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October 18, 2023

Denis Karnafel denis@parkplacewa.com

AOA-6570

SUBJECT:

Critical Areas Study for Critical Areas Alteration Exception on Parcels 375160-3419, -3417, and -3415, King County, WA

PREA21-0277

Dear Denis:

On July 20, 2021 I conducted an initial wetland reconnaissance and delineation 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). An additional field investigation was conducted on January 27, 2022. The property consists of three undeveloped tax parcels that all consist of mixed upland forest that slope gently down from east to west.

1.0 EXISTING CRITICAL AREAS

Although no wetlands were identified on the site, one wetland (Wetland A) was identified and delineated off-site to the west. Wetland A is part of a large Depressional Hydrogeomorphic (HGM) class wetland system that includes Spider Lake further off-site to the southwest. Vegetation within Wetland A in the vicinity of the three subject parcels consisted of a forested plant community that was dominated by Oregon ash (*Fraxinus latifolia*), spirea (*Spiraea douglasii*), red-osier dogwood (*Cornus sericea*), and climbing nightshade (*Solanum dulcamara*).

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 is a Category II wetland with 7 Habitat Points (**Attachment B**). Category II wetlands with 7 Habitat Points require a standard 150-foot buffer plus 15-foot building setback within the urban area of King County. This buffer can typically be reduced to 110 feet if all the mitigation measures outlined in KCC 21A.24.325.C.6(2)b are implemented.

2.0 PROPOSED PROJECT

The proposed project consists of the development of a single-family residence on each of the three undeveloped parcels. Although the mitigation measures outlined in KCC 21A.24.325.C.6(2)b (below) will be implemented to reduce the buffer to 110 feet, there is still insufficient room outside the buffer to construct any of the residences and a Critical Areas Alteration Exception will be required for each lot.

Disturbance	Measures to minimize impacts	Proposed Project
Lights	,	All lights should be low wattage and directed down – not out into wetland. Timers and metal hoods should be used as appropriate. Directional lighting with narrow angles of illumination should be utilized.
Noise		No areas that will generate excessive noise are proposed in proximity to the wetland.
Toxic runoff	Route all new untreated runoff away from wetland while ensuring wetland is not dewatered. Establish covenants limiting use of pesticides within 150 feet of wetland. Apply integrated pest management.	generating surfaces should be allowed
Stormwater runoff	Retrofit stormwater detention and treatment for roads and existing adjacent development. Prevent channelized flow from lawns that directly enters the buffer. Use low impact intensity development techniques identified in the King County Surface Water Design Manual.	stormwater management plan has been
Change in water regime	lawns.	Project should be designed to treat stormwater runoff while maintaining hydrologic support to the wetland as required by King County.
Pets and human disturbance	Use privacy fencing or plant dense vegetation to delineate buffer edge and to discourage disturbance using vegetation appropriate for the ecoregion. Place wetland and its buffer in a separate tract or protect with a conservation easement.	along the buffer boundary to prevent
Dust	Use best management practices to control dust.	BMPS should be utilized to control dust.

3.0 WETLAND BUFFER IMPACTS

The proposed project consists of the development of each parcel with a single-family residence utilizing the Critical Areas Alteration Exception (CAAE) process. All three of the parcels are currently undeveloped and consist of mixed upland forest that was dominated by Douglas fir (*Pseudotsuga menziesii*), black cottonwood (*Populus trichocarpa*), vine maple (*Acer circinatum*), Indian plum (*Oemleria cerasiformis*), stinging nettle (*Urtica dioica*), and sword fern (*Polystichum munitum*). Although no direct critical area impacts would occur, buffer impacts are unavoidable.

Since the buffer on the site is gently sloped and undeveloped it does not currently provide a significant stormwater storage or filtration functional benefit to the off-site wetland. The primary function of the buffer appears to be as a wildlife habitat component of the overall open space associated with the wetland and surrounding undeveloped area. The buffer on the site also provides physical and visual screening to the wetland from the adjacent development.

PARCEL NUMBER	SITE ALTERATION AREA (S.F.)	BUFFER/BSBL IMPACT (S.F.)
375160-3419	4,159	2,729
375160-3417	4,159	2,695
375160-3415	4,159	2,265

4.0 WILDLIFE HABITAT ASSESSMENT

The Washington Department of Fish and Wildlife Priority Habitats and Species database (PHS) does not indicate the presence of any federal or state listed endangered, threatened, sensitive, or candidate species on or adjacent to the site, nor were any identified during the field investigations. In addition, no active breeding sites for species listed in KCC 21A.24.382.B through J were observed during the field investigations.

All existing significant trees located outside of the currently proposed clearing limits should be retained. Although I do not believe it necessary to create snags from any of the existing live healthy trees on the property, if any other trees on the site are deemed hazardous and must be removed for safety concerns, then it is my recommendation that a snag be created from that tree at the tallest appropriate point. Furthermore, any trees within the preserved portions of the site that naturally become snags should remain in place and not be removed unless they become a safety concern.

4.1 Wildlife Habitat Recommendations for Lighting

To minimize the project's potential to impact wildlife from light and glare the following measures should be implemented:

• Exterior lighting on the back of the residence should be on a timer that automatically shuts off within 15 minutes after use.

- Only low-wattage directional lighting with narrow angles of illumination for lighting should be utilized.
- Metal hoods should be added to all exterior lights to direct lighting down and not out from fixtures.

5.0 ALTERNATIVES ANALYSIS

The subject parcels are small (5,000 s.f. for -3415 and 4,800 s.f. for -3417 and -3419) and it is my understanding that you have designed the future moderately sized residences to minimize impacts and fit in with the surrounding neighborhood. It is also my understanding that a smaller structural footprint may not be economically feasible.

6.0 CRITICAL AREA ALTERATION EXCEPTION APPROVAL CRITERIA

Any approval of a CAAE must meet the criteria of KCC 21A.24.070.A.3:

a. there is no feasible alternative to the development proposal with less adverse impact on the critical area;

The proposed residences have been designed to avoid all direct impacts to critical areas and would be located close to 56th Ave. S. to minimize longer driveway impacts. The structures are moderately sized and it is my understanding they have been designed to match existing adjacent development.

b. the alteration is the minimum necessary to accommodate the development proposal;

The moderately sized residences would have very small yards and have been minimized to be below the maximum site alteration area threshold.

c. the approval does not require the modification of a critical area development standard established by this chapter, except as set forth in subsection A.2.i. of this section;

No critical area development standards will be modified by the proposal.

d. the development proposal does not pose an unreasonable threat to the public health, safety or welfare on or off the development proposal site and is consistent with the general purposes of this chapter and the public interest;

The proposed single-family residence is consistent with adjacent land uses and does not pose a threat to public health, safety, or welfare on or off the development site.

e. for dwelling units, no more than five thousand square feet or ten percent of the site, whichever is greater, may be disturbed by structures, building setbacks or other land alteration, including grading, utility installations and landscaping, but not including the area used for a driveway or for an on-site sewage disposal system;

Since the parcels are 5,000 s.f. or less in size the maximum site alteration area is 5,000 s.f. per lot. The site alteration area for each lot is 4,159 s.f. and is below the threshold requirement.

f. to the maximum extent practical, access is located to have the least adverse impact on the critical area and critical area buffer;

Access to the residences will be directly from 56th Ave. S. and the residences will be close to the roadway to minimize the length of the driveway.

g. the critical area is not used as a salmonid spawning area;

The impacted critical area buffer is not used as a salmonid spawning area.

7.0 PROPOSED MITIGATION

The existing wetland buffer on each of the parcels consists primarily of a native mixed forest with little on-site mitigation opportunity. Since there are no known mitigation banks that have a service area that includes the subject properties, it is anticipated that mitigation for the unavoidable buffer impacts associated with the new residences as part of the CAAE process will likely occur utilizing the King County Mitigation Reserves Program.

Once the site alteration area and buffer impact calculation has been approved, mitigation credits will be purchased.

