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October 30, 2020

AOA-6240

Nhu Finney nhufinney@gmail.com

SUBJECT: Wetland and Stream Delineation for Parcels 563150-0685, -0681, and

-0678, Kenmore, WA

Dear Nhu:

On June 18, 2020 I conducted a wetland and stream reconnaissance on the undeveloped subject property utilizing the methodology outlined in the May 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).

One wetland (Wetland A) and one stream (Stream 1) were identified and delineated on the property during the field investigation. The delineated boundary of the wetland and the ordinary high water (OHW) of the stream was subsequently plotted by GPS. **Attachment A** contains data sheets prepared for a representative location in both the wetland and upland. These data sheets document the vegetation, soils, and hydrology information that aided in the wetland boundary delineation.

Wetland A and Stream 1

Wetland A is located throughout the northern portion of the site and consists of a Slope Hydrogeomorphic (HGM) class that generally drains down from south to north. Runoff from the wetland enters Stream 1 which flows within a deeply incised channel from south to north through the eastern portion of the site. Soils within the wetland were typically saturated to the surface at the time of the delineation.

Vegetation within Wetland A and the riparian corridor of Stream 1 consisted primarily of a deciduous forested plant community that included red alder (*Alnus rubra*), black cottonwood (*Populus trichocarpa*), salmonberry (*Rubus spectabilis*), sword fern (*Polystichum munitum*), giant horsetail (*Equisetum telmateia*), lady fern (*Athyrium filix-femina*), and stinging nettle (*Urtica dioica*).

Nhu Finney October 30, 2020 Page 2

Wetland A was recently rated as part of a previous reconnaissance conducted by Acre Environmental Consulting LLC and was determined to be a Category III wetland with 6 Habitat Points (**Attachment B**). Category III wetlands with 6 Habitat Points require a standard 110-foot buffer per KMC 18.55.300.C.4.

Stream 1 is considered a Type F stream with salmonid potential and requires a standard 100-foot buffer from the delineated OHW per KMC 18.55.400.F.

Development Potential

Since the site contains three separate tax parcels, you could potentially develop three residential structures on the property using the City of Kenmore's Reasonable Use Exception and Boundary Line Adjustment provisions. Most of the site except for the southwest portion is encumbered by the wetland, stream, and associated buffers and development of the property will need to occur in the southwest portion of the property as far from the critical areas as possible. Based on these encumbrances it may be more realistic to consider one or possibly two structures in this area.

The first step as part of a development proposal will be to obtain a topographic survey of the site that includes the wetland and stream delineation. Assuming geotechnical concurrence with the development, it is my recommendation that the wetland and stream delineation and rating be submitted to the City for approval as early in the development process as possible.

It appears that the access drive to the potential development area will require impacting a small portion of the wetland. Impacting a wetland for a driveway is an allowed alteration in the City of Kenmore if there is no other option. Impacts must be minimized to the extent feasible and compensatory mitigation will be required. Any direct wetland impacts would also require a permit from the US Army Corps of Engineers.

Compensatory mitigation on this site for both unavoidable wetland and buffer impacts can occur through: 1) enhancing degraded wetland and buffer areas through the removal of invasive species and re-planting with native trees and shrubs or 2) purchasing mitigation credits from the recently approved Keller Farm Mitigation Bank.

