – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum	% Cover	Species?	Status	Definitions of Vegetation Strata:
5.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
6.				at breast height (DBH), regardless of height.
7.				Sapling/Shrub – Woody plants less than 3 in. DBH,
8. 9.				regardless of height.
				Herb – All herbaceous (non-woody) plants, including
10. 11.				herbaceous vines, regardless of size.
12.				
		Total Cover		Woody Vine – All woody vines, regardless of height.
Sapling/Shrub Stratum				
6		. <u></u> .		
7.				
8.				
9.				
10				
11				
12				
13				
	=	=Total Cover		
Herb Stratum				
12				
13				
14				
15				
16				
17				
18				
19				
20.				
21.				
22.				
23				
March North Obstant	100	=Total Cover		
Woody Vine Stratum				
3. 4.				
5.				
6.				
7.				
·		Total Cover		
		10101 00101		
Remarks:				

Sampling Point: SL-2

RATING	SUMMARY	Western	Washington
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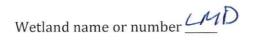
Name of wetland	1 (or ID#): Lake	Mc Donald (ME	Date of site visit: 1/7/2023 VesNo Date of training 12/1
Rated by \square	H Sones	Trained by Ecology?_	LyesNo Date of training/2//
HGM Class used	for rating Depre	SSTONE Wetland has m	ultiple HGM classes? <u>/</u> YN
		without the figures requested	ed (figures can be combined).
OVERALL WETL	AND CATEGOR	RY <u> </u>	nsor special characteristics)
1. Category o	f_wetland based Category I – Total		Score for each
	Category II - Tota Category III - Tota Category IV - Tot	tal score = 16 - 19	function based on three ratings (order of ratings
FUNCTION	Improving Water Quality	Hydrologic Habitat	is not important) 9 = H,H,H
Cita Datautial		Circle the appropriate ratings	8 = H,H,M
Site Potential	H (W) L	H) M L H (M) L	7 = H,H,L

		Improving ater Quality		Ну	drolo	ogic		Habita	at	
				C	ircle	the ap	propi	iate ra	tings	
Site Potential	Н	M	L	H	М	L	Н	M	L	
Landscape Potential	(11)	M	L	H	М	L	Н	M	L	
Value	H	M	L	H	М	L	H	M	L	TOTAL
Score Based on Ratings		8			9			7		24

7 = H,M,M6 = H,M,L 6 = M,M,M5 = H,L,L 5 = M,M,L 4 = M, L, L3 = 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			



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	/
Hydroperiods	D 1.4, H 1.2	Z
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	3
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	4
Map of the contributing basin	D 4.3, D 5.3	5
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	6
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	7
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	8

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 (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	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 (can be added to another figure)	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 (can be added to figure above)	S 4.1	
Boundary of 150 ft buffer (can be added to another figure)	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	

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)? YES - Freshwater Tidal Fringe NO - Saltwater Tidal Fringe (Estuarine) 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. YES - The wetland class is Flats NO - go to 3 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 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 $\angle M$

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.

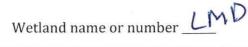
NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of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

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream	Depressional
within boundary of depression	
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other	Treat as
class of freshwater wetland	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.

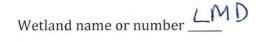
DEPRESSIONAL AND FLATS WETLANDS	
Water Quality Functions - Indicators that the site functions to improve water quality	
D 1.0. Does the site have the potential to improve water quality?	
D 1.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).	
points = 3	
Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet. points = 2	2
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1	
Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	
D 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions). Yes = 4 No = 0	4
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):	
Wetland has persistent, ungrazed, plants > 95% of area points = 5	
Wetland has persistent, ungrazed, plants > ½ of area points = 3	
Wetland has persistent, ungrazed plants $> \frac{1}{10}$ of area	
Wetland has persistent, ungrazed plants $< \frac{1}{10}$ of area points = 0	-
D 1.4. <u>Characteristics of seasonal ponding or inundation</u> :	
This is the area that is ponded for at least 2 months. See description in manual.	7
Area seasonally ponded is > ½ total area of wetland points = 4	-
Area seasonally ponded is > ¼ total area of wetland points = 2 Area seasonally ponded is < ¼ total area of wetland points = 0	
The second of th	a
Total for D 1 Add the points in the boxes above	/
Rating of Site Potential If score is:12-16 = H6-11 = M0-5 = L Record the rating on the first p	age
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 No = 0	1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	1
D 2.3. Are there septic systems within 250 ft of the wetland? Yes = 1 No = 0	1
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?	0
Source Yes = 1 No = 0	0
Total for D 2 Add the points in the boxes above	3
Rating of Landscape Potential If score is: \(\sum_3 \) or 4 = H \(\triangle 1 \) or 2 = M \(\triangle 0 = L \) Record the rating on the f	rst 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 No = 0	
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? Yes = 1 No = 0	/
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 No = 0	2
Total for D 3 Add the points in the boxes above	4
Rating of Value If score is: V2-4 = H1 = M0 = L Record the rating on the first page	