If you have any questions regarding the critical areas study, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

John Altmann Ecologist

Attachments

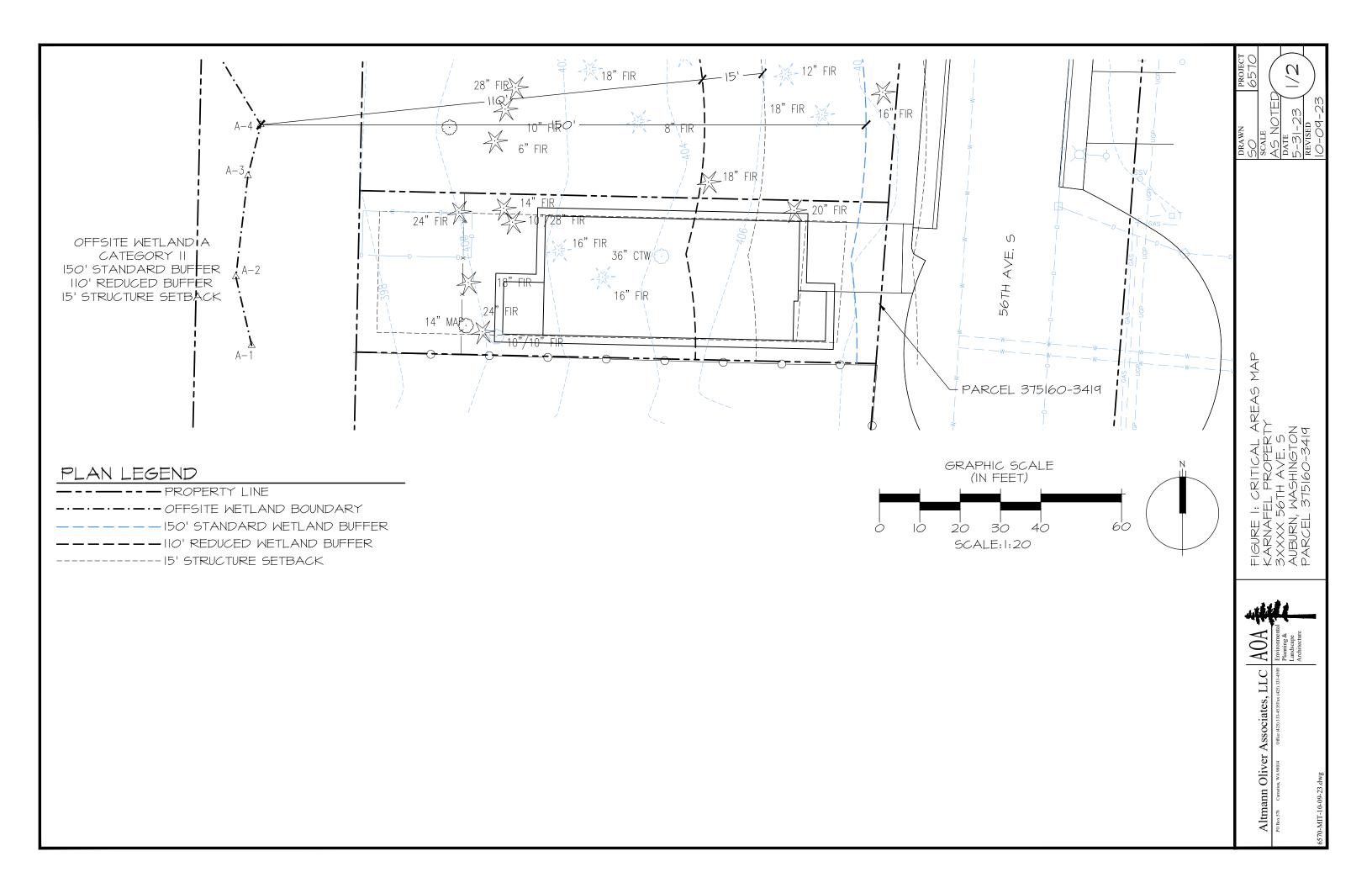
King County iMap 20015 3751 35609 375160JUDE 37516 33405 3751-33422 95 619 3751-03423 3751 35631 37516-3424 375 303425 3751603426 3751603465 3 3751603467,35 3**75**,1603430 37516 03419 King County, EagleView Technologies, Inc.