Nhu Finney October 30, 2020 Page 3

If you have any questions, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

John Altmann Ecologist

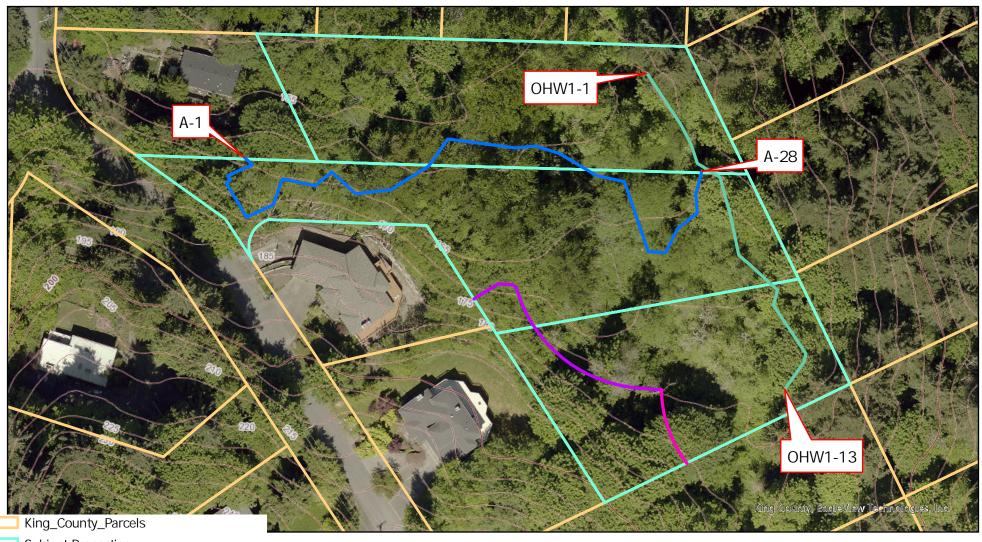
Attachments

City of Kenmore Parcels 563150-0685, -0681, and -0678

Critical Areas Map

AOA - 6240





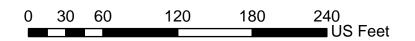
Subject Properties

Approximate OHW Stream 1 Type F

Approximate Wetland A Boundary Cat. III

Approximate 100' Buffer for Stream 1

Approximate 110' Buffer for Wetland A





ATTACHMENT A DATA SHEETS

~8' into wetland at A-12

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

Project Site:	Parcels 563150-0685,				City/Coun	ty: <u>Kenmore/</u>		Sampling	Date:	<u>6-18</u>	3-20	
Applicant/Owner:	-0681, and -0678 Washington State Department of	of Transporta	tion		•	-	State: WA	Sampling	Point [.]	DP#	±1	
Investigator(s):	John Altmann					Section	, Township, Ra			<u> </u>	<u></u>	
Landform (hillslope, te			ı	Local ı	relief (conca	ave, convex, no	•	J		e (%):		
Subregion (LRR):	<u>A</u>	Lat: 47.			`	Long: <u>-122</u>	· · ·		Datum: _			_
Soil Map Unit Name:	<u>KpD</u>					<u> </u>		ssification:	R4SBC			
Are climatic / hydrolog	ic conditions on the site typical fo	r this time of	year?	Yes	s 🛛	No 🗆	(If no, explain	in Remarks.)			
Are Vegetation ☐,	Soil , or Hydrology	□, signifi	cantly distu	rbed?	Are "l	Normal Circums	stances" presen	t?	Yes	\boxtimes	No	
Are Vegetation ☐,	Soil ☐, or Hydrology	☐, natura	Illy problem	atic?	(If ne	eded, explain aı	ny answers in F	Remarks.)				
SUMMARY OF FIN	IDINGS – Attach site map s	howing sa	mpling po	oint le	ocations,	transects, in	nportant feat	ures, etc.				
Hydrophytic Vegetatio	n Present?	Yes 🗵	No [
Hydric Soil Present?		Yes 🗵	No [s the Samp vithin a We				Yes	\boxtimes	No	
Wetland Hydrology Pr	esent?	Yes 🗵	No [⊐ ¨								
Remarks: Located in	n 8' into Wetland off of A-12											
VEGETATION - U	se scientific names of plant	s										
Tree Stratum (Plot siz	e: <u>8'</u>)	Absolute % Cover	Dominan Species?		Indicator Status	Dominance T	est Worksheet	t:				
1. Populus balsamife	<u>era</u>	100	<u>yes</u>		FAC	Number of Do	minant Species					
2.							, FACW, or FAC		<u>5</u>			(A)
3				_		Total Number	of Dominant					(D)
4				_		Species Acros			<u>6</u>			(B)
50% = <u>50</u> , 20% = <u>20</u>		<u>100</u>	= Total C	Cover		Percent of Do	minant Species		00.0			(A/D)
Sapling/Shrub Stratun	<u>n</u> (Plot size: <u>8'</u>)					That Are OBL	, FACW, or FAC	D:	<u>83.3</u>			(A/B)
1. Rubus armeniacus	<u>2</u>	<u>30</u>	<u>yes</u>	<u> </u>	FAC	Prevalence In	ndex workshee	et:				
2. Rubus spectabilis		<u>30</u>	<u>yes</u>	<u> </u>	FAC	I	otal % Cover of	<u>f:</u>	Multipl	y by:		
3						OBL species		_	x1 =			
4				-		FACW species	s	_	x2 =			
5						FAC species		-	x3 =	_		
50% = <u>30</u> , 20% = <u>12</u>		<u>60</u>	= Total C	cover		FACU species		-	x4 =		_	
Herb Stratum (Plot siz	re: <u>8'</u>)					UPL species		-	x5 =		_	
1. Athryium filix-femi	<u>na</u>	<u>20</u>	<u>ves</u>	<u> </u>	FAC_	Column Totals	s:	_ (A)			(E	3)
2. Polystichum munit	<u>tum</u>	<u>20</u>	<u>yes</u>	<u> </u>	FACU		Prevalenc	e Index = B/A	\ =			
3. Equisetum telmate	<u>eia</u>	<u>10</u>	<u>no</u>	<u> </u>	FACW_	Hydrophytic '	Vegetation Ind	icators:				
4. Ranunculus reper	<u>18</u>	<u>10</u>	<u>no</u>	<u> </u>	FAC_	☐ 1 – Rapi	id Test for Hydr	ophytic Vege	tation			
5. Phalaris arundinad	<u>cea</u>	<u>25</u>	<u>yes</u>	<u>I</u>	FACW_		inance Test is >	>50%				
6				-		☐ 3 - Preva	alence Index is	<u><</u> 3.0¹				
7				-		4 - Morp	hological Adap	tations¹ (Prov	/ide suppor	ting		
8						data	in Remarks or o	on a separate	sheet)			
9				-		☐ 5 - Wetla	and Non-Vascu	lar Plants ¹				
10						Problem	natic Hydrophyti	c Vegetation	¹ (Explain)			
11				-		4						
50% = <u>42.5</u> , 20% = <u>17</u>	<u>7</u>	<u>85</u>	= Total C	Cover			hydric soil and v nless disturbed					
Woody Vine Stratum	(Plot size:)											
1				-								
2				-		Hydrophytic	,	Yes	\boxtimes	No		
50% =, 20% =			= Total C	cover		Vegetation Present?		163		NO		ш
% Bare Ground in He	rb Stratum											
Remarks:												
1												

Project Site: Parcels 563150-0685, -0681, and -0678

SOIL Sampling Point: DP#1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features % Color (moist) (inches) Color (moist) % Loc² Remarks Type¹ Texture 0-15 10 YR 3/1 60 10 YR 4/3 <u>40</u> Clay 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 Soils3: Histosol (A1) Sandy Redox (S5) \Box П \Box 2 cm Muck (A10) Histic Epipedon (A2) Red Parent Material (TF2) Stripped Matrix (S6) П Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) \boxtimes Depleted Matrix (F3) П Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: \boxtimes Depth (inches): **Hydric Soils Present?** Yes No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 2, 4A, and 4B) \boxtimes Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) П Sediment Deposits (B2) П Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No \boxtimes Depth (inches): \boxtimes Water Table Present? Yes No Depth (inches): Saturation Present? Yes M Yes \boxtimes No Depth (inches): surface Wetland Hydrology Present? Nο (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