DEPRESSIONAL AND FLATS WETLANDS	
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradation	on
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: Wetland is a depression or flat depression with no surface water leaving it (no outlet) Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outletpoints = 2 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 0	2
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. Marks of ponding are 3 ft or more above the surface or bottom of outlet Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet The wetland is a "headwater" wetland Wetland is flat but has small depressions on the surface that trap water Marks of ponding less than 0.5 ft (6 in) points = 0	7
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. The area of the basin is less than 10 times the area of the unit The area of the basin is 10 to 100 times the area of the unit The area of the basin is more than 100 times the area of the unit Entire wetland is in the Flats class points = 5 points = 5 points = 5 points = 5	3
Total for D 4 Add the points in the boxes above	12
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 No = 0	1
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? (es = 1) 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.)? Yes = 1 No = 0	1
Total for D 5 Add the points in the boxes above	3
Rating of Landscape Potential If score is: \(\sum 3 = H \) 1 or 2 = M \(\sum 0 = L \) 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): • Flooding occurs in a sub-basin that is immediately down-gradient of unit. • Surface flooding problems are in a sub-basin farther down-gradient. Flooding from groundwater is an issue in the sub-basin. points = 1 The existing or potential outflow from the wetland is so constrained by human or natural conditions that the	2
water stored by the wetland cannot reach areas that flood. Explain why points = 0	
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 = 2×10^{-5} No = 0^{-5}	0
Total for D 6 Add the points in the boxes above	-



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 acor more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked. 4 structures or more: points = 4 Aquatic bed 3 structures: points = 2 Emergent 2 structures: points = 1 Scrub-shrub (areas where shrubs have > 30% cover) Forested (areas where trees have > 30% cover) 1 structure: points = 0 If the unit has a Forested class, check if: 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). 4 or more types present: points = 3 Permanently flooded or inundated Seasonally flooded or inundated 3 types present: points = 2 2 types present: points = 1 Occasionally flooded or inundated 1 type present: points = 0 Saturated only Permanently flowing stream or river in, or adjacent to, the wetland Seasonally flowing stream in, or adjacent to, the wetland 2 points Lake Fringe wetland 2 points Freshwater tidal wetland 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 points = 2 If you counted: > 19 species points 1 5 - 19 species points = 0< 5 species 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. Low = 1 point Moderate = 2 points None = 0 points All three diagrams in this row are HIGH = 3points

Check the habitat features that are present in the wetland. The number of checks is the number of points. Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long). Standing snags (dbh > 4 in) within the wetland 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) 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 (cut shrubs or trees that have not yet weathered where wood is exposed) At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by amphibians) Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)	3
Total for H 1 Add the points in the boxes above	14
Rating of Site Potential If score is:15-18 = H7-14 = M0-6 = L Record the rating on the state of	tne first page
H 2.0. Does the landscape have the potential to support the habitat functions of the site?	
H 2.1. Accessible habitat (include only habitat that directly abuts wetland unit). Calculate: % undisturbed habitat + [(% moderate and low intensity land uses)/2] = % If total accessible habitat is: > \(^1/_3\) (33.3%) of 1 km Polygon	7
Undisturbed habitat < 10% of 1 km Polygon points = 0 H 2.3. Land use intensity in 1 km Polygon: If	
> 50% of 1 km Polygon is high intensity land use points = (-2) ≤ 50% of 1 km Polygon is high intensity points €0	0
Total for H 2 Add the points in the boxes above	
Rating of Landscape Potential If score is:4-6 = H	ie Jiist page
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score that applies to the wetland being rated. Site meets ANY of the following criteria: It has 3 or more priority habitats within 100 m (see next page) It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) It is mapped as a location for an individual WDFW priority species It is a Wetland of High Conservation Value as determined by the Department of Natural Resources 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 Site has 1 or 2 priority habitats (listed on next page) within 100 m points = 1 Site does not meet any of the criteria above	2
Rating of Value If score is: 2 = H1 = M0 = L Record the rating on	the first page



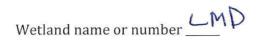
WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (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.