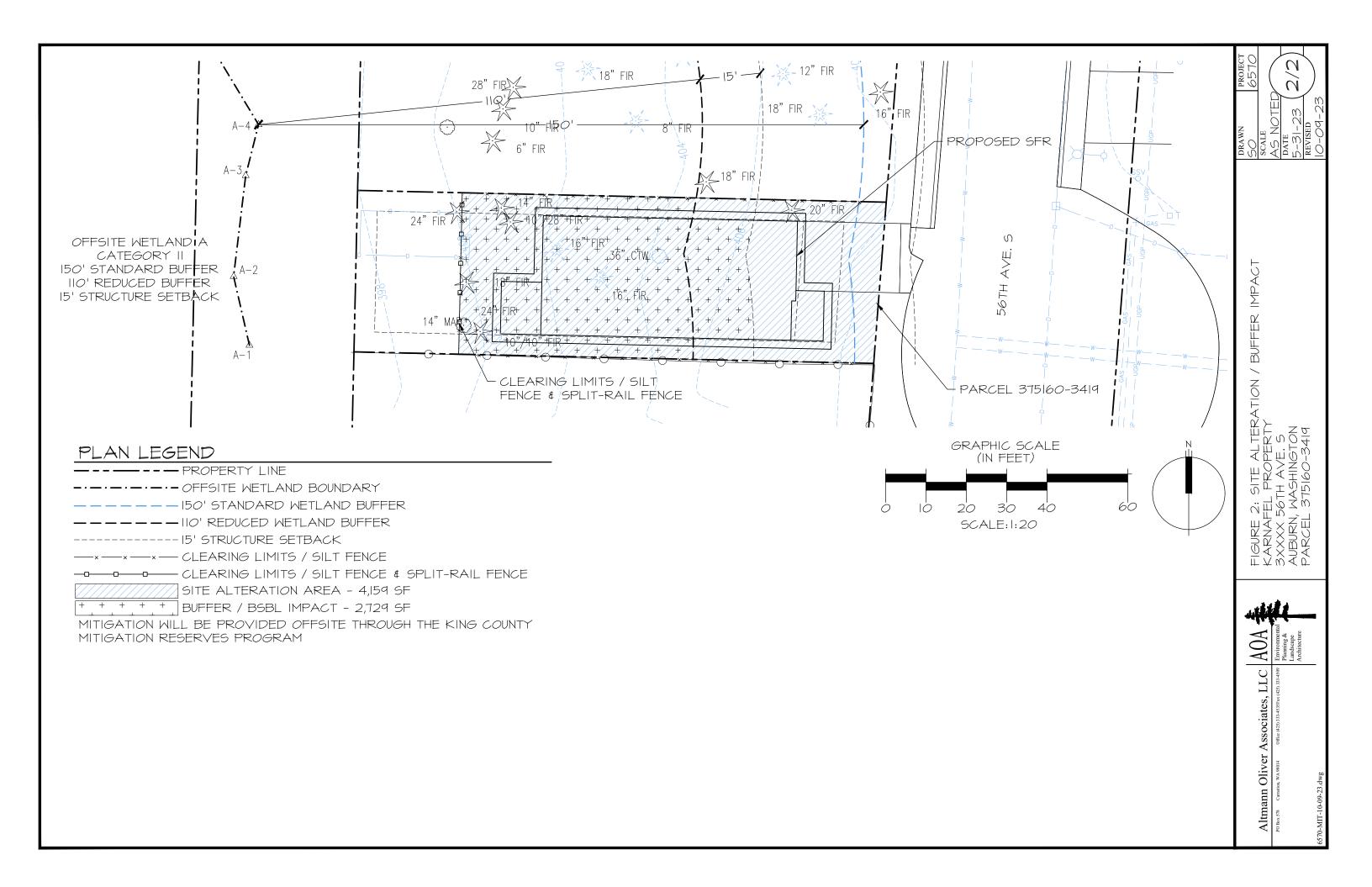
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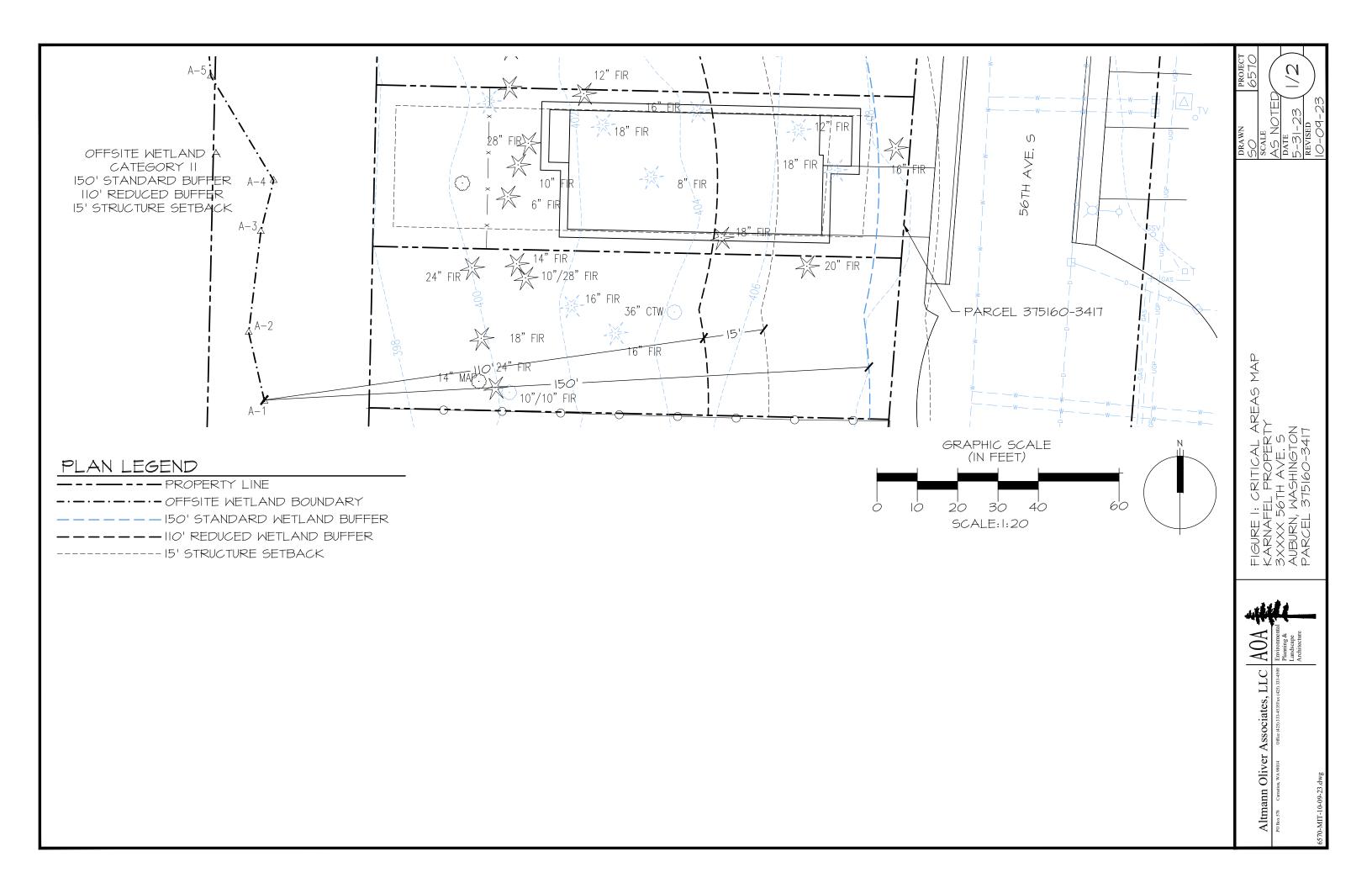
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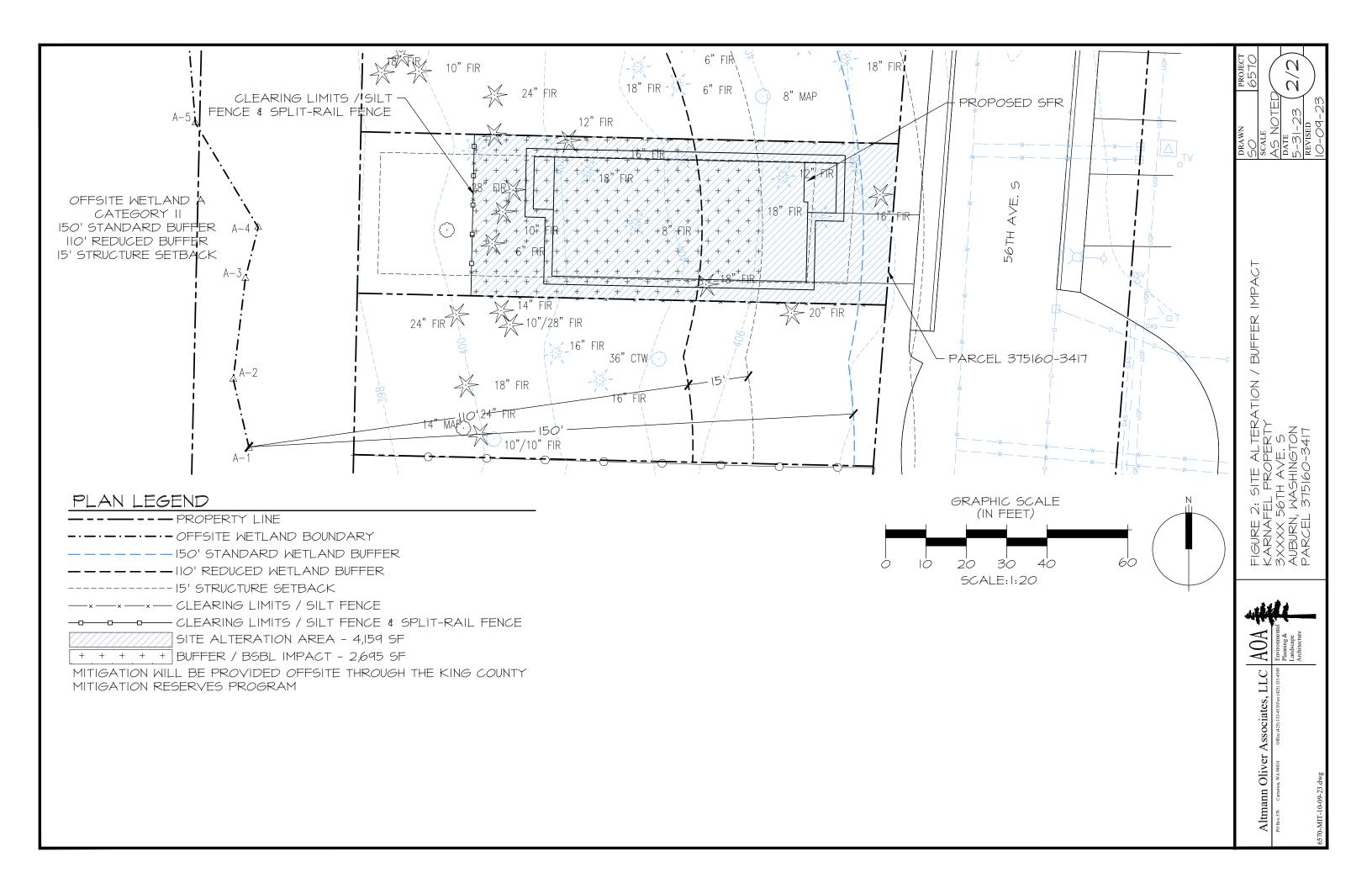