!8' into upland at A-12

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

Project Site: Parcels 563150-06 -0681, and -06			City/Coun	ity: <u>Kenmore/</u>	Sampling Date	e: <u>6</u>	5-18-20	
Applicant/Owner: Finney	<u>70</u>			State: WA	Sampling Poir	nt: <u>[</u>)P#2	
Investigator(s): John Altmann				Section, Township, F				
Landform (hillslope, terrace, etc.):	<u></u>	Loca	I relief (conc	ave, convex, none):		Slope (%	6): <u> </u>	
Subregion (LRR): A	 Lat: <u>47.7</u> 4	<u>165</u>		Long: -122.23782	Da	atum:		
Soil Map Unit Name: KpD				=	classification: <u>F</u>	R4SBC		
Are climatic / hydrologic conditions on the	site typical for this time of y	ear? Ye	es 🛛	No 🔲 (If no, expla	ain in Remarks.)			
		antly disturbed	? Are "	Normal Circumstances" prese	•	Yes 2	₫ No	
		y problematic?		eded, explain any answers ir	ı Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point	locations,	transects, important fe	atures, etc.			
Hydrophytic Vegetation Present?	Yes 🗌	No 🛚	la tha Camr	olod Aron				
Hydric Soil Present?	Yes	No 🛛	Is the Samp within a We			Yes] No	
Wetland Hydrology Present?	Yes 🗆	No 🛛						
Remarks: Located 8' into upland off of A	-12							
VEGETATION – Use scientific nam	es of plants Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size: <u>8'</u>)	% Cover	Species?	Status	Dominance Test Worksho	et:			
1. <u>Alnus rubra</u>	<u>100</u>	<u>yes</u>	FAC	Number of Dominant Speci		<u>2</u>		(A)
2. <u>Thuja plicata</u>	<u>20</u>	<u>no</u>	<u>FAC</u>	That Are OBL, FACW, or F.	AC:	_		(, ,)
3				Total Number of Dominant		<u>4</u>		(B)
4				Species Across All Strata:		_		
50% = <u>60</u> , 20% = <u>24</u>	<u>120</u>	= Total Cover	r	Percent of Dominant Species That Are OBL, FACW, or Face Processing	es AC:	<u>50</u>		(A/B)
Sapling/Shrub Stratum (Plot size: 8')								
1. <u>Rubus armeniacus</u>	<u>70</u>	<u>ves</u>	<u>FAC</u>	Prevalence Index worksh				
2. <u>Rubus spectabilis</u>	<u>10</u>	<u>no</u>	<u>FAC</u>	Total % Cover	<u>of:</u>	Multiply b	<u>y:</u>	
3				OBL species	_	x1 = _		
4 5				FAC appaies	_	x2 = _ x3 =		
		= Total Cover		FAC species	_	-		
50% = <u>40</u> , 20% = <u>16</u>	<u>80</u>	= Total Cover		FACU species	_	x4 = _		
Herb Stratum (Plot size: 8')			5.0 00	UPL species	— (A)	x5 = _		(5)
1. <u>Polystichum munitum</u>	<u>40</u>	<u>ves</u>	<u>FACU</u>	Column Totals:	(A)	-		(B)
2. <u>Ranunculus repens</u>	<u>5</u>	<u>no</u>	<u>FAC</u>		nce Index = B/A =			
3				Hydrophytic Vegetation I				
4				1 – Rapid Test for Hy	· · ·	on		
5				2 - Dominance Test is				
6				3 - Prevalence Index	_			
7				4 - Morphological Ada	aptations¹ (Provide or on a separate sh	supporting	9	
8						ccij		
9				5 - Wetland Non-Vaso				
10				☐ Problematic Hydroph	ytic Vegetation¹ (E	xplain)		
11	45			¹ Indicators of hydric soil an	d wetland hydrolog	gy must		
50% = 22.5, 20% = 9	<u>45</u>	= Total Cover		be present, unless disturbe	d or problematic.			
Woody Vine Stratum (Plot size: 8') 1. Rubus ursinus	20	VAS	FACU					
	<u>20</u>	<u>yes</u>	1 700	Hydrophytic				
2 50% = <u>10</u> , 20% = <u>4</u>	20	= Total Cover		Vegetation	Yes 🗆	I	No	
_	<u>20</u>	- Total Cover	ı	Present?				
% Bare Ground in Herb Stratum								
Remarks:								

Project Site: Parcels 563150-0685, -0681, and -0678

SOIL Sampling Point: DP#2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features % Color (moist) (inches) Color (moist) % Loc² Remarks Type¹ Texture 0-15 10 YR 4/2 100 gravelly clay 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 Soils3: Histosol (A1) Sandy Redox (S5) \Box П \Box 2 cm Muck (A10) Histic Epipedon (A2) Red Parent Material (TF2) Stripped Matrix (S6) П Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) П Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): **Hydric Soils Present?** Yes No Remarks: Likely landslide deposit. No redoximorphic features **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) П Sediment Deposits (B2) П Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) FAC-Neutral Test (D5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stresses Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No \boxtimes Depth (inches): Water Table Present? Yes \boxtimes No Depth (inches): Saturation Present? Yes \boxtimes Yes No \boxtimes Depth (inches): Wetland Hydrology Present? Nο (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Dry

Attachment B Wetland Rating by Acre Environmental Consulting LLC

Wetland name or number A

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HGM Class used for rating Slope	Rated by Emashis Cr	Name of wetland (or ID #): 1 NAE	
HGM Class used for rating Slope. Wetland has maniple HGM classes? YXN	Trained by Ecology? X Yes No Date of training 9, 30, 14	Name of wetland (or ID#): FLANCY WET A Date of site visits 8,15,19	

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

Source of base sensi photo/map King County i Map, Gardle Girth.