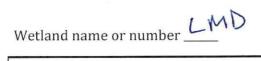
- **Aspen Stands:** Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- Biodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report).
- Herbaceous Balds: Variable size patches of grass and 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.



CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	
SC 1.0. Estuarine wetlands	
Does the wetland meet the following criteria for Estuarine wetlands? — The dominant water regime is tidal, — Vegetated, and	
— 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?	
 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 Spartina, see page 25) At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un- 	Cat. I
mowed grassland. — 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. 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?	Cat. I
Yes = Category I 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	
SC 3.0. Bogs	
Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? Use the key below. If you answer YES you will still need to rate the wetland based on its functions.	
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.	Cat. I
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	



SC 4.0. Forested Wetlands	
Does the wetland have at least 1 contiguous acre of forest that meets one of these criteria for the WA	
Department of Fish and Wildlife's forests as priority habitats? If you answer YES you will still need to rate	
the wetland based on its functions.	
— 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.	
— 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).	
Yes = Category I No → Not a forested wetland for this section	Cat. I
C 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
— 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	
— 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 (needs to be measured near the bottom)	Cat. I
Yes – Go to SC 5.1 (No) Not a wetland in a coastal lagoon	
5.1. Does the wetland meet all of the following three conditions?	
— 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).	Cat. I
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-	
mowed grassland.	
— The wetland is larger than $^{1}/_{10}$ ac (4350 ft ²)	
Yes = Category I No = Category II	
200 C	
C 6.0. Interdunal Wetlands	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If	
you answer yes you will still need to rate the wetland based on its habitat functions.	
In practical terms that means the following geographic areas:	
 Long Beach Peninsula: Lands west of SR 103 	C-+1
Grayland-Westport: Lands west of SR 105	Cat I
Ocean Shores-Copalis: Lands west of SR 115 and SR 109	
Yes – Go to SC 6.1 (No) not an interdunal wetland for rating	
C 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	Cat. I
for the three aspects of function)? Yes = Category I No – Go to SC 6.2	
C 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	Cat. I
C 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	
	Cat. I
Category of wetland based on Special Characteristics	
If you answered No for all types, enter "Not Applicable" on Summary Form	

Wetland name or number ______

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Figure 1 - Cowardin Classes



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Figure 2 - Hydroperiods



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Figure 3 - Outlet



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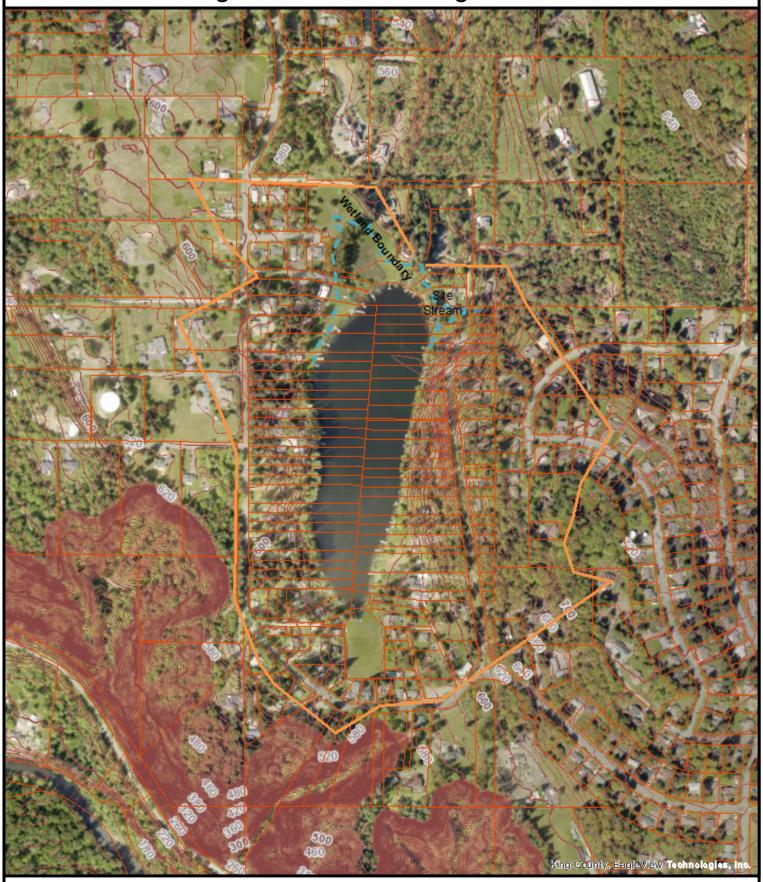