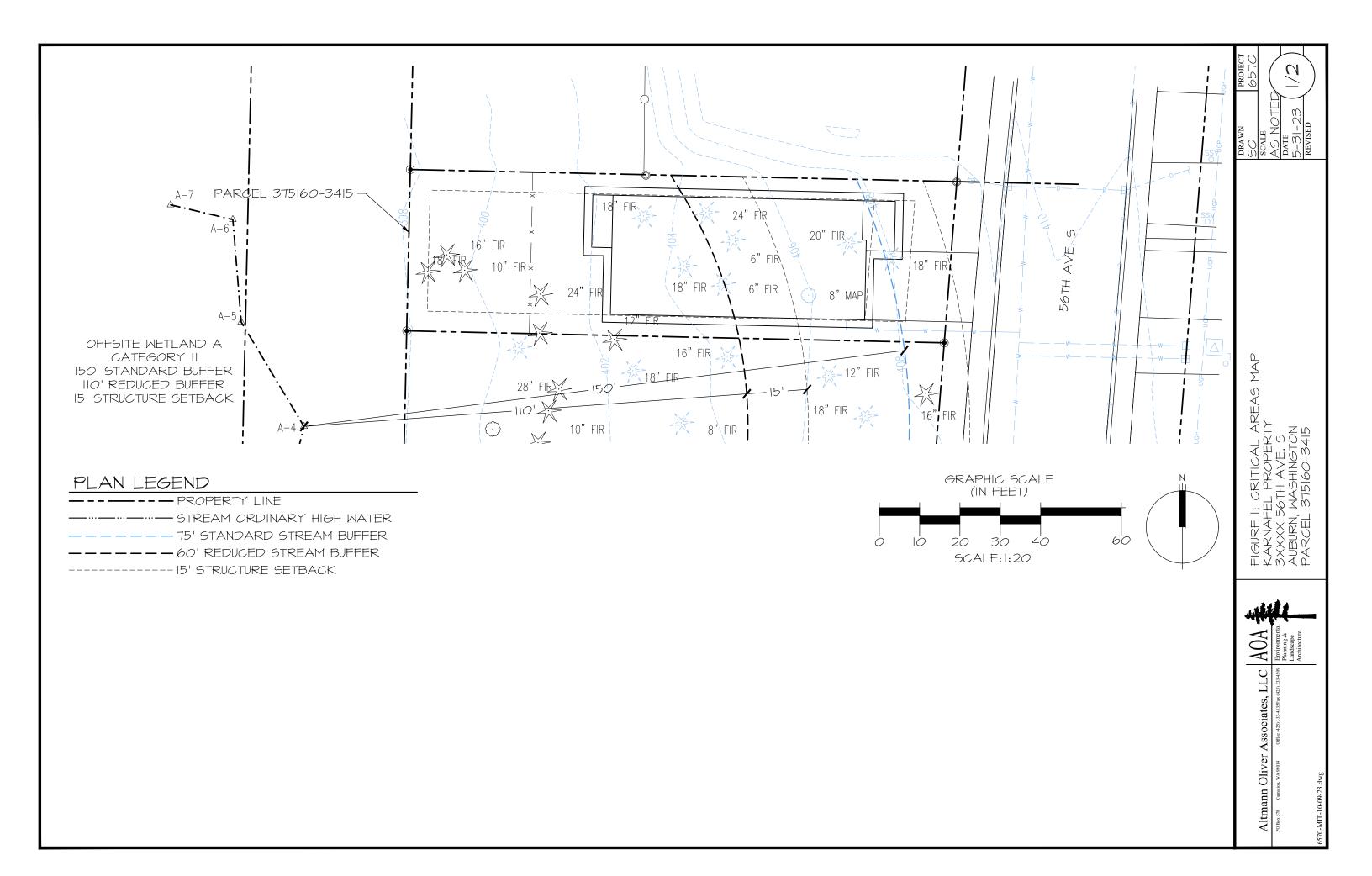


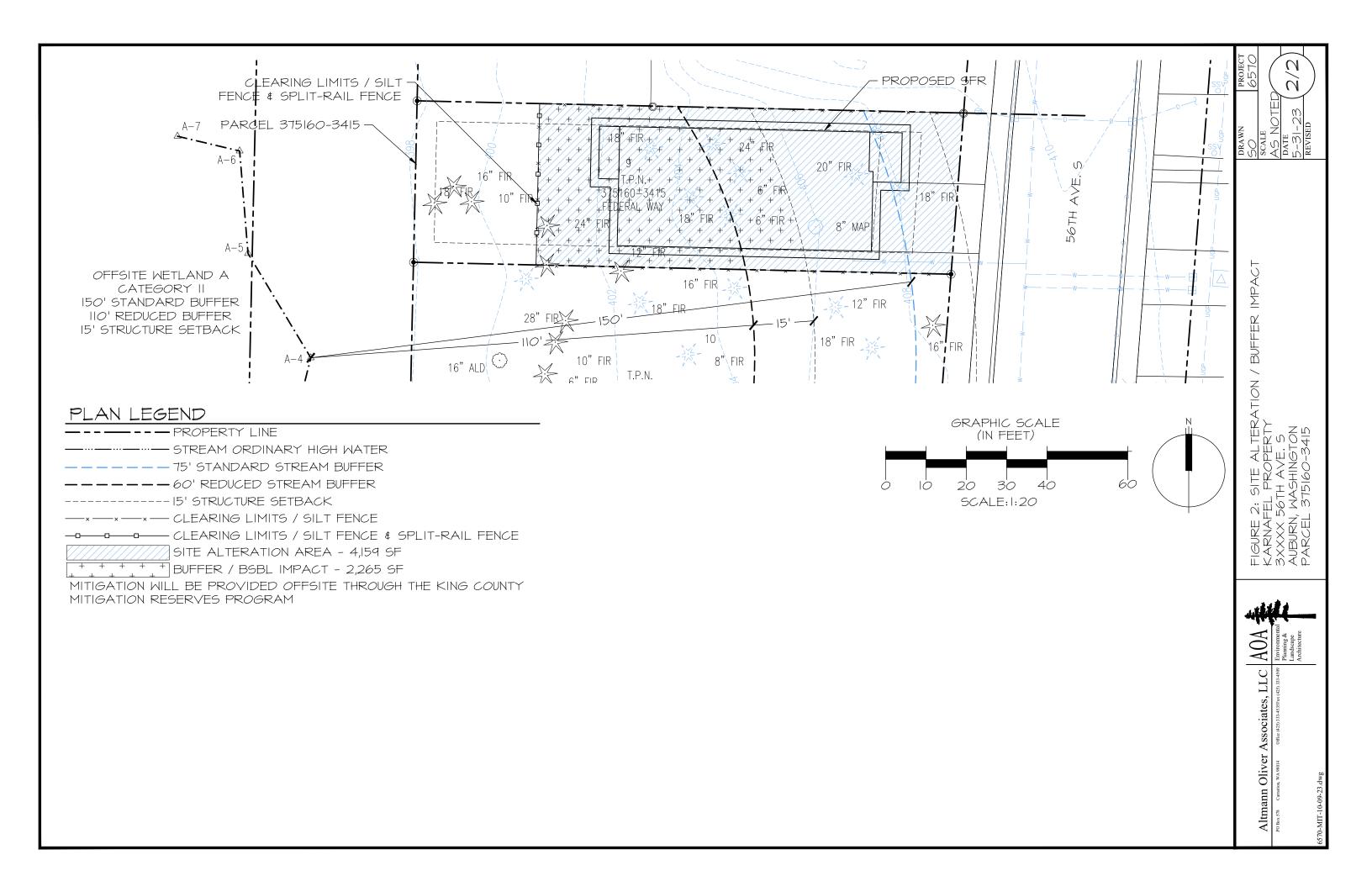












ATTACHMENT A DATA SHEETS

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

Project Site:	Parcel 375160-3419					City/Count	nty:	King Co	unty/		Samplin	g Date:	<u>7-2</u>	<u>0-21</u>	
Applicant/Owner:	<u>Karnafel</u>								State	e: <u>WA</u>	Samplin	g Point:	DP	<u>#1</u>	
Investigator(s):	John Altmann, Jason Panzera							Section	on, Tow	nship, Rang	ge: <u>S26</u>	, T21N, R4E	<u> </u>		
Landform (hillslope, te	rrace, etc.):			L	ocal	relief (conca	ave, o	convex, r	none):			Slo	pe (%):		_
Subregion (LRR):	<u>A</u>	Lat: <u>4</u>	7.2813	<u> </u>			L	ong: <u>-12</u>	22.2647	<u>5</u>		Datum:		_	
Soil Map Unit Name:	<u>AgB</u>									NWI class	sification		F, PEM , PUBI		<u>).</u>
Are climatic / hydrolog	ic conditions on the site typical fo	this time	of yea	r?	Ye	s 🛛	1	No 🗆] (If n	o, explain ir	n Remark	(s.)			
Are Vegetation ☐,	Soil □, or Hydrology	☐, sign	ificant	ly distur	bed?	Are "l	Norm	al Circun	nstance	s" present?		Yes	\boxtimes	No	
Are Vegetation ☐,	Soil □, or Hydrology	□, natu	ırally p	roblema	atic?	(If nee	eded	, explain	any ans	swers in Re	marks.)				
SUMMARY OF FIN	IDINGS – Attach site map s	nowing s	sampl	ling po	oint I	ocations,	tran	sects, i	import	ant featu	res, etc				
Hydrophytic Vegetation	n Present?	Yes	\boxtimes	No []										
Hydric Soil Present?		Yes	\boxtimes	No 🗆		s the Samp						Yes	\boxtimes	No	
Wetland Hydrology Pre	esent?			No 🗆	١,	within a We	etiano	17							
	0' off of A-4 into Wetland														
Remarks. Located i	0 on or A-4 into Wetland														
VEGETATION - Us	se scientific names of plant					T	1								
Tree Stratum (Plot size	e: <u>10'</u>)	Absolute % Cover	_	ominant <u>oecies?</u>		Indicator Status	Doi	minance	Test W	orksheet:					
1. Fraxinus latifolia		30	ye			FACW	Nur	mber of E	Dominar	nt Species					(4)
2			_				Tha	at Are OB	BL, FAC	W, or FAC:			_		(A)
3			_				Tot	al Numbe	er of Do	minant					(5)
4			_					ecies Acr					_		(B)
50% = <u>15,</u> 20% = <u>6</u>		<u>30</u>	=	Total Co	over		Per	cent of D	ominan	t Species					(4.5)
Sapling/Shrub Stratum	<u>n</u> (Plot size: <u>10'</u>)									W, or FAC:			_		(A/B)
1. Cornus sericea		<u>100</u>	<u>ye</u>	<u>es</u>		<u>FACW</u>	Pre	valence	Index v	worksheet:					
2			_						Total %	Cover of:		Multi	ply by:		
3.		·		<u>-</u>			ОВ	L species				x1 =			
4								CW spec				x2 =			
5								C species				x3 =			
50% = <u>50</u> , 20% = <u>20</u>		100	=	Total Co	over			CU speci				x4 =			
Herb Stratum (Plot siz	رم· ۱۵'۱)	100						L species				x5 =			
	.e. <u>10</u>)							·			(A)	X3 -	_		٥,
1			_	_			Col	umn Tota		· · · · · · · · · · · · · · · · · · ·	(A)		_	(I	3)
2			_	_		—				Prevalence		3/A =	-		
3			_				_		_	ation Indic					
4			_	_						t for Hydrop		getation			
5			_	_				2 - Do	minance	e Test is >5	0%				
6			_					3 - Pre	evalence	e Index is <	3.0 ¹				
7			_									rovide supp	orting		
8			_					dat	a in Rer	marks or on	a separa	ate sheet)			
9			_					5 - We	etland N	on-Vascula	r Plants ¹				
10			_					Proble	ematic H	ydrophytic '	Vegetation	on¹ (Explain)		
11			_												
50% =, 20% = _			= '	Total Co	over					soil and we disturbed or		drology mus	st		
Woody Vine Stratum ((Plot size: <u>10'</u>)						DC	present,	uilless c	ilstarbed or	problem	auc.			
1			_												
2.							Hyd	drophyti	С						
50% =, 20% =			=	— Total Co	over		_	getation		Ye	es	\boxtimes	No)	
% Bare Ground in Her				3.	٠.		Pre	sent?							
h	vy and Himalayan blackberry on l	na thus av	cludad	1											
Remarks:	vy ana i iiiiiaiayan biackbeny on i	og illus exi	oiuucu												