OVERALL WETLAND CATEGORY \(\) (based on functions \(\times\) or special characteristics \(\)

Category III - Total score = 16 - 19 Category IV - Total score = 9 - 15 Improving Hydrologic Habitat Water Quality Fig. 11 H M C H M C H M C H Fig. 12 H M C H M C H Fig. 14 H M C H M C H Fig. 15 H M C H M C H Fig. 16 H M C H Fig. 17 H M C H Fig. 17 H M C H Fig. 18 H Fig.	Score Based on Rulings	Smea	Landscape Potential	Site Patential		FUNCTION		1	1
Phydrologic Hableat Challe the appropriate rathing H (M) (H (6	- W (E)		1				Category III - I	1
Habitat Habitat	5	1 (W) H	(S)	= ×	Citals the opt	Hydrologic	otal score = 9 - 1	otal score = 16-	Carlotte Schoolsen
	¥	J M E	E -		repriete ruthus	Habitat	6	19	99

Weisand Rating System for Western WA: 2014 Update Rating Form - Effective January 1, 2015

None of the above

Mature Forest Old Growth Forest Coastel Lagorn

Interdunal

A III II I

Weetland name or number A

Maps and figures required to answer questions correctly for Western Washington

Degressional Wetlands

Mup of:	To attacker questions:	Figure
Cowardin plant disses	D13, H11, H14	
Hydroperiods	D14,H12	1
Location of outlet (can be without in map of hydroperiods)	011.041	
Boundary of area within 150 ft of the wetland from be poded to protite figure)	-1	
	D4.3. D5.3	
1 km Polygon: Area that extends 1 km from entire westerd edge - including pulygons for excessible habitat and undergraded hidred.	HZ1, H22, H23	
Screen capture of map of 303(d) leted waters in basin (from Ecology website)	03.1,03.2	
Screen capture of list of TMDEs for WRIA in which unit is found (from web)	03.3	

ie Wetlands

Mappel:	To answer questions:	Figure 6
Cowardin plant classes	HLL,HL4	
Hydropenods	H12	
Pooded depressions	81.1	
Boundary of area within 150 ft of the wetland from be notified to enotifier figure)	B74	1
Plant cover of trace, shirabs, and herbaceous plants	R12.R42	1
Width of unit vs. width of stream (can be added to proche figure)	RAL	
Map of the contributing basin	822 R25 R52	
 I/m Polygon: Area that extends I for from unitin withind edge - including polygons for accessible habitat and undiscurbed habitat. 	H34, H23, H33	
Screen capture of map of 303(d) listed waters in basin (from Ecology webset)	83.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R32, R33	Ì

Lake Fringe Wetlands

Map oft	To answer questions:	ounties
Cowardin plant classes	113 143 H11 H14	-
Nant cover of trees, shrubs, and herbicorous plants	113	1
	1000	-
soundary of erea within 150 ft of the wetland (can be added to another figure)	12.2	
For Polygon: Area that extends 1 km from onthe westand edge - including	H21, H23, H28	1
screen capture of map of 303(d) listed waters in besin (from Ecology website)	13,2,13,2	1
crean capture of fise of TMBLs for WRIA in which unit is found ffrom web!	EE1	

Slope Wetlands

တ

CHARACTERISTIC Estuarine

CATEGORY

Wetland of High Conservation Value

Mapot	To answer exections:	Figure
beardin plant dasses	WIN THE	-
Adropariods	H12	-
anticover of idease trees, shows, and herbaceous plants	513	-
Plant corner of dense, rigid tracs, wholes, and herbaceous plants (con be odded to figure above)	Tos	-
loundary of 150 ft buffer (can be added to another figure)	521, 55.1	-
un Pohygon; éres that extends 1 km from online wetland edge-including bygons for accessible habitat and undesturbed habitat	H2A, H22, H23	4
reen depture of map of 303(d) listed waters in bostn (from Ecology website)	\$84.532	در
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	533	9

Weiland Rating System for Western WA: 2016 Update Rating Form - Effective January 1, 2015

Wedand name or number A

HGM Classification of Wetlands in Western Washington

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

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

questions 1-7 upply, and go to Question 8.

NO - go to 2)

YES - the wetland class is Tidal Fringe - go to 1.1

. I terms salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

NO - Saltwater Tidal Fringe (Estuarine)

score functions for estuarine wedands. is Saltwater Tidal Pringe it is an Estyarine wetland and is not scared. This method cannot be used to If your westland can be classified as a Breshwater Tidal Fringe use the forms for Riverine westands. If it YES - Freshwater Tidal Fringe

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

NO-BOTO

If your wetland can be classified as a Flats wetland, use the form for Depressional wetlands. YES - The wetland class is Plats

Does the entire wetland unit meet all of the following criteria?

The regetated part of the welland is on the shores of a body of permanent open water (without any At least 30% of the open water area is deeper than 6.6 ft (2 m) plants on the surface at any time of the year] at least 20 ac [8 ha] in size;

NO-go to

VES - The writiand class is Lake Fringe (Lacustrine Fringe)

Does the entire wetland unit meet all of the following criteria?

The wetland is on a slope (slope can be very gradual).

X. The water leaves the wetland without being impounded X. 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.

NO - go to 5

VES - The wetland class is Slop

shallow depressions or healind hummorks (depressions are usually <3 ft diameter and less than 1 ft NOTE: Surface water does not jame in these type of wetlands recept seems. mily in very small and

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

The overbank flooding occurs at least once every 2 years

Wetland Rating System for Wessern WA: 2014 Update Bating Form – Effective January J., 2015

Wetland page or number A

NOTE: The Riverne unit can contain depressions that are filled with water when the river is not YES - The wedand class is Rivering

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 worland class is Depressional

Is the entire welland unit located in a very flat area with no obvious depression and no overbank Bullet 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 disched, but has no obvious usuard

NO - go to B

YES - The wednind class is Depressional

Your wetland unit seems to be difficult to classify and probably contains several different HGM wetland unit being scored. appropriate class to use for the rating system if you have several HGM classes present within the AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following lable to identify the WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIPPERENT 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

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

Salt Water Tidal Fringe and any other class of freshwater wetland	Riverine + Lake Fringe	Depressional + Lake Fringe	Depressional » Riverine along stream within boundary of depression	Skipe + Lake Fringe	Slope + Depressional	Slope + Riverine	being rated
Treat as ESTUARINE	Riverine	Depressional	Depressional	Lake Fringe	Depressional	Riverine	use in rating

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

Bulling Form - Effective landary 1, 2018 Westend Baring System for Western WA: 2014 Update