Figure 4 - 150' Boundary 150' Boundary 19731A 14.31Site 14325 . 14611 Ming County, Plotometry Internetional Co

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Figure 5 - Contributing Basin



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Figure 6 - 1 KM Polygon



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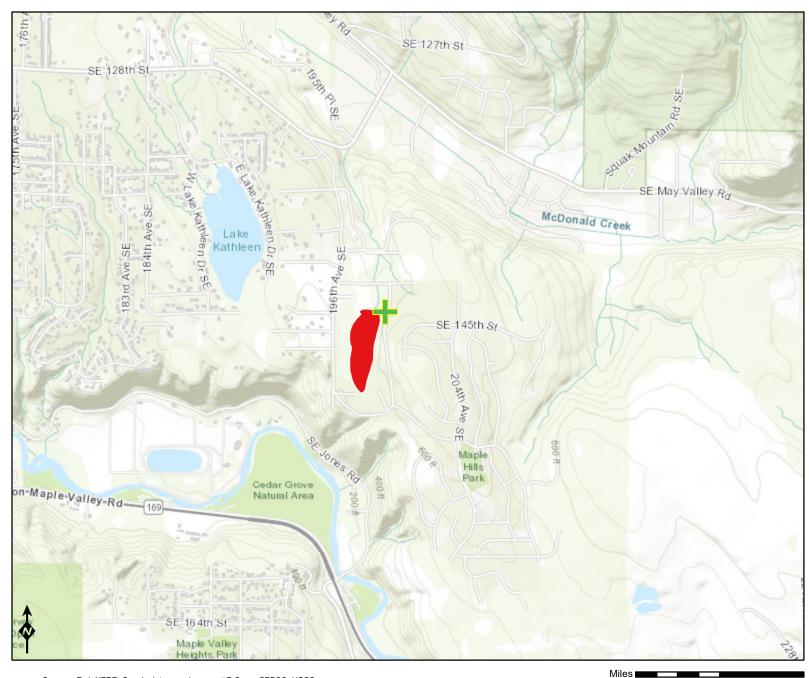
Notes:

Date: 1/7/2022





Figure 7 - 303d Waters



Assessed Water/Sediment

Water

Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

ZZZ Category 5 - 303d

ZZZZ Category 4C

ZZZ Category 4B

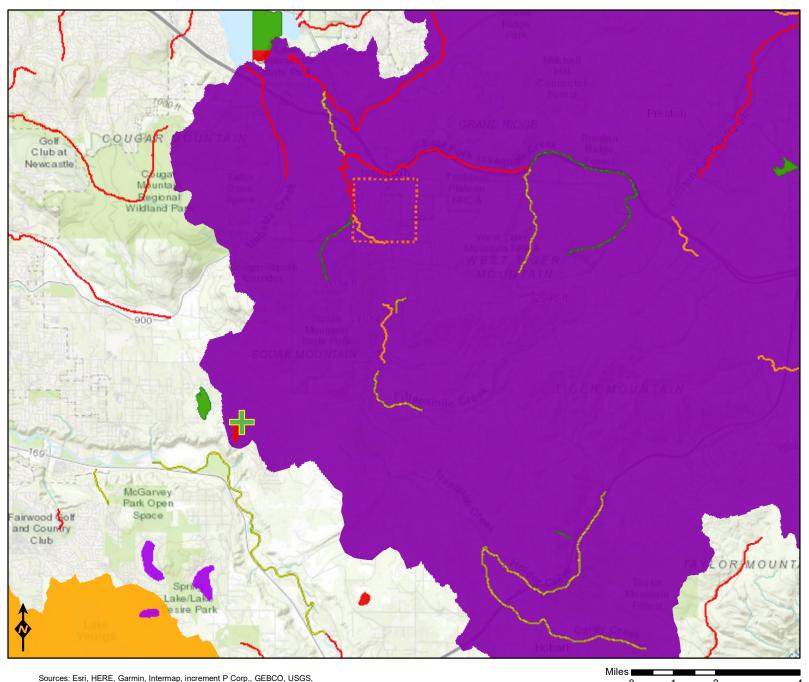
Category 4A

Category 2

0.25

0.5

Figure 8 - TDML's



Assessed Water/Sediment

Water

Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

ZZZ Category 5 - 303d

ZZZZ Category 4C

Category 4B

Category 4A

Category 2

ZZZZ Category 1

WQ Improvement Projects

Approved

In Development