Project Site: Parcel 375160-3419

October Octo	Depth Matrix inches) Color (moist)	%	Color (m	oist) %		 Texture	e Remarks
yper C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.			Color (III	01St) 70	Type ¹ Loc ²		 :
Histosol (Ar) Ground Carlos Carlo	<u>0-20</u> <u>10 11\ 2/1</u>	100				<u>Olyan</u>	<u> </u>
Indicators: (Applicable to all LRRs, unless otherwise noted.)							
Indicators: (Applicable to all LRRs, unless otherwise noted.)				<u></u>			-
Histosol (Ar) Ground Carlos Carlo							<u> </u>
Indicators: (Applicable to all LRRs, unless otherwise noted.)							
Indicators: (Applicable to all LRRs, unless otherwise noted.)						<u> </u>	_
Indicators: (Applicable to all LRRs, unless otherwise noted.)							_
Histosof (A1)	ype: C= Concentration, D=Deple	tion, RM=l	Reduced Ma	trix, CS=Covered or Co	pated Sand Grains.	² Location: PL	=Pore Lining, M=Matrix
Histic Epipedon (A2)	dric Soil Indicators: (Applicab	le to all L	RRs, unless	otherwise noted.)		Indi	icators for Problematic Hydric Soils ³ :
Black Histic (A3)	Histosol (A1)			Sandy Redox (S5)			2 cm Muck (A10)
Hydrogen Sulfide (A4)							·
Depleted Below Dark Surface (A11)	. ,			-		-	
Redox Dark Surface (A12)	· ·	(0.4.4)				П	Other (Explain in Remarks)
Sandy Mucky Mineral (S1)	·	e (A11)					
Sandy Gleyed Matrix (S4)	_				•	³ Ind	licators of hydrophytic vegetation and
Secondary Indicators: Property Property				•		V	wetland hydrology must be present,
Post Present				Tredox Depressions	(1 0)	u	uniess disturbed or problematic.
Propertical Content							
### Aprology Indicators: Mary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)	·				Hydric Sc	ils Present?	Yes ⊠ No [
Surface Water (A1)	· · · · · · · · · · · · · · · · · · ·				1,3,0,0		
Surface Water (A1)	emarks: YDROLOGY				1,3,		
High Water Table (A2)	YDROLOGY etland Hydrology Indicators:	e required:	check all th	at apply)		Secon	ndary Indicators (2 or more required)
Saturation (A3)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of on	e required					. ,
Water Marks (B1)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one) Surface Water (A1)	e required;		Water-Stained Leav	es (B9)		Water-Stained Leaves (B9)
Drift Deposits (B3)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	e required;		Water-Stained Leav (except MLRA 1, 2,	es (B9)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Algal Mat or Crust (B4)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	e required;		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11)	es (B9) 4A, and 4B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Iron Deposits (B5)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	e required;		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate	es (B9) 4A, and 4B) es (B13)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Soil Cracks (B6)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	e required;		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide On	es (B9) 4A, and 4B) es (B13) dor (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)
Inundation Visible on Aerial Imagery (B7)	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	e required;		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Oc Oxidized Rhizosphe	es (B9) 4A, and 4B) es (B13) dor (C1) eres along Living Roots	- (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)
Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes No Depth (inches): atter Table Present? Yes No Depth (inches): eturation Present? Yes No Depth (inches): Surface Wetland Hydrology Present? Yes No	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e required;		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Or Oxidized Rhizosphe Presence of Reduce	es (B9) 4A, and 4B) es (B13) dor (C1) eres along Living Roots ed Iron (C4)	(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)
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escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one) 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 Sparsely Vegetated Concavel (B4) eld Observations: urface Water Present? Yes ater Table Present?	Imagery (E e Surface		Water-Stained Leav (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Or Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Stunted or Stresses Other (Explain in Re	es (B9) 4A, and 4B) es (B13) dor (C1) eres along Living Roots ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	(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 DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Parcel 375160-3419				City/Coun	ty: King County/	Sampling [Date:	<u>7-20-</u>	<u>-21</u>	
Applicant/Owner: <u>Karnafel</u>					State: \(\frac{1}{2}\)	<u>NA</u> Sampling F	oint:	DP#2	2	
Investigator(s): <u>John Altmann, Jason Panzera</u>					Section, Townshi	p, Range: <u>S26, T2</u>	21N, R4E			
Landform (hillslope, terrace, etc.):		1	Local	relief (conc	ave, convex, none):		Slope	: (%):		_
Subregion (LRR): A	Lat: <u>47.2</u>	<u> 2813</u>			Long: <u>-122.26475</u>		Datum: _			
Soil Map Unit Name: AqB					N'	WI classification:	PEM1F, PSSC, F		/SSC	<u> </u>
Are climatic / hydrologic conditions on the site typical for	r this time of	year?	Yes	es 🛛	No ☐ (If no, e	xplain in Remarks.)				
Are Vegetation ☐, Soil ☐, or Hydrology	☐, signific	antly distu	ırbed?	? Are "	Normal Circumstances" p	resent?	Yes	\boxtimes	No	
Are Vegetation , Soil , or Hydrology	☐, natura	lly problem	natic?	(If ne	eded, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS – Attach site map s	howing saı	mpling po	oint I	locations,	transects, important	features, etc.				
Hydrophytic Vegetation Present?	Yes 🗆	No 🏻	\boxtimes $ $		1.14					
Hydric Soil Present?	Yes 🗆	No 🏻		ls the Samp within a We			Yes		No	\boxtimes
Wetland Hydrology Present?	Yes 🗆	No 🏻	\boxtimes							
Remarks: Located 10' off of A-4 into Upland										
VEGETATION – Use scientific names of plant										
Tree Stratum (Plot size: 10')	Absolute <u>% Cover</u>	Dominan Species?		Indicator Status	Dominance Test Work	sheet:				
1. Thuja plicata	50	<u>yes</u>	_	FAC	Number of Dominant Sp	pecies	0			(4)
2. Acer circinatum	<u>50</u>	<u>yes</u>		FAC	That Are OBL, FACW, o		<u>2</u>			(A)
3					Total Number of Domina	ant	E			(D)
4					Species Across All Stra	ta:	<u>5</u>			(B)
50% = <u>50</u> , 20% = <u>20</u>	<u>100</u>	= Total C	Cover		Percent of Dominant Sp		<u>40</u>			(A/B)
Sapling/Shrub Stratum (Plot size: 10')					That Are OBL, FACW, o	or FAC:	40			(٨,٥)
1. Corylus cornuta	<u>15</u>	<u>yes</u>	•	<u>FACU</u>	Prevalence Index worl	sheet:				
2. <u>Oemleria cerasiformis</u>	<u>15</u>	<u>yes</u>		<u>FACU</u>	Total % Co	ver of:	Multiply	<u>y by:</u>		
3					OBL species		x1 =		_	
4					FACW species		x2 =		_	
5					FAC species		x3 =		_	
50% = <u>15,</u> 20% = <u>6</u>	<u>30</u>	= Total C	Cover		FACU species		x4 =		_	
Herb Stratum (Plot size: 10')					UPL species		x5 =		_	
1. Polystichum munitum	<u>40</u>	<u>yes</u>	•	<u>FACU</u>	Column Totals:	(A)			(E	3)
2					Prev	alence Index = B/A	. =			
3					Hydrophytic Vegetation	n Indicators:				
4					☐ 1 – Rapid Test for	Hydrophytic Veget	ation			
5					☐ 2 - Dominance Te	st is >50%				
6					☐ 3 - Prevalence Inc	lex is <u><</u> 3.0¹				
7						Adaptations ¹ (Prov		ting		
8					data in Remark	s or on a separate	sheet)			
9					5 - Wetland Non-\	/ascular Plants ¹				
10					☐ Problematic Hydro	ophytic Vegetation ¹	(Explain)			
11					11 11 1 61 11 11					
50% = <u>20,</u> 20% = <u>8</u>	<u>40</u>	= Total C	Cover		¹Indicators of hydric soil be present, unless distu					
Woody Vine Stratum (Plot size: 10')						•				
1										
2					Hydrophytic Vegetation	Yes [No		\boxtimes
50% =, 20% =		= Total C	Cover		Present?	103	_			
% Bare Ground in Herb Stratum										
Remarks:										