Wedand name or number A

Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0. Date the site have the potential to improve water quality? 1.1.0 thereticates of the average stops of the welland: (a 1% stope has a 1 ft vertical diago is elevely.) 5.1.0 for horozonial diagner) Store is 7.5-5.5 Store to greater than 5% 5.1.2 The sidd in below the surface for defit layout is prescribed an account of the welland but trap sedments and politates. As the contest side of the plants in the welland but trap sedments and politates. 5.1.3 Characteristics or the plants of the discribed matches and politate plants in the welland. Determinents are higher how 6 in. Dense, uncord, feetbackout plants > 30 of area Dense, uncord, feetbackout plants > 30 of area Dense, uncord, feetbackout plants > 30 of area Dense, uncord, senter 5 of are	d pug 4	Record the rating on the first page	Rating of Site Potential if score to: 12=H 6-41+M X0-5=L
ns to improve water quality col drop to elevation for every points = 3 points = 1 points = 1 points = 1 points = 0 e wetland, Deme menus you or notweed and plants are nigher points = 5 points = 5 points = 3 points = 0	2	Add the points in the hoxes above	
ns to improve water quality column to recept points = 3 points = 1 points = 1 points = 1 points = 3 RCS definitions: Yes = 3 No. = 0 # wetland, Dense means you or notwood and plants are nigher points = 5 points = 5 points = 5 points = 3 points = 1 points = 1		points = 0	Does not meet any of the criteria above for plants
cal drop to elevation for every points = 3 points = 2 points = 1 points = 1 points = 1 points = 0 est definitions): Yes = 3 No. = 0 est welland, Deme menus your or moved and plants are nigher points = 5		I - strike	Desce, under, herbaceous plants > % of area
tool drop to elevation for every points = 3 points = 2 points = 0 points = 0 points = 0 PCX definitions: "Yes = 3 No = 0 execution! Democratic are region or natived and plants are region points = 3 points = 3 points = 5	v	points = 2	Denie, woody, pants > % of area
SLOPE WEILANDS Water Quality Functions - Indicators that the site functions to improve water quality 1.1.0 Coast the site have the potential to improve water quality? 1.1.1 Characteristics of the average slope of the weithind: (a 1% slope has a 1 it vertical drop to elevation for every slope is 1% in less slope in 2 1% slope in 1 1% in slope slo	0	points = 3	Dentile, uncord, herbottebus plants > % of area
SLOPE WELLANDS Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0. Coast the site have the potential to improve water quality? 6.1.1. Characteristics of the average stope of the wetlands to \$75 stope has a 1 if vertical drop to elavation for every. 6.1.3. Characteristics of the surface stope of the wetlands to \$75 stope has a 1 if vertical drop to elavation for every. 6.1.3. Shoe is 214-236. Sh		points a 6	Dense, unous, feetbaseous plants > 90% of the wettand area.
SLOPE WEILANDS Water Quality Functions - Indicators that the site functions to improve water quality 1.1.0 Coast the site have the potential to improve water quality? 1.1.1 Characteristics of the average slope of the weithind: (a 1% slope has a 1 it vertical drop to elevation for every slope is 1% in low. Slope is 1% in low. Slope is 24%.2% sl		ed or mowed and plants are Righer	have trouble seeing the soil surface (>75% cover), and untuit means not greathing 6 in.
SLOPE WELLANDS Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0. Court the site have the potential to improve water quality? 1.1. Characteristics of the average stope of the wetlands (a 3% slope has a 1 it vertical drop is elevation for every 100 frol horizontal distance) 5.1.2 Characteristics are a specific surface of the wetlands (a 3% slope has a 1 it vertical drop is elevation for every 100 frol horizontal distance) 5.1.2 Characteristics are a specific surface of the wetlands (a 3% slope has a 1 it vertical drop is elevated a points = 3 slope is 14% 2% slope in 2 th 2 2% 5% slope in 2 th 2 2% 5% slope in 2 th 2 2% 5% points = 1 points = 0 th 3 th		the well-ind, Demo means you	5.1.3. Characteristics of the plants in the westend that trap sedments and pollutar Choose the points appropriate for the description that best fits the plants in
Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0 Does the site have the potential to improve water quality? 5.1.1 Characteristics of the average slope of the welland: (a 1% slope has a 1 ft vertical drop in vicuation for every 100 ft of horizontal distance) Slope in 18 in 1835 Slope in 28 in 1835	0	NRCS definations: Yes = 3 No + 0	\$ 1.2. The soil 2 in below the surface (or duff layer) is thus also or true organic force
Water Quality Functions - Indicators that the site functions to improve water quality 1.1. Characteristics of the average slope of the welland: (a 1% slope has a 1 ft vertical drop in elevation for every 1.0. Flow in the site have 1.0. Flow in the average slope of the welland: (a 1% slope has a 1 ft vertical drop in elevation for every 1.0. Flow in the site has a slope in the slope has a 1 ft vertical drop in elevation for every Slope in 5 44-25. Slope in 5 24-25.		points = 0	Slope is greater than 5%
SLOPE WEILANDS Water Quality Functions - Indicators that the site functions to improve water quality 1.0. Court has the have the potential to improve water quality? 1.1. Characteristics of the average slope of the weithind: (a 1% slope has a 1 ft vertical drop to elevation for every slope in 1% or less	-	paires = 1	State 11 > 2%-5%
Water Quality Functions - Indicators that the site functions to improve water quality 51.0. Does the site have the potential to improve water quality? 51.0. Characteristics of the average stope of the wetland; to \$75 stope hos of \$1\$ vertical drop is elevation for every. 51.0 for horozonial dutume? 51.0s is \$15 or less.		politic= 2	Slope is > 1%-2%
Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0. Does the site have the potential to improve water quality? 1.1. Characteristics of the average stope of the wetlands to \$% stope has a 1 it vertical drop to elevation for every 1.0. It of horizontal durance)		points = 3	Stope is 1% or less
Water Quality Functions - Indicators that the site functions to improve water quality 5.1.0. Does the site have the potential to improve water quality?		rtical drop in elevation for every	 I.J. Chirafteristics of the average slope of the wetland: (a 1% slope has a 1 ft w 100 ft of horizontal durance)
Water Quality Functions - Indicators that the site functions to improve water quality			\$1.0. Does the site have the potential to improve water quality?
		ions to improve water quality	Water Quality Functions - Indicators that the site function