Project Site: Parcel 375160-3419

nches) Color (moist)	0/	Color (m	Redox Fea			Remarks
0-15 Color (moist) 0-15 10 YR 3/3	<u>100</u>	Color (m	oist) %	Type ¹ Loc ²	Texture silt loar	_
<u>0-15</u> <u>10 11(3/5</u>	100				<u>siit ioai</u>	<u> </u>
						-
			<u> </u>			
						<u> </u>
		-				<u> </u>
pe: C= Concentration, D=Deple	etion, RM=	Reduced Ma	trix, CS=Covered or Co	oated Sand Grains.	² Location: PL=	Pore Lining, M=Matrix
dric Soil Indicators: (Applical	le to all L	RRs, unless	otherwise noted.)		Indic	cators for Problematic Hydric Soils ³ :
Histosol (A1)			Sandy Redox (S5)			2 cm Muck (A10)
Histic Epipedon (A2)			Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic (A3)			Loamy Mucky Mine	eral (F1) (except MLRA 1) 🗆	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)			Loamy Gleyed Matr	rix (F2)		Other (Explain in Remarks)
Depleted Below Dark Surface	e (A11)		Depleted Matrix (F3	3)		
Thick Dark Surface (A12)			Redox Dark Surface	e (F6)	2	
Sandy Mucky Mineral (S1)			Depleted Dark Surf	• •		cators of hydrophytic vegetation and vetland hydrology must be present,
Sandy Gleyed Matrix (S4)			Redox Depressions	s (F8)		nless disturbed or problematic.
strictive Layer (if present):						
De:						<u>_</u>
pth (inches):				Hydric Soils	s Present?	Yes 🗌 No
<u> </u>	atures			1.19		
emarks: no redoxomorphic fe	atures			1.17*****		
rmarks: no redoxomorphic fe				1.75		
marks: no redoxomorphic fe /DROLOGY etland Hydrology Indicators: mary Indicators (minimum of or					Secon	ndary Indicators (2 or more required)
TDROLOGY etland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1)		; check all th	Water-Stained Leav	ves (B9)	Secon	ndary Indicators (2 or more required) Water-Stained Leaves (B9)
TDROLOGY etland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2)			Water-Stained Leav	ves (B9)	Secon	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Marks: no redoxomorphic fe			Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11)	ves (B9)	Secon	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
TDROLOGY Itland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)			Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate	ves (B9) 2, 4A , and 4B) es (B13)	Secon (ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
"DROLOGY Itland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)			Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O	ves (B9) 4, 4A , and 4B) es (B13) odor (C1)	Secon	ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Marks: no redoxomorphic feet and Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)			Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	ves (B9) 4, 4A , and 4B) es (B13) dor (C1) eres along Living Roots (Secon	ndary Indicators (2 or more required) 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)
POROLOGY Setland Hydrology Indicators: mary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		0	Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	ves (B9) J. 4A, and 4B) es (B13) odor (C1) eres along Living Roots (Ged Iron (C4)	Secon	ndary Indicators (2 or more required) 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)
POROLOGY Setland Hydrology Indicators: mary Indicators (minimum of or 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)		0	Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct	ves (B9) ves (B13) dor (C1) eres along Living Roots (6) ed Iron (C4) tion in Tilled Soils (C6)	Secon () () () () () () () () () () () () ()	Mary Indicators (2 or more required) 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)
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Marks: no redoxomorphic fee Partland Hydrology Indicators: mary Indicators (minimum of or 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 Sparsely Vegetated Concaveled Observations: rface Water Present?	e required		Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Reduct Depth (inches):	ves (B9) v. 4A, and 4B) es (B13) odor (C1) eres along Living Roots (Ce) ed Iron (C4) cition in Tilled Soils (C6) s Plants (D1) (LRR A) emarks)	Secon	ndary Indicators (2 or more required) 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)
YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of or 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 Sparsely Vegetated Concaveled Observations:	e required		Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Re	ves (B9) 4, 4A, and 4B) es (B13) dor (C1) eres along Living Roots (Ce) ed Iron (C4) tion in Tilled Soils (C6) s Plants (D1) (LRR A) emarks)	Secon	ndary Indicators (2 or more required) 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)
PROLOGY Stland Hydrology Indicators: mary Indicators (minimum of or 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 Sparsely Vegetated Concaveld Observations: rface Water Present? Yesturation Present?	e required Imagery (E e Surface		Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Red Depth (inches): Depth (inches):	ves (B9) d, 4A, and 4B) es (B13) odor (C1) eres along Living Roots (Ced Iron (C4) dion in Tilled Soils (C6) s Plants (D1) (LRR A) emarks)	Secon () () () () () () () () () () () () ()	ndary Indicators (2 or more required) 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)
Marks: no redoxomorphic fee Paramarks: no redoxomorphic fee Paramary Indicators (minimum of or 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 Sparsely Vegetated Concavel (B4) Paramary Surface Water Present? Yester Table Present?	e required Imagery (E e Surface		Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Red Depth (inches): Depth (inches):	ves (B9) d, 4A, and 4B) es (B13) odor (C1) eres along Living Roots (Ced Iron (C4) dion in Tilled Soils (C6) s Plants (D1) (LRR A) emarks)	Secon () () () () () () () () () () () () ()	ndary Indicators (2 or more required) 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)

ATTACHMENT B WETLAND RATING

RATING SUMMARY – Western Washington

Name of wetland (or ID #):	Parcel 375160-3419		Date of site visit:	7/20/2021
Rated by Altmann	Traine	ed by Ecology? ☑ Yes ☐ No	Date of training	03/08 & 03/15
HGM Class used for rating	Depressional & Flats	Wetland has multip	ole HGM classes? ☐	Yes ☑No
	ot complete with out the fig of base aerial photo/map Kir		be combined).	
OVERALL WETLAND CA	ATEGORY II (ba	sed on functions ⊡or specia	al characteristics □)	1
1. Category of wetland	l based on FUNCTIONS			
	Category I - Total score = 2	3 - 27	Score for each	
X	Category II - Total score =	20 - 22	function based	
	Category III - Total score =	16 - 19	on three	
	Category IV - Total score =		ratings	

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List app	ropriate rating	(H, M, L)	
Site Potential	M	M	Н	
Landscape Potential	Н	Н	L	
Value	Н	M	Н	Total
Score Based on Ratings	8	7	7	22

Score for each function based on three ratings (order of ratings is not important) 9 = H, H, H 8 = H, H, M 7 = H, H, L 7 = H, M, M 6 = H, M, L 6 = M, M, M 5 = H, L, L 5 = M, M, L 4 = M, L, L 3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	Х