 $5.2.1~\mathrm{k} > 10\%$ of the area within 150 from the uphill side of the webland in land uses that generale pullulants? 5.2.0. Does the landscape have the potential to support the water quality function of the size? Total for 52 S 2.2. Are there after sources of pollutants doming into the well-ind that are not listed in question \$ 2.17 Other sources Add the paints in the boxes above
Record the rating on the first page Yes-1 No=0 0

Rating of Landscape Potential If some is: X12 a M __ 0=L

 Social list:
 Wes = 1. No = 0
 S = 2. List he waitaned in a basin or sub-basin where water quality it an issue? At least one equation resource in the analy it on the subject on the subject in a water-stood or local plan as important for maintaining mater quality? Account FES = 3.3. Has the situation of the basin to water-stood or local plan as important for maintaining mater quality? Account FES = 3.3. Has the situation of the basin to water-stood or local plan as important for maintaining mater quality? Account FES = 3.3. Has the situation of the basin to water-stood or local plan as important for maintaining material quality? Account FES = 3.3. Has the situation of the basin to water-stood or local plan as important for maintaining material quality? Account FES = 3.3. Has the situation of the basin to water-stood or local plan as important for maintaining material quality? Total for \$3 5.3.1. Over the westend discharge directly (i.e., within 1.ms) to a stream, nver, take, or marine water that is on the \$3.0. Is the water quality improvement provided by the site valuable to society? Add the points in the boxes above 0

T=0 W=T H=P-SX -8 64075 II BUILD SO BUILD

Resard the rating on the first page

approximately 4%. wathand is

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Wetland name or number A

-	Add the points in the boxes above	Tobl for 3.6
0	ice in a regional flood control plan? Ves=2 No=0	5.6.2. Has the still been identified as important for flood storage or flood convergence in a regional flood control plan? Yes = 2. No = 0. Yes = 2. No = 0.
-	Frasult in damage to homen or points = 2 points = 1 points = 1 points = 1	5.6.1. Distance to the nearest areas downstream that have flooding problems: The stab basis immediately down gradient of size has flooding problems that result is damage to immen or natural resources (e.g., houses or salman needs) points. Surface flooding problems are in a sub-basin further down-gradient, points. No flooding problems anywhere downstream. points.
		5.6.0. Are the hydrologic functions provided by the site valuable to society?
e first per	Record the rating on the first page	Batting of Landbodge Potential If score is: X1=M 0=L
-	Foover that generate excess Yes of I No = 0	5.2.1 is more than 25% of the area within 158 ft updape of walland in land uses or cover that generale excess surface numbf? Yes c.1. P. Service in the cover of the
	ctions of the site?	\$5.0. Does the landscape have the potential to support the flydrologic functions of the site?
e first pa	Record the rating on the first page	Rating of Sica Potential If score is: 1=M Z.0=L
0	mit: Choose the points appropriate theorie be shick enough (usually a 1/4 points = 1 points = 0	5.4.1. Characteristics of plants that reduce the widely of runtice flows during storms: Choose the prints appropriate. For the description that these fits conditions in the well-of. Short of plants should be that enough fusionly of fig. in druce whose, for expensive executions surpless flows. Dense, under, rigid plants cover a 90% of the well-of. At other conditions points = 0 At other conditions
	on?	5.4.0. Does the site have the potential to reduce flooding and stream erosion?
on .	educe flooding and stream erosic	SLOPE WETLANDS Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion

NOTES and FIELD OBSERVATIONS:

Wedland name or number A

in this row ere High : 3points All three diegrams H 1.4. Interspersion of hebitats H.1.1. Structure of plant community: Indicators are Committed classes and protein within the Forested Class. Check the Committed plant classes in the exittend. Up to 10 parches may be combined for each class to meet the threshold of 3 its or move than 10% of the unit if it is probler than 2.5 or, Add the number of structures checked. H 1.3. Richness of plant species H 1.2. Hydroperiods H 1.0. Does the site have the potential to provide habitat? HABITAY FUNCTIONS - Indicators that site functions to provide important habitat Nane = 0 points Decide from the disgrams below whicher interspension among Cowardin plants disease (described in H. 1.1), or the classes and unvegetated areas (onr include open water or mudifield) is high, maderate, low, or none, if you Different patries of the some species can be combined to must the size threshold and jou do not have to name the species. Do not heliade Eurosian miljod, read tenenymous, perple loosestrife, Conadian thistic Check the types of water regimes thydroporiodal present within the westerd. The water regime has to cover more than 10% of the westend or is set to reven! See text for descriptions of hydroporiods]. have faur or more plant classes or three classes and open water, the rating it always high #you counted: > 19 species Saturated only Permanently flowing stream arriver in, or adjacent to, the wetland Count the number of plant species in the westered that cover as least 10 ft.". If the unit has a Forested class, pheck if: The Forested class has 3 out of 5 strata (tanopy, sub-carroty, stirula, herbateous, moss/ground-count). Sorab shrub (areas where strubs have > 30% cover) Forested (areas where times have > 30% cover) Aquatic bed Freshwater tidal wetland Lake Fringe wetland Emergant Seasonully Recided or inundsted Permanently flooded or inundated Sweetenstly flowing stream in, or adjacent to, the wetland Occasionally flooded or inundated that each cover 20% within the Forested polygon 5 - 19 species < 5 species These questions apply to wattands of all HGM classes, Law - I point 4 or more types present: points = 3 4 structures or more: points = 4 Moderate = 2 points 1 type present: points = 0 2 types present: points = 1 3 types present: points = 2 2 Writetures: points = 1 3 wructures: points = 2 1 structure: points = 0 points = 1 points = 0 points = 2 2 points 2 points 9

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Wetland name or number A

Wethard Rating System for Western WA: 2014 Update Rolling Form - Effective January 1, 2015

Westand name or number A

WDFW Priority Habitats

Exactly habitats listed by WDEW (see complete descriptions of WDFW priority habitats, and the rounties in which they can be found, in: Washington Department of Fish and Wildlife, 2008. Priority Habitat and Species Lest Olympia, Washington. 177 pp. 1464 1764 (Nathamanage Lineskington) (165 National) 135.04 of access the list from here. 1874 (National) 1365 (Nationa

Countinow many of the following priority habitats are within 330 ft (100 m) of the wetland units WOTE: This question is independent of the Jond set between the workend mitransical priority habitan.

- Aspen Stande: Pure or mixed stands of aspen greater than 1 at (0.4 ha).
- Biodiversity Areas and Coroldors: Areas of habitus that are relatively important to various species of sative fish and within (fail descriptions in WDFW PHS report).
- Berbareous Balde: Variable size patches of grass and forbs on shallow soils over bedrock.
- Old-growth/Mature forests: <u>Old-growth sect of Castale crest</u> Stands of at least 2 tree species, forming a multileaved deningly with occasional small openings, with at least 8 trees/act (20 trees/act) = 32 is (85 fm.) (bit or > 200 years of age: <u>Mature Europt</u> - Stands with average denies are exceeding 21 in (53 cm.) dob; grown sower may be less treat 100%; doesn, despitemen, numbers of stragg, and quantity of large downed material is generally less than that found in old grownth; 80-200 years old west of the Castade crest.
- Oregon White-Oaks Woodland stands of june unit or only confirm associations where terrupy coverage of the oak component is important (full descriptions is WDFW PHS reports 1.58 – see web intended.)

Ripartan The area adjacent to aquabt systems with Bowing water that contains elements of both aquatic and partial ensystems which monally influence each other.

 Westside Prairies: Fleriouseus, non-forested plant communities that can etitize take the form of a dry pridrie of a wet prairie (full descriptions to WD-PW PMS report p. 161 - use web (init above).

Instream /The containation of physical, biological, and chemical processes and conditions that interact to possible under the behavior requirements for instream field and weblife resources.

- Nearshore: Relationly understook businesses that industrianced Nearshore, Open Guas Nearshore, and
 Puget Sound Rearshore: (fall discuspitions of Patriotic and the definition of relatively undaturated are in WDFW reportasecuely link an previous page).
- Caves: A naturally occurring covity, resess, sold, or system of interconnected passages under the earth in sulls, rock.
 Co. or other prological formations and is large enough to contain a humain.
- Cliffer Greater than 25 ft (7.6 m) high and occurring below 5000 ft viavation
- Talast Homogenous arous of rook rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, and other and/or sedimentary 2005, including riprap slides and more tailings. May be associated with cliffs.

Suage and Logs:/Trees are considered maps if they are dead or dying and extinit sufficient days; characteristics to
makine early of existion/use by wildlife. Priority suage have a diameter at breast height of > 20 in (5) and in restern
underlyinfront are > 0.5 ft (2 m) in restern
underlyinfront are > 0.5 ft (2 m) in brieght. Priority logs are > 12 in (30 ms) in diameter at the largest end, and > 20 ft
(ft m) long.

Note: All vigetated wethinds are by definition's privrity bublish but are not included in this list because they are addressed eleawhere.

Welland Railing System for Western WA: 2014 Update Railing Form - Effective January 1, 2015

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Wetland name or number A

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

- At treat Not the landward edge of the westand has a 100 it buffer of shrub, forest, or un grazed or un-	Check off any opinion files uppely to the webbyed Charle the cultispery when the appropriate critivity are met. SC 1.0. Estuarline weblands Does the well and meet the following criticis for Etiturine weitands? The dominant water regime is total, Vis.—Go to 5C 1.1. Rec. Hot an estuarline weitands? The dominant water regime is total, Vis.—Go to 5C 1.1. Rec. Hot an estuarline weitands With a salinty greater than 0.5 ppt Yes.—Go to 5C 1.1. Rec. Hot an estuarline weitands Yes.—Go to 5C 1.1. To the webland within a Mutual Middle Reduce, National Park, National Estuarry Residency, National Alea, Provious, Seato Park of Educational, Environmental, or Sciences Resource designated under Wild. 392-99-1513 The weitand unit at favor 1 as in suce and meets at least two of file following these conditions; The weitand unit at favor of non-various plant species. (If non-various are Sporting, see page 25) Cab. 1 The weitand of course of non-various plant species. (If non-various are Sporting, see page 25) Cab. 1	ğ. ğ.	" - 13 - We - FE O S FO S FO =
		G.	SC.1.1 is the wetand within a National Wildlife Reduga, National Park, National Estuary Reserve, Hazural Avia. Preserve, State Park of Educational, Environmental, or Scientific Reserve dissignated under WAC 312-95-1512. Preserve, State Park of Educational, Environmental, or Scientific Reserve dissignated under WAC 302-95-1512.
CIST.	y to the wetland. Drain the surgery when the appropriate tritoria are met.	+ 1	Does the well-wide trace the following criticia for Estivenine weiginds? The dominant water regime is total, - Vegetated, and - With a calinity greater than 0.5 ppt Yes - Go to 5C 1.3 Re- Hot an estuarine welland
the following order to Fellowine werkinds? I regime is bost. Yes –GS to SC 1.1 (No: Not an estuarine werking) Hathonal Wildlife Reduge, National Park, National Istuary Restrictive, Matural Area Educational, Environmental, or Scientific Resonal disagraded under WAC 312-95-1513 (Fig Category) No: -Go to SC 1.2		100	ly to the wetland. Drain the surgery when the appropriate tritoria are met.