DEPRESSIONAL AND FLATS WETLA	ANDS		
Water Quality Functions - Indicators that the site functions to in	nprove 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).	poi	ints = 3	
Wetland has an intermittently flowing stream or ditch, OR highly			
constricted permanently flowing outlet.	poi	ints = 2	2
☐ Wetland has an unconstricted, or slightly constricted, surface outlet			
that is permanently flowing	poir	nts = 1	
☐ Wetland is a flat depression (QUESTION 7 on key), whose outlet is	•		
a permanently flowing ditch.	poir	nts = 1	
D 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic	., .		4
(use NRCS definitions).		No = 0	
D 1.3. <u>Characteristics and distribution of persistent plants</u> (Emergent, Scrub-sł Forested Cowardin classes):	rub, and/or		
Wetland has persistent, ungrazed, plants > 95% of area	poi	ints = 5	
Wetland has persistent, ungrazed, plants > ½ of area	poi	ints = 3	3
Wetland has persistent, ungrazed plants > ¹ / ₁₀ of area	poi	ints = 1	
Wetland has persistent, ungrazed plants < 1/ ₁₀ of area	poi	ints = 0	
D 1.4. Characteristics of seasonal ponding or inundation:	·		
This is the area that is ponded for at least 2 months. See description	in manual.		
Area seasonally ponded is > ½ total area of wetland		ints = 4	2
Area seasonally ponded is > ½ total area of wetland		ints = 2	
Area seasonally ponded is < ½ total area of wetland	•	ints = 0	
Total for D 1 Add the points			11
Rating of Site Potential If score is: 12 - 16 = H			the first page
D 2.0. Does the landscape have the potential to support the water quality funct	ion of the site	e?	
D 2.1. Does the wetland unit receive stormwater discharges?	Yes = 1		
1D 2.1. Does the wettand unit receive stormwater discharges?	163 – 1	No = 0	1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that	163 - 1	No = 0	
		No = 0 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		
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that	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? D 2.3. Are there septic systems within 250 ft of the wetland?	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? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are	Yes = 1 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? D 2.3. Are there septic systems within 250 ft of the wetland? 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?	Yes = 1 Yes = 1 Yes = 1	No = 0 No = 0 No = 0	1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source	Yes = 1 Yes = 1 Yes = 1 in the boxes	No = 0 No = 0 No = 0	1 1 0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r	No = 0 No = 0 No = 0	1 1 0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H □ 1 or 2 = M □ 0 = L	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r	No = 0 No = 0 No = 0	1 0 3 the first page
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L D 3.0. Is the water quality improvement provided by the site valuable to society	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r	No = 0 No = 0 No = 0	1 1 0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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,	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1	No = 0 No = 0 No = 0 Sabove rating on	1 0 3 the first page
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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? D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the stream of	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1 he 303(d) list	No = 0 No = 0 No = 0 Sabove rating on	1 0 3 the first page
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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? D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the D 3.3. Has the site been identified in a watershed or local plan as important	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1 he 303(d) list	No = 0 No = 0 No = 0 above rating on No = 0	1 0 3 the first page 0 1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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? D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 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	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1 he 303(d) list Yes = 1	No = 0 No = 0 Sabove rating on No = 0 Provided the sabove rating on the sabove rating of the sabove rating on the sabove rating of the sabove rating rating of the sabove rating	1 0 3 the first page
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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? D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on to 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 = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1 he 303(d) list Yes = 1 Yes = 2	No = 0 No = 0 No = 0 s above rating on $No = 0$ $R = 0$ $R = 0$ No = 0 No = 0	1 0 3 the first page 0 1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? D 2.3. Are there septic systems within 250 ft of the wetland? D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1 - D 2.3? Source Total for D 2 Add the points Rating of Landscape Potential If score is: ☑ 3 or 4 = H ☐ 1 or 2 = M ☐ 0 = L 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? D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the company of the passin in 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	Yes = 1 Yes = 1 Yes = 1 in the boxes Record the r Yes = 1 he 303(d) list Yes = 1 Yes = 2 in the boxes	No = 0 No = 0 Sabove rating on No = 0 ? No = 0 ? No = 0 Sabove of the content of	1 0 3 the first page 0 1

Wetland name or number A	
DEPRESSIONAL AND FLATS WETLANDS	
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degr	adation
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) points = 4	
Wetland has an intermittently flowing stream or ditch, OR highly	
constricted permanently flowing outlet points = 2	2
Wetland is a flat depression (QUESTION 7 on key), whose outlet is	
a permanently flowing ditch points = 1	
Wetland has an unconstricted, or slightly constricted, surface outlet	
that is permanently flowing points = 0 D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of	
the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the	
deepest part.	
Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7	
Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 5	3
☐ Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3	Ü
☐ The wetland is a "headwater" wetland points = 3	
Wetland is flat but has small depressions on the surface that trap water points = 1	
Marks of ponding less than 0.5 ft (6 in) points = 0	
D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of	
upstream basin contributing surface water to the wetland to the area of the wetland unit itself.	
\Box The area of the basin is less than 10 times the area of the unit points = 5	_
The area of the basin is 10 to 100 times the area of the unit points = 3	5
The area of the basin is more than 100 times the area of the unit points = 0	
☐ Entire wetland is in the Flats class points = 5	
Total for D 4 Add the points in the boxes above	10
	-
Rating of Site Potential If score is: 12 - 16 = H	
Rating of Site Potential If score is: 12 - 16 = H	
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □ 5.0. Does the landscape have the potential to support hydrologic function of the site?	
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □ 5.0. Does the landscape have the potential to support hydrologic function of the site?	the first page
Rating of Site Potential If score is: ☐12 - 16 = H ☐ 6 - 11 = M ☐ 0 - 5 = L Record the rating on ☐ 5.0. Does the landscape have the potential to support hydrologic function of the site? D 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 ☐ 5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0	the first page
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □ 5.0. Does the landscape have the potential to support hydrologic function of the site? □ 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □ 5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □ 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human	the first page
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □5.0. Does the landscape have the potential to support hydrologic function of the site? □5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □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.)?	the first page
Rating of Site Potential If score is: ☐12 - 16 = H ☐6 - 11 = M ☐0 - 5 = L Record the rating on ☐5.0. Does the landscape have the potential to support hydrologic function of the site? D 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 D 5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 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	the first page 1 1
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □5.0. Does the landscape have the potential to support hydrologic function of the site? □5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □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.)?	the first page 1 1
Rating of Site Potential If score is: ☐12 - 16 = H ☐6 - 11 = M ☐0 - 5 = L Record the rating on ☐5.0. Does the landscape have the potential to support hydrologic function of the site? D 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 D 5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 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	the first page 1 1 1 3
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □5.0. Does the landscape have the potential to support hydrologic function of the site? □5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □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 □5.3. Add the points in the boxes above	the first page 1 1 1 3
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on □5.0. Does the landscape have the potential to support hydrologic function of the site? □5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □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 □7 Total for □5 Add the points in the boxes above Rating of Landscape Potential If score is: □3 = H □1 or 2 = M □0 = L Record the rating on	the first page 1 1 1 3
Rating of Site Potential If score is: □12 - 16 = H □6 - 11 = M □0 - 5 = L Record the rating on D 5.0. Does the landscape have the potential to support hydrologic function of the site? □ 5.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0 □ 5.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0 □ 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 Total for □ 5 Add the points in the boxes above Rating of Landscape Potential If score is: □3 = H □1 or 2 = M □0 = L Record the rating on □6.0. Are the hydrologic functions provided by the site valuable to society? □ 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	the first page 1 1 1 3
Rating of Site Potential If score is:	the first page 1 1 1 3
Rating of Site Potential If score is: \(\textstyle 12 - 16 = H \) \(\textstyle 6 - 11 = M \) \(\textstyle 0 - 5 = L \) \(Record the rating on \) \(D \textstyle 5.0. \) Does the landscape have the potential to support hydrologic function of the site? \(D \textstyle 5.1. \) Does the wetland unit receive stormwater discharges? \(Yes = 1 \) \(No = 0 \) \(D \textstyle 5.2. \] Is > 10% of the area within 150 ft of the wetland in land uses that generate excess runoff? \(Yes = 1 \) \(No = 0 \) \(D \textstyle 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.)? \(Yes = 1 \) \(No = 0 \) \(Yes = 1 \) \(No = 0 \) \(Yes = 1 \) \(No = 0 \) \(Total for D \textstyle 5 \) \(Add the points in the boxes above \) \(Rating of Landscape Potential \) If score is: \(\substyle 3 = H \) \(\textstyle 1 \) or \(2 = M \) \(\textstyle 0 = L \) \(Record the rating on \) \(D \textstyle 6.0. \) Are the hydrologic functions provided by the site valuable to society? \(D \textstyle 6.1. \) 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. \(The wetland captures surface water that would otherwise flow down-gradient into areas \)	the first page 1 1 1 3
Rating of Site Potential If score is:	the first page 1 1 1 3
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Wetland name or number A	
These questions apply to wetlands of all HGM classes.	
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	
H 1.0. Does the site have the potential to provide habitat?	
H 1.1. Structure of plant community: <i>Indicators are Cowardin classes and strata within the Forested class</i> . Check the Cowardin plant classes in the wetland. <i>Up to 10 patches may be combined for each class to meet the threshold of</i> ½ <i>ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked.</i>	
 ✓ Aquatic bed ✓ Emergent ✓ Scrub-shrub (areas where shrubs have > 30% cover) ✓ Forested (areas where trees have > 30% cover) ✓ I structures: 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 	4
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).	
 ✓ Permanently flooded or inundated ✓ Seasonally flooded or inundated ✓ Scasonally flooded or inundated ✓ Occasionally flooded or inundated ✓ Saturated only ✓ Permanently flowing stream or river in, or adjacent to, the wetland ✓ Seasonally flowing stream in, or adjacent to, the wetland ✓ Lake Fringe wetland 	3
☐ Freshwater tidal wetland 2 points	
H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft ² . Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle If you counted: > 19 species points = 2 5 - 19 species points = 1 < 5 species points = 0	2
H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. None = 0 points Low = 1 point Moderate = 2 points	3
All three diagrams in this row are HIGH = 3 points	

Wetland name or number A	
H 1.5. Special habitat features:	
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	4
least 33 ft (10 m)	4
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
(> 30 degree slope) OR signs of recent beaver activity are present (<i>cut shrubs or trees</i>	
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)	4.0
Total for H 1 Add the points in the boxes above	16
Rating of Site Potential If Score is: 15 - 18 = H 7 - 14 = M 0 - 6 = L Record the rating on	the first page
U.S.O. Dono the lands can be use the nativities as unnext the habitest figuration of the site?	
H 2.0. Does the landscape have the potential to support the habitat function of the site?	
H 2.1 Accessible habitat (include <i>only habitat that directly abuts wetland unit</i>). Calculate:	
1.4 % undisturbed habitat + (1.5 % moderate & low intensity land uses / 2) = 2.15%	
If total accessible habitat is:	0
$> \frac{1}{3}$ (33.3%) of 1 km Polygon points = 3	
20 - 33% of 1 km Polygon points = 2	
10 - 19% of 1 km Polygon points = 1	
< 10 % of 1 km Polygon points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	
Calculate:	
22.3 % undisturbed habitat + (9.1 % moderate & low intensity land uses / 2) = 26.85%	
	•
Undisturbed habitat > 50% of Polygon points = 3	2
Undisturbed habitat 10 - 50% and in 1-3 patches points = 2	
Undisturbed habitat 10 - 50% and > 3 patches points = 1	
·	
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)	-2
≤ 50% of 1km Polygon is high intensity points = 0	
Total for H 2 Add the points in the boxes above	0
Rating of Landscape Potential If Score is: 4 - 6 = H 1 - 3 = M <a> < 1 = L Record the rating on	the first 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: points = 2	
☑ 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	2
☐ 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) with in 100m points = 1	
Site does not meet any of the criteria above points = 0 Rating of Value If Score is: \bigcirc 2 = H \bigcirc 1 = M \bigcirc 0 = L Record the rating on	Han firmt
	THE TIPET HOME

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

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.

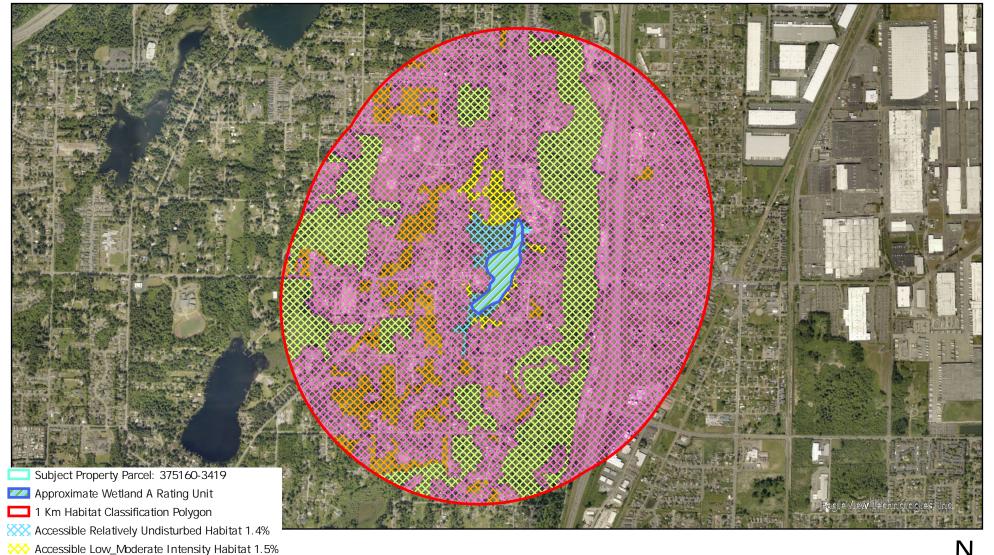
PO Box 578 Carnation, WA 98014 Office (425) 333-4535 Fax (425) 333-4509

Environmental Planning & Landscape Architecture

King County Parcel 375160-3419

Figure A

AOA - 6570





Relatively Undisturbed Habitat 20.9%

Low_Moderate Intensity Habitat 7.6%

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Fax (425) 333-450

Environmental
Planning &
Landscape
Architecture

King County Parcel 375160-3419

Figure B

AOA - 6570





Approximate Wetland A Rating Unit

150' Pollution Generating Surfaces

Pollution Generating Surfaces 27.1%

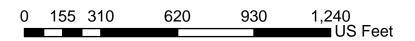
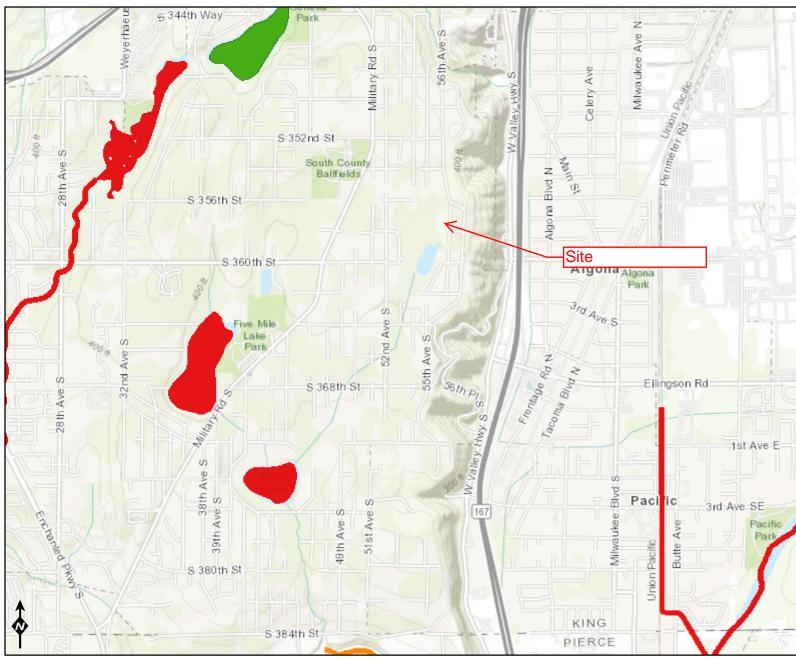




Figure C



Assessed Water/Sediment

Water

Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

Category 5 - 303d

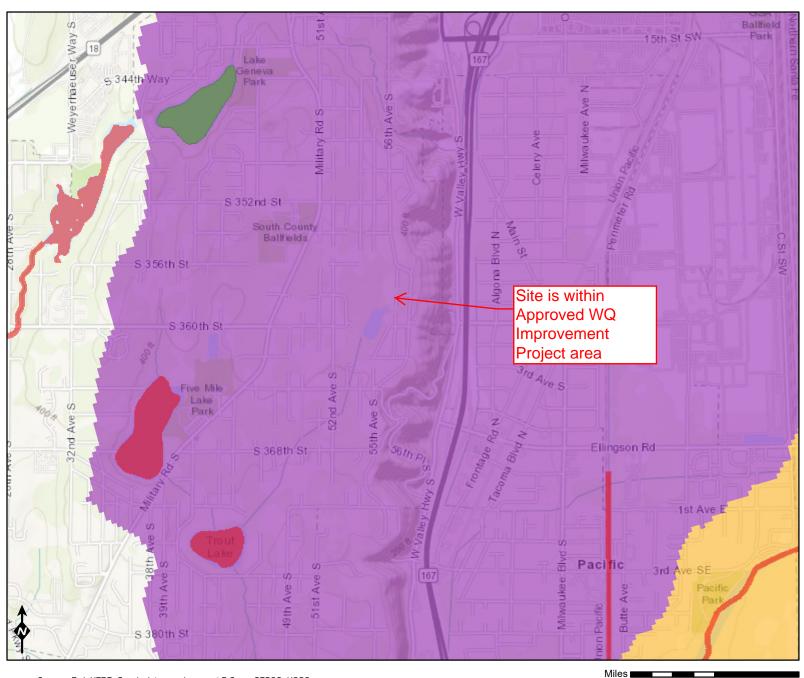
ZZZZ Category 4C

ZZZZ Category 4B

ZZZZ Category 4A

ZZZ Category 2

Figure D



Assessed Water/Sediment

Water

Category 5 - 303d

Category 4C

Category 4B

Category 4A

Category 2

Category 1

Sediment

Category 5 - 303d

ZZZZ Category 4C

Category 4B

ZZZZ Category 4A

Category 2

ZZZZ Category 1

WQ Improvement Projects

Approved

In Development

0.25

0.5