Weiland Batting System for Western Wei 2014 Update Flating Form - Effective January 1, 2015

Wetland hame or number A

	Category of wetland based on Special Characteristics
CHE III	SCELL is the westand 1 ac or larger and scores an 8 or 9 for the habitat Aunctions on the form frates k.H.S or H.H.M. Yes: Casegory He - Go to 80 6.2 SC 6.2 is the westand 1 ac or larger, or it is no account of westands that is 1 ac or larger? No - Go to 50 6.3 is the winth between 0.1 and 1 ac, or 6 if hy a mossic of westands that is been accounted 1 and 1 ac? SC 6.3 is the sumb between 0.1 and 1 ac, or 6 if hy a mossic of westands that is because 0.1 and 1 ac? Yes - Category III No - Category IV
3	SC 6.0. Inter-dural Westlands In practical forms that means the following geographic areas: In practical forms that means the following geographic areas: Long Beach Parlimeter: Lands west of SR 103 — Grayland Westlands: Lands wastlands of SR 105 — Doesn Shares-Copairs, Lands wastlands (95 – 65 to SC 6.1.) (10 – not an inter-dural westland for raphig.)
B 8	SC 9.0. Wetlands in Coastal Lagooms Does the wellbod meet all of the following crivers of a wetland in a coastal tagoom? The wellbod meet all of the following crivers wavers that it whichy or partially apparated from marine waters by sandbanks, grayed banks, shingle, or, lest insquently, not a. The lagoon in which the wetland is localled contents gended water that its calmo at thracket is of the following the property of the lagoon (hase)s (pale-most profit of meet between the general file of the following three conditions? V.C. 5.1. Boes the wetland meet all of the following three conditions? The wetland to relatively undisturbed play no differ, distinct, filing, custivation, grazingly, and has been been 20% cover of aggressive, apparentiability plant a period (as each of species), and has less than 20% cover of aggressive, apparentiability plant aperiod (as each of species) are species or undistinct of the landward edge of the wetland has a 100 ft buffer of another or undistinct or un-ground or unsured weekland is targer than $V_{\rm file} \approx (4350 {\rm Hz})$ Yes = Category I. No - Category II.
ĞF.	Does the wethind have at least 1_contequence pot for est that minest one of these criteria for the WA Department of fight and Wildlife's tracest as priority halliture? If you areser? YES you will aftill need to river, the westland based on its punction. — Oth growth thrests west of Cascada crists! Sanda of at least two tree species, forming a math-layurest critery; with occasional small openings; with at least 8 trees/as (20 mas/hall that while a least 200 years of age OS, trace) at time of a three as height (don) of 33 in 163 cm, or more. — Mature towards (wast in the Cascade Crest: Stands where the largues trees are 80-200 years old OS the species that make up the canopy have an awards where the largues trees are 80-200 years old OS the species that make up the canopy have an awards where the largues trees are 80-200 years old OS the species that make up the canopy have an awards where the largues trees are 80-200 years old OS the species.

Wetland name or number A

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rs for H2 0

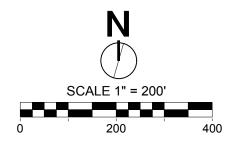
7	
29 737 611 SF 780/	High intensity LU
1,286,717 SF 30%	Accessible relatively undisturbed LU
3,299,89655 9%	Relatively undisturbed LU
O SF	Accessible moderate & low intensity LU
5, 104,491 SF 13º%	Moderate & low intensity land use (LU)
38,141,998 SF	1km area
SWERS FOR HZ.O.	map measurements used to determine answers for HZ.O.

п



RATING ANSWERS FOR WETLAND A

- S1.3 Dense, uncut herbaceous plants > 1/2 of the wetland area.
- S4.1 Dense, uncut, rigid plants cover < 90% of the area of the wetland.
- S2.1 & S5.1 Approximately 26% of the area within 150' of the uphill side of Wetland A is in land use that generates pollutants and excess runoff.
- H1.1 & H1.4 The wetland contains scrub-shrub and forested vegetation. The forested class has 3 out of 5 strata that each cover 20% within the forested polygon; and low interspersion.
- H1.2 The wetland contains saturated only, and permanently flowing stream, hydroperiods.



Acre Job: 19056 Drawn By: L. Emenhiser Figure 1 of 4 Date: 08.19.2019

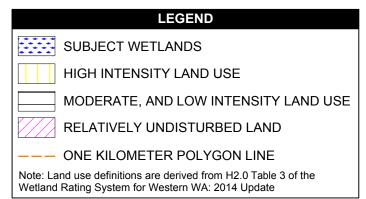
PREPARED FOR: Nhu Finney 15527 SE 252nd Place Covington, WA 98042 WETLAND RATING MAP FINNEY - 76TH PLACE NE KENMORE, WA

KENMORE, WA TAX PARCEL NOS. 563150-0685, 563150-0681, & 563150-0678.

PREPARED BY:
Acre Environmental Consulting, LLC
17715 28th Avenue NE
Lake Forest Park, WA 98155
Phone: (206) 450-7746
Email: louis@acreenvironmental.com







This map was used to derive answers for questions H2.1, H2.2, and H2.3.

APPROX. SCALE 1" = 1,000'

Acre Job: 19056 Drawn By: L. Emenhiser Figure 2 of 4 Date: 08.19.2019

Rev#:

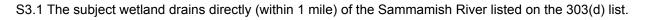
PREPARED FOR: Nhu Finney 15527 SE 252nd Place Covington, WA 98042 1KM POLYGON MAP (UNDISTURBED & ACCESIBLE HABITAT)
FINNEY - 76TH PLACE NE

FINNEY - 761H PLACE NE KENMORE, WA TAX PARCEL NOS. 563150-0685, 563150-0681, & 563150-0678. PREPARED BY:
Acre Environmental Consulting, LLC
17715 28th Avenue NE
Lake Forest Park, WA 98155
Phone: (206) 450-7746
Email: louis@acreenvironmental.com



2,000

1,000



S3.2 The subject wetland is located in a basin or sub-basin with an aquatic resource listed on the 303(d) list.



cre Environmental Consulting, 17715 28th Avenue NE Lake Forest Park, WA 98155

DOE 303(d) Waters in Basin (Screen Capture)
FINNEY - 76TH PLACE NE
KENMORE, WA
TAX PARCEL NOS. 563150-0685, 563150-0678.

PREPARED FOR:

Nhu Finney
15527 SE 252nd Place
Covington, WA 98042

awn By:
Emenhiser
gure 3 of 4 1

S3.3 Based on the Department of Ecology's TMDL Boundaries webpage, no TMDL's have been identified for Lake Washington or the Sammamish River Basin in which this wetland rating unit is found.



TMDL'S FOR WRIA 8 (Screen Capture)
FINNEY - 76TH PLACE NE
KENMORE, WA
TAX PARCEL NOS. 563150-0685, 563150-0678.

PREPARED FOR: