Federal Way Link Extension

Draft Environmental Impact Statement

ECOSYSTEMS TECHNICAL REPORT

Appendix G2







Federal Way Link Extension

Ecosystems Technical Report

Prepared for: Sound Transit

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Wetland Delineation Methodology

Wetlands are defined as areas saturated or inundated by surface water or groundwater at a frequency and duration sufficient to support, and which under normal circumstances do support, a prevalence of vegetation adapted for life in saturated soil conditions. The methods used to delineate the onsite wetlands conform to methods described in the *Washington State Wetlands Identification and Delineation Manual* (Washington State Department of Ecology [Ecology], 1997), the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual (USACE, 1987), and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region* (USACE, 2010). To be considered a wetland, an area must have hydrophytic vegetation, hydric soils, and wetland hydrology. Sound Transit collected data on these parameters in areas representative of typical site conditions. Staff collected additional data in associated uplands, as needed, to confirm wetland and stream boundaries. Wetland boundaries and wetland data plot locations in the study area were marked with sequentially numbered flagging. All delineated wetlands were instrument-surveyed and mapped on project base maps.

A.1 Vegetation

The dominant plants and their wetland indicator status were evaluated to determine if the vegetation was hydrophytic. To determine which plants were dominant at a sample plot, biologists applied the 50/20 rule per USACE recommendations. Under this guidance, absolute cover estimates were made for each species found rooted within the sample plot, for each vegetative stratum found in the habitat (tree, sapling/shrub, herb, and woody vine). The species that had the most cover was included along with the next species until the absolute cover of these totaled more than 50 percent of the total absolute cover. Any other species that represented at least 20 percent of the total absolute cover was also included as a dominant species for that vegetative stratum.

Sample plots varied in size depending on site topography and habitat complexity. The objective of establishing a plot was to depict particular plant associations that reflect specific water regimes or other ecological factors. For example, on steep-sided riparian areas a plot may consist of a narrow strip along the water's edge, and within a floodplain a plot may be a standard 30-foot circle.

Hydrophytic vegetation is defined as vegetation adapted to wetland conditions. To meet the hydrophytic vegetation criterion, more than 50 percent of the dominant plants in each stratum must be Facultative, Facultative Wetland, or Obligate, based on the wetland indicator category assigned to each plant species by the USACE (USACE, 2014). Table A-1 lists the definitions of the indicator categories.

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TABLE A-1Definitions of Wetland Plant Indicator Categories used to Determine the Presence of Hydrophytic Vegetation

Wetland Indicator Category	Symbol	Definition
Obligate Wetland Plants	OBL	Plants that almost always (>99% of the time) occur in wetlands, but which may rarely (<1% of the time) occur in non-wetlands.
Facultative Wetland Plants	FACW	Plants that often (67 to 99% of the time) occur in wetlands, but sometimes (1 to 33% of the time) occur in non-wetlands.
Facultative Plants	FAC	Plants with a similar likelihood (34 to 66% of the time) of occurring in both wetlands and non-wetlands.
Facultative Upland Plants	FACU	Plants that sometimes (1 to 33% of the time) occur in wetlands, but occur more often (67 to 99% of the time) in non-wetlands.
Upland Plants	UPL	Plants that rarely (<1% of the time) occur in wetlands, and almost always (>99% of the time) occur in non-wetlands.

Source: Lichvar, et al. (2012).

Sound Transit identified plants to the species level in the field and estimated percent cover of dominant plants. Scientific and common plant names follow currently accepted nomenclature. Most names are consistent with *Flora of the Pacific Northwest* (Hitchcock and Cronquist, 1973) and the PLANTS Database (U.S. Department of Agriculture Natural Resources Conservation Service [NRCS], 2013). During the field investigation, staff observed and recorded the dominant plant species on data sheets (Appendix B) for each data plot.

A.2 Soils

Generally, an area must contain hydric soils to be a wetland. Hydric soil forms when soils are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper 12 inches. Biological activities in saturated soil result in reduced oxygen concentrations and organisms turn to anaerobic processes for metabolism. Over time, anaerobic biological processes result in certain soil color patterns, which are used as indicators of hydric soil. Typically, low-chroma colors are formed in the soil matrix, and bright-colored redoximorphic features form within the matrix. Other important hydric soil indicators include organic matter accumulations in the surface horizon, reduced sulfur odors, and organic matter staining in the subsurface (NRCS, 2010).

Sound Transit examined soils by excavating sample pits to a depth of 20 inches to observe soil profiles, colors, and textures. In some cases, a shallower soil pit was adequate to document hydric soil indicators. Munsell color charts (Munsell Color Company, 2009) were used to describe soil colors.

A.3 Hydrology

Project staff examined the potential wetland areas for evidence of hydrology. Wetland hydrology criteria were considered satisfied if it appeared that the soil was seasonally inundated or saturated to the surface for a consecutive number of days greater than or equal to 12.5 percent of the growing season. The growing season for the area was determined based on the period in which temperatures are above 28 degrees Fahrenheit for 5 out of 10 years (Ecology, 1997) using the long-term climatological data collected by the NRCS (2014). Using the NRCS (2002) WETS table for the nearest

station (Sea-Tac Airport, Washington), the growing season was approximated to be typically between February 6 and December 9, or a total of 305 days.

Wetland hydrology indicators are divided into two categories, primary and secondary indicators (USACE, 2010). Primary indicators of hydrology include surface inundation, high water table, and saturated soils. The presence of one primary indicator is sufficient to conclude that wetland hydrology is present. In the absence of a primary indicator, observation of two or more secondary indicators is required to conclude that wetland hydrology is present. Secondary indicators of hydrology include drainage patterns, water-stained leaves, and geomorphic setting (USACE, 2010).

A.4 References

Hitchcock, L.H., and A. Cronquist. 1973. *Flora of the Pacific Northwest: An Illustrated Manual.* University of Washington Press. Seattle, Washington.

Munsell Color Company. 2009. Munsell Soil Color Charts. Grand Rapids, Michigan.

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Washington State Department of Ecology (Ecology). 1997. *Washington State Wetlands Identification and Delineation Manual*. https://fortress.wa.gov/ecy/publications/summarypages/9694.html. March 1997.







Drainet/Site	WETLAND D	ETERMINAT	TION DAT	A FORM -		ountains Bellevue	-	and Coas	_		14	
_	FWLE / I-5			City/Cour	щ.				-			
Applicant/Owner:		ι	5			State		Sampling	-			
Investigators:	Lisa Danielski		Dangelei Fo				vnship, Range		T 22 N			
Landform (hillslop	pe, terrace, etc.):	Depression			Local Relief (co	oncave, conv	ex, none): _(Concave		Slope	e(%) <u><</u>	:1
Subregion (LRR)	: A		Lat: 47.4	103173	Long	: -122.293	134	Da	tum: N	AD83		
Soil Map Unit Na	me: Arents, Al	derwood materi	al, 6 to 15 pe	rcent slopes			NWI Classific	cation:				
Are climatic / hyd	Irologic conditions	on the site typic	al for this time	e of year?	Yes	No X	(If No, ex	plain in Rem	narks)			
Are Vegetation	, Soil,	Hydrology	, significan	tly disturbed	? ,	Are "Normal	Circumstance	es" present?	Yes	Χ	No	
Are Vegetation	, Soil,	Hydrology	, naturally	problematic?	•	(If needed,	explain any a	inswers in R	emarks	.)		
SUMMARY (OF FINDINGS	- Attach a si	ite map sh	owing sa	mpling poi	nt locatio	ns, transe	cts, impo	rtant	featur	es, et	tc.
Hydrophytic Ve	getation Present?	Yes	No X									
Hydric Soil Pres	sent?	Yes	No X		Sampled Area							
Wetland Hydrol	ogy Present?	Yes X	No	within	a Wetland?		Yes	No	Х	_		
wetland delinear	plot located north o tion) resulted in we	tland hydrology	indicators; ho	0 1	,		,	over 3 inche	es in the	week p	rior to	
VEGETATIO	N _ Use scient	ific names of	plants.	% Cover	Species	Status	Dominanc	e Test Worl	ksheet:			
Tree Stratum	(Plot siz	e: <u>30 Ft</u>)					Dominant S				
Acer mac	rophyllum			50	Y	FACU		BL, FACW,		:	0	(A)
				50	=Total Cover		Total Numb	per of Domir	ant			
Shrub Stratun	<u>n</u> (Plot siz	e: <u>50 Ft</u>)					cross all Stra			3	(B)
Symphori	carpos albus		,	2	Υ	FACU				_		_ ` ′
Herb Stratum				2	=Total Cover			Dominant S BL, FACW,			0.0%	(A/B)
Vine Stratum							Prevalence	e Index Wo	rksheet	:		
ville Stratum	– (Plot siz	e: <u>30 Ft</u>)				Total %	6 Cover of:		Multi	ply by:	
Ilex Aquif	olium			1	N		OBL specie	es	0	x 1 =	0	
				1	=Total Cover		FACW spe	cies	0	x 2 =	0	
							FAC specie		0	x 3 =	0	
							FACU spe		62	x 4 =	248	
							UPL specie	·	0	x 5 =	0	
							OFL Specie	=5		_	0.40	(D)
							Column To	tals:	62	(A)	248	(B)
							Prev	alence Index	c = B/A =	·	4.00	
							Hydrophyti	c Vegetatio	n Indica	ators:		
							Rapid	Test for Hyd	rophytic	: Vegeta	ation	
							Domin	ance Test >	50%			
							Preval	ence Index s	≤ 3.0			
								ological Ada Remarks o				oorting
							Proble	matic Hydro	phytic V	egetation	on (Ex	plain)
							Indicators	of hydric so resent, unle	il and w	etland h	ydrolog	gy
% Bare Ground	in Harh Stratum						Hydror Vegetation	ohytic	Yes		-	X
	e photo numbers h	nere or on a sen	arate sheet)									
	es not meet any ve											

SOIL Sampling Point: SP 05-1-1

	ption. (Des	Matrix	deptii need	ieu to uocu		Features	COMMINIC	ne absence of mulcators.)	
Depth (inches)	Colo	r (moist)	%	Color (mo			Loc ²	 Texture	Remarks
0 to 13	7.5YR	3 / 2	100	00101 (1110	70	1,700		Gravely Sandy Loam	
13 to 19	10YR	3/4	100					Gravely Sandy Loam	-
¹Type: C=Cond				ed Martix C	S=Covered o	or Coated S	Sand Grai		
		- Bopiotion	, , , , , , , , , , , , , , , , , , , ,	ou marin, o		, ocatou (, iii iiiddin.
Hydric Soil In Histosol (A1 Histic Epipe Black Histic	l) edon (A2)			Sandy Red Stripped Ma	` ') (except MI	LRA 1)	Indicators for Problematic H 2 cm Muck (A10) Red Parent Material (TF2)	
= .	ulfide (A4) elow Dark Su Surface (A12	` '		Depleted M	yed Matrix (F2) latrix (F3) k Surface (F6)			✓ Very Shallow Dark Surface (T✓ Other (Explain in Remarks)	,
_	ky Mineral (S ed Matrix (S4	· ·		- '	eark Surface (F)	7)		³ Indicators of hydrophytic vegeta hydrology must be present, unless disturbed or problematic	
Туре:		(if observe	d):					Hydric Soil Present?	Yes No X
Depth (inche Remarks:	es):							,	
HYDROLOG Wetland Hyd Primary Indica	Y rology Ind	licators:		neck all that	apply)			Secondary Indicators (min	nimum of two required)
Surface Wa High Water Saturation (A) Water Mark	Table (A2) A3)			1, 2, 4	r-Stained Leave 4A and 4B) Crust (B11) tic Invertebrate:		cept MLRA	Water-Stained Leaves 4A, and 4B) Drainage Patterns (B10	0)
Sediment D Drift Deposi Algal Mat or	eposits (B2) ts (B3) Crust (B4)			Oxidi:	ogen Sulfide Od zed Rhizosphe ence of Reduce nt Iron Reductio	res along Li		(C3) Dry-Season Water Tab Saturation Visible on A Geomorphic Position (I Shallow Aquitard (D3)	erial Imag.(C9)
Iron Deposit					ed or Stressed		. ,	FAC-Neutral Test (D5)	
	l Cracks (B6)) rial Imagery (E	R7)		(Explain in Re	` '	, (214171)	Paised Ant Mounds (Di	, ,
_		cave Surface	•		(Explain in ite	marks)		Frost-Heave Hummock	(S (D7)
Field Observa			(20)						
Surface Wate	_	Yes	. No	Х	Depth (inches):				
Water Table F		Yes		·	Depth (inches):		11"		
Saturation Pre		Yes	<u> </u>	·	Depth (inches):		8"	Wetland Hydrology Present?	Yes _X_ No
(includes capi	illary fringe)								
Describe Record Remarks:	led Data (stre	eam gauge, m	onitoring well,	aerial photos,	previous inspe	ections), if a	vailable:		
	gy meets ind	icators for high	h water table (A	A2) and satur	ation (A3). How	vever, becau	use of abno	ormally high precip, this is not considered	a wetland.

WETLAND DETERMINATION DATA Project/Site: FWLE / I-5	A FORM - V		ountains, Bellevue	-	nd Coast	_		114	
Project/Site: FWLE / I-5 Applicant/Owner: Sound Transit	City/Court		State		Sampling I	_			
Investigators: Lisa Danielski Dangelei Fo				vnship, Range		T 22 N		- 1-2 4 E	
Landform (hillslope, terrace, etc.): Depression				rex, none): Co		1 22 11		e(%) <	.1
Subregion (LRR): A Lat: 47.4			-122.293			tum: N	-	C(70) _	
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 per				NWI Classifica		uiii. IN	7000		
Are climatic / hydrologic conditions on the site typical for this time		Yes	No X	(If No, expl		arke)			
Are Vegetation, Soil, Hydrology, significan	,		-	(ii No, expi			V	No	
Are Vegetation, Soil, Hydrology, naturally	-							_ 100 _	
			•	explain any an			•		
SUMMARY OF FINDINGS - Attach a site map sh	owing sar	mpling poi	nt locatio	ns, transec	ts, impo	rtant :	reatu	res, et	C.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X	la tha C	amandad Ausa							
Mattend Hudrales: Dresent?		ampled Area Wetland?		Yes	No	Х			
Remarks: Yes X No									
Upland sample plot located just north of Wetland 5-1. Record rawetland delineation); however, vegetation and soils do not meet		previous mont	h (6.5 inche	s in February a	nd over 3 i	nches ir	i the we	eek prio	r to
VEGETATION Use scientific names of plants.	Absolute	<u>Dominant</u>	Indicator						
<u>Tree Stratum</u> (Plot size: <u>30 Ft</u>)	<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance					
Populus balsamifera	50	Υ	FAC	Number of E That Are OB			:	1	(A)
	50	=Total Cover	-						
Shrub Stratum (Plot size: 50 Ft)		_		Total Number				2	(B)
Symphoricarpos albus	65	Υ	FACU	Openios 7 to 1	, , , , , , , , , , , , , , , , , , ,		_		_ (5)
Cornus alba	15	N	FACW	Percent of D				50.0%	(A/B)
	80	=Total Cover		That Are OB					
Herb Stratum				Prevalence		ksheet	:		
Vine Stratum_				Total %	Cover of:			ply by:	
				OBL species	·	0	x1=	0	
				FACW speci	es	15	x 2 =	30	
				FAC species	·	50	x 3 =	150	
				FACU speci	es	65	x 4 =	260	
				UPL species	<u> </u>	0	x 5 =	0	
				Column Tota	ıls:	130	(A)	440	(B)
				Preval	ence Index	S = B/A =	:	3.38	
				Hydrophytic	Vegetatio	n Indica	ators:		
				Rapid Te	est for Hydi	rophytic	Veget	ation	
				Dominar	nce Test >	50%			
				Prevaler	nce Index ≤	3.0			
					ogical Adar Remarks or				oorting
				Problem	atic Hydrop	ohytic V	egetati	on (Ex	plain)
				Indicators o					
% Bare Ground in Herb Stratum				Hydroph Vegetation I	•	Yes		No 2	x
Remarks: (Include photo numbers here or on a separate sheet.)				1				-	
This sample does not meet dominance or prevalence test for hy	/drophytic vec	getation.							

SOIL Sampling Point: SP 05-1-2

Depth	/latrix				Redox Fe	eatures			
(inches) Color (m	oist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 11 10YR	2/2	100			= 		·	Gravely Sandy Loam	
11 to 18 7.5YR	3 / 4	100						Gravely Sandy Loam	
¹ Type: C=Concentration, D=D	epletion,	RM=Rec	luced Mart	ix, CS=Co	vered or C	Coated S	Sand Grain	ns. 2Location: PL=Pore Lini	ing, M=Matrix.
Hydric Soil Indicators:								Indicators for Problematic	c Hydric Soils: ³
Histosol (A1)			Sandy	Redox (S5	j)			2 cm Muck (A10)	
Histic Epipedon (A2)			Strippe	ed Matrix (S	86)			Red Parent Material (TF2)	
Black Histic (A3)			Loamy	Mucky Mir	neral (F1) (e	except ML	-RA 1)	Very Shallow Dark Surface	
Hydrogen Sulfide (A4)			Loamy	Gleyed Ma	atrix (F2)			Other (Explain in Remarks	` '
Depleted Below Dark Surface	e (A11)		= '	ed Matrix (•				,
Thick Dark Surface (A12)			=	Dark Surfa	` '			³ Indicators of hydrophytic veg	getation and wetland
Sandy Mucky Mineral (S1)				ed Dark Su				hydrology must be present, unless disturbed or problema	
Sandy Gleyed Matrix (S4)			☐ Redox	Depressio	ns (F8)			unless disturbed or problems	auc.
Restrictive Layer (if o	bserved	i):							
Туре:								Undria Cail Brasant?	Voc. No. N
Depth (inches):								Hydric Soil Present?	Yes No)
Wetland Hydrology Indicat		required	: check all	that apply	·)			Cocondon Indicators (
Wetland Hydrology Indicat Primary Indicators (minimum		required			r) ned Leaves	(B9) (exc	ept MLRA	<u>·</u> <u>`</u>	minimum of two required
Wetland Hydrology Indicat Primary Indicators (minimum		required		Vater-Stain , 2, 4A and	ed Leaves (d 4B)	(B9) (exc	ept MLRA	<u>·</u> <u>`</u>	minimum of two required ves (B9) (MLRA 1, 2,
Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		required		Vater-Stair I, 2, 4A and Salt Crust (I	ned Leaves (d 4B) B11)	. , ,	ept MLRA	Water-Stained Leav 4A, and 4B)	ves (B9) (MLRA 1, 2,
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		required		Water-Stain , 2, 4A and Salt Crust (I	ned Leaves (d 4B) B11) ertebrates (E	313)	ept MLRA	Water-Stained Leav 4A, and 4B) Drainage Patterns (ves (B9) (MLRA 1, 2,
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		required		Water-Stain 1, 2, 4A and Salt Crust (I Aquatic Inve	ned Leaves (1 4B) B11) ertebrates (E	313) (C1)		Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o	ves (B9) (MLRA 1, 2,
Wetland Hydrology Indicat Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1)		required		Vater-Stain 1, 2, 4A and Salt Crust (I Aquatic Invel Hydrogen S Dxidized RI	ned Leaves (d 4B) B11) ertebrates (Eulfide Odor	313) (C1) along Liv		Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		required	\	Vater-Stair I, 2, 4A and Salt Crust (I Aquatic Inve Hydrogen S Dxidized Rh Presence o	ned Leaves (1 4B) B11) ertebrates (Eulfide Odornizospheres	313) (C1) along Liv ron (C4)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o	ves (B9) (MLRA 1, 2, (B10) Table (C2) on Aerial Imag.(C9) on (D2)
Vetland Hydrology Indicators Primary Indicators (minimum ✓ 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)		required	\ \ \ \ \ \ \ \ \ \ \ \	Nater-Stair Nater-Stair Nater (I Nater (I	need Leaves (1 4B) B11) ertebrates (Eulfide Odor nizospheres f Reduced In Reduction i	313) (C1) along Livron (C4) in Tilled S	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D3)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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)	of one is			Nater-Stain 1, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dxidized Ri Presence of Recent Iron Stunted or S	need Leaves (and 14B) B11) Pertebrates (Eulfide Odornizospheres f Reduced In Reduction i	B13) (C1) I along Liveron (C4) In Tilled Seants (D1)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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 In	of one is	7)		Nater-Stain 1, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dxidized Ri Presence of Recent Iron Stunted or S	need Leaves (1 4B) B11) ertebrates (Eulfide Odor nizospheres f Reduced In Reduction i	B13) (C1) I along Liveron (C4) In Tilled Seants (D1)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave	of one is	7)		Nater-Stain 1, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dxidized Ri Presence of Recent Iron Stunted or S	need Leaves (and 14B) B11) Pertebrates (Eulfide Odornizospheres f Reduced In Reduction i	B13) (C1) I along Liveron (C4) In Tilled Seants (D1)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave	of one is magery (B7 Surface (E	· ') 38)		Water-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dxidized Rt Presence of Recent Iron Stunted or S Other (Explain	erd Leaves (1 4B) B11) ertebrates (Eulfide Odornizospheres f Reduced In Reduction i Stressed Pla	B13) (C1) I along Liveron (C4) In Tilled Seants (D1)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concavers Surface Water Present?	magery (B7 Surface (E	., (7) (88) (8)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Water-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Didized Ri Presence of Recent Iron Stunted or S Dither (Explain Depth	med Leaves (and 4B) B11) B11) Britebrates (Eulfide Odornizospheres of Reduced In Reduction in Stressed Platain in Remanus (inches):	313) (C1) along Livron (C4) in Tilled \$ ants (D1)	ving Roots (Soils (C6) (LRR A)	Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave	magery (B7 Surface (E Yes Yes	7) 38) X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Nater-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dixidized Ri Presence of Recent Iron Stunted or S Dither (Explain Depth Depth	med Leaves (and 14B) B11) Pertebrates (Eulfide Odornizospheres of Reduced In Reduction in Stressed Pla ain in Rema (inches): (inches):	313) (C1) along Livron (C4) in Tilled \$ ants (D1) irks)	ving Roots (Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A) In (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present?	magery (B7 Surface (E Yes Yes	., (7) (88) (8)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Nater-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dixidized Ri Presence of Recent Iron Stunted or S Dither (Explain Depth Depth	med Leaves (and 4B) B11) B11) Britebrates (Eulfide Odornizospheres of Reduced In Reduction in Stressed Platain in Remanus (inches):	313) (C1) along Livron (C4) in Tilled \$ ants (D1) irks)	ving Roots (Soils (C6) (LRR A)	Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds Frost-Heave Humm	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A) In (D6) (LRR A)
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 In Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present?	magery (B7 Surface (E Yes Yes Yes	7) 38) X 		Nater-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dividized Ri Presence of Recent Iron Stunted or S Dither (Explain Depth Depth Depth	med Leaves (and 14B) B11) Pertebrates (Eulfide Odornizospheres of Reduced In Reduction in Stressed Platain in Remanulation (inches): (inches): (inches):	313) (C1) along Livron (C4) in Tilled Sants (D1) irks)s	ving Roots (Soils (C6) (LRR A) urface urface	Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds Frost-Heave Humm	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A) In (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	magery (B7 Surface (E Yes Yes Yes	7) 38) X 		Nater-Stair I, 2, 4A and Salt Crust (I Aquatic Inveitydrogen S Dividized Ri Presence of Recent Iron Stunted or S Dither (Explain Depth Depth Depth	med Leaves (and 14B) B11) Pertebrates (Eulfide Odornizospheres of Reduced In Reduction in Stressed Platain in Remanulation (inches): (inches): (inches):	313) (C1) along Livron (C4) in Tilled Sants (D1) irks)s	ving Roots (Soils (C6) (LRR A) urface urface	Water-Stained Leav 4A, and 4B) Drainage Patterns (Dry-Season Water Saturation Visible o Geomorphic Positio Shallow Aquitard (D FAC-Neutral Test (I Paised Ant Mounds Frost-Heave Humm	ves (B9) (MLRA 1, 2, (B10) Table (C2) In Aerial Imag.(C9) In (D2) In (D2) In (D5) In (D6) (LRR A) In (D6) (LRR A)

WETLAND DETERMINATION DATA	City/Count		ountains, Bellevue	-	d Coast Reg		114	
Project/Site: FWLE / I-5 Applicant/Owner: Sound Transit	City/Courn	.y	State		Sampling Pate. Sampling Point:			
Investigators: Lisa Danielski Dangelei Fo.	·			vnship, Range			- 1-3 4 E	
Landform (hillslope, terrace, etc.): Depression			,	vex, none): Co		Slope		
Subregion (LRR): A Lat: 47.40			-122.293		Datum: N		E(70)	
		Long.			ion: PSS1 / PF			
Are climatic / hydrologic conditions on the site typical for this time		Yes	No X		ain in Remarks)	01		
Are Vegetation, Soil, Hydrology, significant	•		-		present? Yes		No	
Are Vegetation, Soil, Hydrology, naturally p							_ 100 _	
SUMMARY OF FINDINGS - Attach a site map she			•		wers in Remarks	,	roe of	
Hydrophytic Vegetation Present? Yes X No	owing sai	iipiiiig poii	it iocatio	iis, transeci	.s, iiiiportant	Teatur	165, 61	
Hydric Soil Present? Yes X No	Is the S	ampled Area						
Wetland Hydrology Present? Yes X No		Wetland?		Yes X	. No			
Remarks:				-				
This plot meets the criteria for a wetland. Sample plot located in inches in the week prior to wetland delineation).	Wetland 5-1.	Record rainfa	III during pre	evious month (6.	5 inches in Febru	ary and	l over 3	
VEGETATION Use scientific names of plants.	Absolute	Dominant	Indicator					
	% Cover	<u>Species</u>	<u>Status</u>	Dominance 7	Test Worksheet:			
<u>Tree Stratum</u> (Plot size: <u>30 Ft</u>)	EE	Y	FAC		ominant Species		2	(A)
Populus balsamifera			FAC	That Are Ob	L, FACW, or FAC	·		_ (' ')
Shrub Stratum (Plot size: 50 Ft)		_=Total Cover		Total Number			0	(D)
Shrub Stratum (Plot size: 50 Ft) Cornus alba	60	Y	FACW	Species Acro	ss all Strata:	_	3	(B)
		N			minant Species		66.7%	(A/B)
	65	=Total Cover		That Are OBL	., FACW, or FAC	<u> </u>	00.1 70	_ (,,,,,,
Herb Stratum				Prevalence I	ndex Workshee	t:		
Vine Stratum (Plot size: 30 Ft)				Total % 0	Cover of:	Multi	ply by:	
(PIOUSIZE:	10	Y	FACU	OBL species	0	x 1 =	0	
	10	=Total Cover		FACW specie	es <u>60</u>	x 2 =	120	
	-			FAC species	55	x 3 =	165	
				FACU specie	es10	x 4 =	40	
				UPL species	0	x 5 =	0	
				Column Total	s: 125	(A)	325	(B)
				Prevale	ence Index = B/A	=	2.60	
				Hydrophytic \	Vegetation Indic	ators:		
				Rapid Te	st for Hydrophyti	c Veget	ation	
				X Dominan	ce Test > 50%			
				X Prevalen	ce Index ≤ 3.0			
					ogical Adaptations emarks or on a s			oorting
				Problema	atic Hydrophytic \	/egetati	on (Ex	plain)
					hydric soil and w sent, unless distu			
% Bare Ground in Herb Stratum				Hydroph Vegetation P	•	х	No	
Remarks: (Include photo numbers here or on a separate sheet.)				<u> </u>				
Vegetation meets the dominance test for hydrophytic vegetation.								

SOIL Sampling Point: SP 05-1-3

	ription: (De	scribe to the Matrix	depth nee	ded to document	t the indica Redox Fe		confirm tl	he absence of Indicators.)	
Depth (inches)	Colo	or (moist)	%	Color (moist)	%	Type 1	Loc ²	 Texture	Remarks
	-		· ·			Турс		FINE SANDY LOAM	
0 to 7 7 to 16	10YR	2 / 1	100 85	7.5YR 4/6	15	С		FINE SANDY LOAM	
	10YR			ced Martix, CS=C			M Cond Crain		M-Motrix
Type. C-Coi	icentiation,	D-Depletion,	KIVI-Reduc	ced Martix, CS-C	overed or C	Jualeu	Saliu Giali	ils. 4.0cation. FE-Fore Lining	, IVI-IVIALITX.
Depleted E Thick Dark Sandy Muc Sandy Gle	edon (A2) c (A3) Sulfide (A4) Below Dark Su Surface (A12 cky Mineral (Suyed Matrix (Sa	2)		Sandy Redox (Statistics) Stripped Matrix (Statistics) Loamy Mucky Mi Loamy Gleyed M Depleted Matrix (Statistics) Redox Dark Surf Depleted Dark Statistics Redox Depression	S6) ineral (F1) (e latrix (F2) (F3) lace (F6) urface (F7)	except MI	.RA 1)	Indicators for Problematic H 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (T Other (Explain in Remarks) 3 Indicators of hydrophytic vegeta hydrology must be present, unless disturbed or problematic.	F12) tion and wetland
Depth (incl	hee).							Hydric Soil Present?	res X No
HYDROLOG Wetland Hyd Primary India	drology Inc		s required; c	check all that appl	y)			Secondary Indicators (min	imum of two required)
Surface W	ater (A1) r Table (A2) (A3)		710401100, 0	Water-Stair 1, 2, 4A an Salt Crust (Aquatic Inv	ned Leaves d 4B) (B11) ertebrates (E	313)	ept MLRA	Secondary Indicators (min Water-Stained Leaves 4A, and 4B) Drainage Patterns (B10 Dry-Season Water Tab	(B9) (MLRA 1, 2,
Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely V	or Crust (B4) sits (B5) oil Cracks (B6 Visible on Ae 'egetated Cor) erial Imagery (E acave Surface (Oxidized R Presence of Recent Iron Stunted or	Sulfide Odor hizospheres of Reduced I n Reduction i Stressed Pla lain in Rema	along Lir ron (C4) in Tilled S ants (D1)	Soils (C6)	Saturation Visible on A	erial Imag.(C9) O2) 6) (LRR A)
Field Observ	vations:								
Surface Wat Water Table Saturation P (includes cap Describe Recor	Present? resent? pillary fringe)	Yes Yes	X No	Depth	(inches): (inches): (inches):	ons), if a	7" 5" vailable:	Wetland Hydrology Present?	Yes _X_ No
Remarks:									

WETLAND DETERMINATION DATA			ountains,	Valleys, an	d Coast Regi	on	
Project/Site: FWLE / I-5	City/County	/:	Bellevue		Sampling Date:	3/26/2014	
Applicant/Owner: Sound Transit			State:	WA	Sampling Point:	SP 05-1E-1	
Investigators: Lisa Danielski Brendan Ba	aughn		Section, Tow	nship, Range _	S 9 T 22 N	R 4 E	
Landform (hillslope, terrace, etc.): Toe of Slope	Lo	cal Relief (co	ncave, conv	ex, none): Cor	ncave	Slope(%)	
Subregion (LRR): A Lat: 47.4	402896	Long:	-122.2931	34	Datum: N	AD83	
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 pe	rcent slopes			NWI Classificati	ion: PEM1		
Are climatic / hydrologic conditions on the site typical for this tim	e of year?	Yes	No X	(If No, expla	nin in Remarks)		
Are Vegetation, Soil, Hydrology, significan	ntly disturbed?	A	re "Normal (Circumstances"	present? Yes	X No	
Are Vegetation, Soil, Hydrology, naturally	problematic?		(If needed,	explain any ans	wers in Remarks.	.)	
SUMMARY OF FINDINGS - Attach a site map sh	nowing sam	pling poir	nt location	ns, transect	s, important	features, et	tc.
Hydrophytic Vegetation Present? Yes X No							
Hydric Soil Present? Yes X No		mpled Area					
Wetland Hydrology Present? Yes X No	within a	Wetland?		Yes X	No		
Remarks: Record rainfall during previous month (6.5 inches in February a meets the criteria for a wetland.	and over 3 inche	es in the weel	k prior to we	tland delineation	n) Edge of wetlan	d 5-1. This plot	t
VEGETATION — Use scientific names of plants.		<u>Dominant</u>	Indicator				
Tree Stratum	<u>% Cover</u>	<u>Species</u>	<u>Status</u>		Test Worksheet:		
Shrub Stratum					ominant Species _, FACW, or FAC	. 2	(A)
Herb Stratum (Plot size: <u>5 Ft</u>)				Total Number	of Dominant		
Rumex obtusifolius	5	Υ	FAC	Species Acros	ss all Strata:	3	(B)
Veronica americana	5	Υ	OBL	Doroont of Do	minant Species		
	10	_=Total Cover			., FACW, or FAC:	66.7%	(A/B)
<u>Vine Stratum</u> (Plot size: <u>30 Ft</u>)				Prevalence li	ndex Worksheet	:	
Rubus armeniacus		Y	FACU	Total % C	Cover of:	Multiply by:	
	25	_=Total Cover		OBL species	5	x 1 = 5	
				FACW specie	es 0	x 2 = 0	
				FAC species	5	x 3 = 15	
				FACU specie	es25	x 4 = 100	
				UPL species	0	x 5 = 0	
				Column Total	s: <u>35</u>	(A) 120	(B)
				Prevale	nce Index = B/A=	3.43	
				Hydrophytic \	egetation Indica	ators:	
				Rapid Te	st for Hydrophytic	Vegetation	
				X_Dominan	ce Test > 50%		
				Prevalend	ce Index ≤ 3.0		
					gical Adaptations emarks or on a se		porting
					atic Hydrophytic V		plain)
					hydric soil and we sent, unless distur		
				Hydrophy Vegetation P	•	X No	
% Bare Ground in Herb Stratum Remarks: (Include photo numbers here or on a separate sheet.)					169		
This sample plot meets dominance test							
The cample plot mode dominance test							

SOIL	Sampling Point:	SP 05-1E-1
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Color (molst) % Color (molst) % Type Loc 2 Texture Remarks			Matrix	•		Padov Fa	aturae		he absence of Indicators.)		
10 to 8	•	Color (r		%	Color (moist)			Loc 2	Texture	Rema	arks
8		·					1 7 00		-		
15 to 18 10YR 4/3 90 7.5YR 4/6 10 C M FINE SANDY LOAM Type: C=Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains.						10					
Type: C=Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators:											
Hydric Soil Indicators: Histosol (A1)										ng M-Matrix	
Histocol (A1)	Турс. 0-00110	centration, D-	Depiction,	T (W) – T (Cut	deca Martix, 00-00	overed or o	oaica c	Jana Orai	ns. Location. 1 L-1 orc Limit	ing, ivi–iviatrix.	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A and 4B) Water Table (A2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Iron Deposits (B3) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Table (A2) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image.(C9) Saturation Visible on Aerial Image.(C9) Stallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Water Table (C2) Water Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image.(C9) Saturation Visible on Aerial Image.(C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Prost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches):	Histosol (A1 Histic Epipe Black Histic Hydrogen S Depleted Be Thick Dark S Sandy Muck Sandy Gleye Restrictin Type:	edon (A2) e (A3) Sulfide (A4) elow Dark Surfac Surface (A12) ky Mineral (S1) red Matrix (S4)		i):	Stripped Matrix (S Loamy Mucky Mi Loamy Gleyed M. Depleted Matrix (Redox Dark Surfa Depleted Dark St	S6) neral (F1) (exatrix (F2) F3) ace (F6) urface (F7)	xcept MI	_RA 1)	2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface Other (Explain in Remarks) Indicators of hydrophytic vege hydrology must be present, unless disturbed or problema	(TF12)) etation and wetla	nd
Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) ✓ Water Marks (B1) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Iron Deposits (B5) ✓ Surface Soil Cracks (B6) ✓ Inundation Visible on Aerial Imagery (B7) ✓ Sparsely Vegetated Concave Surface (B8) ✓ Surface Water Present? ✓ Yes X No ✓ Depth (inches): Surface Soill Cracks (Panches) ✓ Saturation (A3) ✓ Water Stained Leaves (B9) (except MLRA 1, 2, 4A and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Drainage Patterns (B10) ○ Dry-Season Water Table (C2) ○ Saturation Visible on Aerial Image. (C9) ○ Saturation Visible on Aerial Image. (C9) ○ Shallow Aquitard (D3) ○ FAC-Neutral Test (D5) ○ Paised Ant Mounds (D6) (LRR A) ○ Paised Ant Mounds (D6) (LRR A) ○ Frost-Heave Hummocks (D7) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ○ Drainage Patterns (B10) ○ Dry-Season Water Table (C2) ○ Saturation Visible on Aerial Image. (C9) ○ Saturation Visible on Aerial Image. (C9) ○ Shallow Aquitard (D3) ○ FAC-Neutral Test (D5) ○ Paised Ant Mounds (D6) (LRR A) ○ Frost-Heave Hummocks (D7) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ○ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ○ Drainage Patterns (B10) ○ Dry-Season Water Table (C2) ○ Saturation Visible on Aerial Image. (C9) ○ Saturation Visible on Aerial Image. (C9) ○ Shallow Aquitard (D3) ○ FAC-Neutral Test (D5) ○ FAC-Neutral Test (D5) ○ Frost-Heave Hummocks (D7) ○ Paised Ant Mounds (D6) (LRR A) ○ Frost-Heave Hummocks (D7) ✓ Water Table Present? ✓ Yes X No Depth (inches): 3 Wetland Hydrology Present? ✓ Yes X No Metland Leaves (B9)	temarks: Soils do not tech vegetation indica	Y		ria; no redo	oximorphic features ob	oserved in up	oper 8", I	ikely since	soils were saturated. Presence of wet	tland hydrology ai	nd hydrophyl
✓ Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imag.(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 Stressed Plants (D1) (LRR A) Paised 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 X No Depth (inches): Saturation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches): Yes X No Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches): Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Yes X No Depth (inches): Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Pr	Remarks: Soils do not tech vegetation indica	Y Irology Indica	ators:				oper 8", I	ikely since			
Water Marks (B1)	temarks: Soils do not tech vegetation indica HYDROLOG Wetland Hyd Primary Indica Surface Wa	Y Irology Indicators (minimum	ators:		check all that apply	/) ned Leaves (Secondary Indicators (m	ninimum of two	required)
Sediment Deposits (B2)	Remarks: Soils do not tech vegetation indica HYDROLOG Wetland Hyd Primary Indica Surface Wa High Water	Y Irology Indica ators (minimur tter (A1) Table (A2)	ators:		check all that apply Water-Stair 1, 2, 4A and	/) ned Leaves (d 4B)			Secondary Indicators (m Water-Stained Leave 4A, and 4B)	ninimum of two es (B9) (MLRA 1,	required)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes X No Depth (inches): Surface Soil Inundation Visible on Depth (inches): Saturation Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Similar Reduction in Tilled Soils (C6) Shallow Aquitard (D3) FAC-Neutral Test (D5) Shallow Aquitard (D3) FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No Inches Yes X No	Remarks: Soils do not tech vegetation indica HYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Y Irology Indicators (minimum Inter (A1) Table (A2) TA3)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (/) ned Leaves (d 4B) B11)	(B9) (exc		Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E	ninimum of two es (B9) (MLRA 1,	required)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Water Table Present? Yes X No Depth (inches): Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No (includes capillary fringe)	emarks: Soils do not tech vegetation indica IYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark	Y Irology Indicators (minimum ater (A1) Table (A2) (A3) (s (B1)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve	/) ned Leaves (d 4B) B11) ertebrates (B	(B9) (exc		Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T	ninimum of two es (B9) (MLRA 1, B10) Table (C2)	required)
□ Iron Deposits (B5) □ Recent Iron Reduction in Tilled Soils (C6) □ FAC-Neutral Test (D5) □ Stunted or Stressed Plants (D1) (LRR A) □ Paised 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:	HYDROLOG* Wetland Hyd Primary Indica Surface Wa High Water V Saturation (a Water Mark Sediment D	Y Irology Indicators (minimum oter (A1) Table (A2) A3) Iss (B1) Ineposits (B2)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve	ned Leaves (d 4B) B11) ertebrates (B	(B9) (exc	ept MLRA	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9	required)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Paised An	emarks: Soils do not tech vegetation indica IYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	Y Irology Indicators (minimum atter (A1) Table (A2) (A3) (as (B1) Deposits (B2) (its (B3)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve	ned Leaves (d 4B) B11) ertebrates (B sulfide Odor (hizospheres	(B9) (exc (B13) (C1) (C1) along Li	ept MLRA	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9 n (D2)	required)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummocks (D7) Surface Water Present? Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Significant Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No Depth (inches): Significant Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No Depth (inches): Significant Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No Depth (inches): Significant Frost-Heave Hummocks (D7)	emarks: Soils do not tech vegetation indica IYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	Y Irology Indicators (minimum of the (A1) Table (A2) A3) As (B1) Deposits (B2) Aits (B3) Tr Crust (B4)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve	ned Leaves (d 4B) B11) ertebrates (Biulfide Odor (hizospheres	(B9) (exc 313) (C1) along Li ron (C4)	ept MLRA	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3)	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9 n (D2) 3)	required)
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? YesX No Depth (inches): Saturation Present? YesX No Depth (inches): (includes capillary fringe) Wetland Hydrology Present? YesX No	emarks: Soils do not tech vegetation indica IYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Iron Deposit	Y Irology Indicators (minimur Inter (A1) Table (A2) A3) Is (B1) Deposits (B2) Inter (B3) In Crust (B4) Its (B5)	ators:		check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized R Presence o Recent Iron	ned Leaves (d 4B) B11) ertebrates (Bulfide Odor (hizospheres f Reduced In Reduction in	(B9) (exc (B13) (C1) along Liter fron (C4) in Tilled S	ept MLRA ving Roots Soils (C6)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3) FAC-Neutral Test (D	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9 n (D2) 3)	required)
Surface Water Present? Yes No _X Depth (inches):	emarks: Soils do not tech vegetation indica IYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposit Surface Soi	Y Irology Indicators (minimum Inter (A1) Table (A2) (A3) Is (B1) Deposits (B2) It (B3) Ir Crust (B4) Its (B5) It Cracks (B6)	ators: m of one is	required;	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or	ned Leaves (d 4B) B11) ertebrates (B iulfide Odor (hizospheres f Reduced Ir Reduction ir Stressed Pla	(B9) (exc (B13) (C1) along Lir ron (C4) n Tilled S ants (D1)	ept MLRA ving Roots Soils (C6)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (ninimum of two es (B9) (MLRA 1, B10) Fable (C2) n Aerial Imag.(C9 n (D2) 3) (D5) (D6) (LRR A)	required)
Water Table Present? Yes X No Depth (inches): 5 Saturation Present? Yes X No Depth (inches): 3 Wetland Hydrology Present? Yes X No (includes capillary fringe)	In Deposit	Y Irology Indicators (minimum ter (A1) Table (A2) A3) Is (B1) Ideposits (B2) Ideposits (B3) In Crust (B4) Its (B5) Ideposits (B6) Visible on Aerial	ators: n of one is	required;	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or	ned Leaves (d 4B) B11) ertebrates (B iulfide Odor (hizospheres f Reduced Ir Reduction ir Stressed Pla	(B9) (exc (B13) (C1) along Lir ron (C4) n Tilled S ants (D1)	ept MLRA ving Roots Soils (C6)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (ninimum of two es (B9) (MLRA 1, B10) Fable (C2) n Aerial Imag.(C9 n (D2) 3) (D5) (D6) (LRR A)	required)
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Saturation Present? Yes X No Depth (inches): 3 Wetland Hydrology Present? Yes X No (includes capillary fringe)	wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation \ Sparsely Ve	Y Irology Indicators (minimum of the (A2) (A3) (B1) (B2) (B2) (B3) (B4) (B5) (B5) (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6	ators: m of one is Imagery (B)	required; 7) 38)	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl	ned Leaves (d 4B) B11) ertebrates (B iulfide Odor (hizospheres if Reduced Ir Reduction ir Stressed Pla ain in Remar	(B9) (exc (B13) (C1) along Lir ron (C4) n Tilled S ants (D1)	ept MLRA ving Roots Soils (C6)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (ninimum of two es (B9) (MLRA 1, B10) Fable (C2) n Aerial Imag.(C9 n (D2) 3) (D5) (D6) (LRR A)	required)
(includes capillary fringe)	HYDROLOG Wetland Hyd Primary Indica Surface Wa High Water High Water Mater Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation N Sparsely Ve Field Observa Surface Wate	Y Irology Indicators (minimur Inter (A1) Table (A2) (A3) Is (B1) Inter (B3) In Crust (B4) Ints (B5) Ints (B5) Ints (B6) Visible on Aerial Inter (B6) Inter (B7)	ators: m of one is Imagery (Bive Surface (Bi	required; 7) 38)	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl	ned Leaves (d 4B) B11) ertebrates (B iulfide Odor (hizospheres of Reduced Ir Reduction ir Stressed Pla ain in Remar	(B9) (exc (B13) (C1) along Lir ron (C4) n Tilled S ants (D1)	ept MLRA ving Roots Soils (C6) (LRR A)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (ninimum of two es (B9) (MLRA 1, B10) Fable (C2) n Aerial Imag.(C9 n (D2) 3) (D5) (D6) (LRR A)	required)
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	Remarks: Soils do not tech vegetation indica HYDROLOG Wetland Hyd Primary Indica Surface Wa High Water High Water Saturation (a) Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation (a) Sparsely Ve Field Observa Surface Wate Water Table F Saturation Pre	Y Irology Indicators (minimumenter (A1) Table (A2) A3) Is (B1) Ideposits (B2) Ideposits (B2) Ideposits (B3) In Crust (B4) Its (B5) Ideposits (B6) Visible on Aerial Idepetated Concavations: In Present? In Present? In Present?	Imagery (Baye Surface (I	required; 7) 38) N	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or : Other (Expl	ned Leaves (d 4B) B11) ertebrates (B iulfide Odor (hizospheres of Reduced In Reduction in Remanain in	(B9) (exc (B13) (C1) along Lir ron (C4) n Tilled S ants (D1)	ept MLRA ving Roots Soils (C6) (LRR A)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (Frost-Heave Hummo	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9 n (D2) 3) 05) (D6) (LRR A) ocks (D7)	required) 2,
	Remarks: Soils do not tech vegetation indica HYDROLOG Wetland Hyd Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposit Surface Soi Inundation (Sparsely Ve Field Observa Saturation Pre (includes capi	Y Irology Indicators (minimum Inter (A1) Table (A2) (A3) (S (B1) Deposits (B2) (S (B3) (F Crust (B4) (S (B5) (F Crust (B6) (Visible on Aerial Egetated Concavations: (F Present? (F Present? (F Present? (F (B4) (F (B5) (F (B	Imagery (Bive Surface (If	required; 7) 38) N N	check all that apply Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl	ned Leaves (d 4B) B11) ertebrates (B isulfide Odor (hizospheres of Reduced In Reduction in Remandanin in Remandani	(B9) (exc B13) (C1) along Lir ron (C4) n Tilled \$ ants (D1) rks)	ept MLRA ving Roots Soils (C6) (LRR A)	Secondary Indicators (m Water-Stained Leave 4A, and 4B) Drainage Patterns (E Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (Frost-Heave Hummo	ninimum of two es (B9) (MLRA 1, B10) Table (C2) n Aerial Imag.(C9 n (D2) 3) 05) (D6) (LRR A) ocks (D7)	required) 2,

WETLAND DET	TERMINATION DA			ountains,	, Valleys, an	d Coast	t Regi	on		
Project/Site: FWLE / I-5		City/Count	y:	SeaTac		Sampling [Date: _3	3/26/20	14	
Applicant/Owner: Sound Transit				State	: <u>WA</u> 5	Sampling	Point: _	SP 05-	1E-2	
Investigators: Lisa Danielski	Brendan	Baughn		Section, Tov	vnship, Range _	S 9	T 22 N	R 4	·Ε	
Landform (hillslope, terrace, etc.):	Depression	Lo	ocal Relief (co	ncave, conv	vex, none): Cor	ncave		Slope	:(%)	
Subregion (LRR): A	Lat: _4	17.402860	Long	-122.2931	109	Dat	tum: NA	4D83		
Soil Map Unit Name: Arents, Alder	rwood material, 6 to 15	percent slopes			NWI Classificati	ion:				
Are climatic / hydrologic conditions on	the site typical for this t	time of year?	Yes	No X	(If No, expla	ıin in Rem	arks)			
Are Vegetation, Soil, H	ydrology, signific	cantly disturbed?	A	Are "Normal	Circumstances"	present?	Yes	X	No	
Are Vegetation, Soil, H	ydrology, natura	lly problematic?		(If needed,	explain any ans	wers in Re	emarks.)		
SUMMARY OF FINDINGS - A	Attach a site map	showing san	npling poi	nt locatio	ns, transect	s, impo	rtant f	featur	es, et	c.
Hydrophytic Vegetation Present?	Yes No X	_				•				
Hydric Soil Present?	Yes No X		mpled Area							
Wetland Hydrology Present?	Yes No X	within a	Wetland?		Yes	No	Х			
Remarks: Record rainfall during previous month wetland indicators. Upland sample pl			es in the wee	k prior to we	etland delineation	า). This plo	ot does	not mee	et all	
VEGETATION Use scientific	names of plants.	Absolute	Dominant	Indicator						
Tree Stratum		<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance 1					
Shrub Stratum					Number of Do That Are OBL		•	. <u></u>	0	(A)
	\									
Herb Stratum (Plot size: _ Taraxacum officinale	<u>5 Ft</u>)	1	Y	FACU	Total Number Species Acros				2	(B)
- Taraxacam ememale		1	=Total Cover	17100				-		_ ` ′
Vine Stratum (Plot size:	30 Ft)	-	10141 00461		Percent of Do That Are OBL				0.0%	_ (A/B)
Rubus armeniacus		50	Υ	FACU	Prevalence II	ndex Wor	ksheet:			
		50	_=Total Cover		Total % C	Cover of:		Multip	oly by:	
					OBL species		0	x 1 =	0	
					FACW specie	es	0	x 2 =	0	
					FAC species		0	x 3 =	0	
					FACU specie	es	51	x 4 =	204	
					UPL species		0	x 5 =	0	
					Column Total	s:	51	(A)	204	(B)
					Prevale	ence Index	s = B/A =		4.00	
					Hydrophytic \	/egetatio	n Indica	itors:		
					Rapid Te	st for Hydi	rophytic	Vegeta	tion	
					Dominan	ce Test >	50%			
					Prevalend	ce Index ≤	3.0			
						gical Adar emarks or				orting
						atic Hydror		•	,	plain)
					Indicators of must be pres					
0/ Bara Ones 1/ 1/ 1/ 2/					Hydrophy Vegetation P		Yes		No)	x
% Bare Ground in Herb Stratum Remarks: (Include photo numbers here	e or on a senarate shee	ot)				-	. 63	==='		
This sample does not meet any veger	•	,								

SOIL Sampling Point: SP 05-1E-2

Depth		Matrix			Redox F	eatures			
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 7	10YR	3/2	100	None				FINE SANDY LOAM	
7 to 15	2.5Y	4/2	99	10YR 5/8	1	С	M	Very Gravely Sandly Loam	Compacted layer
Type: C=Con	centration, D	=Depletion,	RM=Reduce	ed Martix, CS=C	overed or		Sand Grain	ns. ² Location: PL=Pore	e Lining, M=Matrix.
Hydric Soil I Histosol (A Histic Epipe Black Histic Hydrogen S Depleted B Thick Dark Sandy Muc Sandy Gley Restrict Type: Gi	Indicators: 1) edon (A2) c (A3) Sulfide (A4) delow Dark Surface (A12) cky Mineral (S1 yed Matrix (S4) ive Layer (intravel	face (A11)) f observed		ed Martix, CS=C Sandy Redox (S Stripped Matrix (Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	(S6) (S6) Ilineral (F1) (Aatrix (F2) (F3) face (F6) Surface (F7)			Indicators for Probler 2 cm Muck (A10) Red Parent Material (Very Shallow Dark St Other (Explain in Ren Indicators of hydrophyti hydrology must be pres unless disturbed or pro	matic Hydric Soils: ³ TF2) urface (TF12) narks) c vegetation and wetland ent,
This sample do		y hydric soil ir	ndicators. Sho	vel refusal at 15".					
Wetland Hyo Primary Indic Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat c Iron Depos Surface So Inundation	drology Indicators (minimum (A1)) Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	cators: um of one is	required; ch	water-Stai 1, 2, 4A ar Salt Crust Aquatic Inv Hydrogen 3 Oxidized F Presence Recent Iro	ined Leaves nd 4B)	(B13) r (C1) s along Li lron (C4) in Tilled S	ving Roots Soils (C6)	Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T	ater Table (C2) ble on Aerial Imag.(C9) osition (D2) ard (D3) est (D5) ounds (D6) (LRR A)

WETLAND DETERMINATION DATA			ountains,	Valleys, and	Coast Re	gion		
Project/Site: FWLE / I-5	City/Count	ty:	Bellevue	Sar	mpling Date:	3/11/20)14	
Applicant/Owner: Sound Transit			State:	WASa	mpling Point	: SP 05	-2-2	
Investigators: Lisa Danielski Dangelei Fo	X		Section, Tow	nship, Range S	28 T 22	N R	4 E	
Landform (hillslope, terrace, etc.): Depression	Lo	ocal Relief (co	oncave, conv	ex, none): Conca	ave	Slop	e(%)	
Subregion (LRR): A Lat:		Long	:		Datum:	NAD83		
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 per	cent slopes			NWI Classification	: None			
Are climatic / hydrologic conditions on the site typical for this time	of year?	Yes	No X	(If No, explain	in Remarks)			
Are Vegetation, Soil, Hydrology, significant	lly disturbed?		Are "Normal (Circumstances" pr	esent? Ye	es	No	Х
Are Vegetation, Soil, Hydrology, naturally p	oroblematic?		(If needed,	explain any answe	ers in Remar	ks.)		
SUMMARY OF FINDINGS - Attach a site map sh	owing san	npling poi	nt locatio	ns, transects,	importar	nt featu	res, et	C.
Hydrophytic Vegetation Present? YesNo _X								
Hydric Soil Present? YesNo _X		ampled Area						
Wetland Hydrology Present? Yes X No	within a	Wetland?		Yes	No X			
Remarks: This plot does not meet all wetland indicators. Record rainfall dudelineation). Verification plot in area identified during desktop in	oventory as W	etland 5-2.	,	ruary and over 3 in	nches in the	week prid	or to wet	land
VEGETATION Use scientific names of plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance Tes	ot Warkahas	.4.		
Tree Stratum (Plot size: 30 Ft)	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Number of Dom				
Populus balsamifera	50	Υ	FAC	That Are OBL, F			1	(A)
	50	=Total Cover		Tatal Niveskan at	: Damainant			
Shrub Stratum (Plot size: 50 Ft)				Total Number of Species Across			2	(B)
Symphoricarpos albus	65	Υ	FACU			_		_ ` <i>`</i>
Cornus sericea	15	N	FACW	Percent of Domi That Are OBL, F			50.0%	(A/B)
	80	=Total Cover						
Herb Stratum				Prevalence Inde				
Vine Stratum_				Total % Cov			iply by:	
				OBL species	0	x 1 =		
				FACW species	15	x 2 =		
				FAC species	50	_ x 3 =		
				FACU species	65	X 4 =	260	
				UPL species	0	x 5 =	0	
				Column Totals:	130	(A)	440	(B)
					e Index = B/		3.38	
				Hydrophytic Veg	_			
				Rapid Test	, , ,	tic Veget	ation	
				Dominance Prevalence				
				Morphologic data in Rem				orting
				Problematic	Hydrophytic	Vegetat	on (Ex	plain)
				Indicators of hy must be presen				
				Hydrophytic Vegetation Pres		۹	No 2	x
% Bare Ground in Herb Stratum Remarks: (Include photo numbers here or on a separate sheet.)					16		.10_/	
This sample does not meet any vegetative indicators.								

SOIL Sampling Point: SP 05-2-2

Profile Descri	ption: (Des		depth nee	ded to document			confirm th	ne absence of Indicators.)	
Depth		Matrix				eatures		<u> </u>	
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 11	10YR	2/2	100	None				Gravely Sandy Loam	
11 to 18	7.5YR	3 / 4	100	None				Gravely Sandy Loam	
¹Type: C=Con	centration, D)=Depletion,	RM=Redu	ced Martix, CS=Co	overed or	Coated	Sand Grair	ns. 4_ocation: PL=Pore Lining, N	1=Matrix.
Hydric Soil In Histosol (A1	1)		[Sandy Redox (S5				Indicators for Problematic Hyd	lric Soils: ³
Black Histic Hydrogen S Depleted Be	(A3) Sulfide (A4) elow Dark Sur	, ,]]]	Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (neral (F1) atrix (F2) F3)	(except M	LRA 1)	Red Parent Material (TF2) Very Shallow Dark Surface (TF1: Other (Explain in Remarks)	2)
Sandy Mucl	Surface (A12) ky Mineral (S1 ed Matrix (S4	1)	[Redox Dark Surfa Depleted Dark Su Redox Depressio	urface (F7)			³ Indicators of hydrophytic vegetation hydrology must be present, unless disturbed or problematic.	n and wetland
Type: Depth (inch	ve Layer (if observe	d): 					Hydric Soil Present? Yes	s No <u>X</u> _
Remarks: This sample doe	es not meet ar	ny hydric soil i	ndicators.						
HYDROLOG	Y								
Wetland Hyd	0.		s required; o	check all that apply	/)			Secondary Indicators (minim	num of two required)
Surface Wa	ter (A1)			Water-Stair		s (B9) (exc	cept MLRA	Water-Stained Leaves (BS	9) (MLRA 1, 2,
High Water	Table (A2)			1, 2, 4A and				4A, and 4B)	, ,
Saturation (A3)			Salt Crust (,			Drainage Patterns (B10)	
☐ Water Mark	s (B1)			Aquatic Inve		` '		Dry-Season Water Table	(C2)
Sediment D	eposits (B2)			☐ Hydrogen S		` '		Saturation Visible on Aeria	al Imag.(C9)
Drift Deposi	` '			Oxidized RI			ving Roots (Geomorphic Position (D2))
Algal Mat or				Presence o		, ,	Caila (CC)	Shallow Aquitard (D3)	
Iron Deposi							. ,	FAC-Neutral Test (D5)	
	l Cracks (B6)			☐ Stunted or \$		` '	(LRR A)	Paised Ant Mounds (D6) ((LRR A)
	Visible on Aer	• • • • • • • • • • • • • • • • • • • •	,	Other (Expl	ain in Rem	narks)		Frost-Heave Hummocks (D7)
	egetated Cond	ave Surrace	(88)						
Field Observa				. V Death	(° 1)				
Surface Wate		Yes			(inches):				
Water Table F Saturation Pro		Yes			(inches):		0	Wetland Hydrology Present?	Yes _X_ No
(includes capi		res	No	Depth	(inches):		0	Trouble Try and Logy 1 1000 III.	
		am gauge, mo	onitoring well	, aerial photos, previo	ous inspec	tions), if a	vailable:		
Wetland hydrolo	gy meets indi	cators for high	n water table	(A2) and saturation (A3).				

Project/Site:	WETLAND D FWLE / I-5	ETERMINA	TION DAT	A FORM -		lountains Bellevue			oast Reg		014	
_		iŧ		City/Cour	щ.	State			-			
Applicant/Owner:		IL	Dangalai F						ling Point:			
Investigators:	Lisa Danielski	Dannasian	Dangelei Fo			· ·	wnship, Range				4 E	
Landform (hillslop	. ,	Depression			Local Relief (c			oncave		_	e(%) _	
Subregion (LRR):			Lat: 47.3		Long	j: -122.297			Datum: N	IAD83		
Soil Map Unit Na		derwood materi					NWI Classific	-				
•	rologic conditions	,		•	Yes	No X	(If No, exp		,	.,		
	, Soil,					Are "Normal	Circumstance	s" prese	ent? Yes	X	No _	
Are Vegetation	, Soil,	Hydrology	, naturally	problematic?	•	(If needed,	explain any a	nswers	in Remarks	s.)		
SUMMARY (OF FINDINGS	- Attach a s	ite map sh	owing sa	mpling poi	nt locatio	ns, transe	cts, in	nportant	featu	res, et	tc.
	getation Present?	Yes X	No									
Hydric Soil Pres		Yes X	No		Sampled Area							
Wetland Hydrol Remarks:	ogy Present?	Yes X	No	within	a Wetland?		Yes	X	No	<u> </u>		
wetland. Sample	luring previous mo e plot located in W	etland 6-2.				•	etland delineat	ion) Thi	s site meet	s the cr	iteria for	a
VEGETATIO	N Use scient	ific names of	f plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance	e Test V	Vorksheet			
Tree Stratum							Number of					
Shrub Stratun	<u> </u>	e: <u>50 Ft</u>)				That Are O				1	(A)
Rubus sp	-		,	5	Υ	FAC	Total Numb	er of Do	ominant			
				5	=Total Cover		Species Ac				2	(B)
Herb Stratum							Danaant of I	D =! = -	-t Ci			_
Vine Stratum	– (Plot siz	e: 30 Ft)				Percent of I That Are Ol			: —	50.0%	(A/B)
Rubus arr	·	c. 3011	,	60	Υ	FACU	Prevalence	Index	Workshee	·-		
Hedera he	elix			5	N	FACU		6 Cover			tiply by:	
				65	=Total Cover		OBL specie		0	x 1 =		
							FACW specific		0	x 2 =	0	
							FAC specie		5	x 3 =	15	
							FACU special		65	x 4 =	260	
							UPL specie		0	x 5 =	0	
							Column Tot		70	(A)	275	(B)
							Preva	alence li	ndex = B/A	=	3.93	
							Hydrophytic	c Veget	ation Indic	ators:		
							Rapid 7	Test for	Hydrophyti	c Veget	ation	
							Domina	ance Te	st > 50%			
							Prevale	ence Ind	lex ≤ 3.0			
									Adaptation			porting
							X Probler	matic Hy	drophytic \	/egetat	ion (Ex	plain)
							Indicators must be pr		c soil and w unless distu			
0/ Da 0	in Haub Otras						Hydrop Vegetation	-	it? Yes	х	No	
% Bare Ground	in Herb Stratum e photo numbers h	nere or on a sen	arate sheet \						163			
	berry is acting as			sence of hyd	ric soils and hy	drology indi	cate hydronbyt	tic vege	tation			
i iiiialayan biack	Cony is acting as	an aggressive ii		Jeriee or riyul	no sons and Hy	arology irial	Jake Hydrophlyt	vege	auon.			

SOIL Sampling Point: SP 06-2-1

Depth	Matrix			Redox F	eatures			
	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 13 10YR	2/2	100					FINE SANDY LOAM	
13 to 17 10YR	5/2	95	10YR 3/4	5	С	M	LOAMY SAND	
Type: C=Concentration, D=	=Depletion,	RM=Reduc	ed Martix, CS=C	overed or	Coated	Sand Grain	ns. 4ocation: PL=Pore Linin	g, M=Matrix.
Hydric Soil Indicators:							Indicators for Problematic	Hydric Soils: 3
Histosol (A1)		V	Sandy Redox (S	5)			2 cm Muck (A10)	<u>, , , , , , , , , , , , , , , , , , , </u>
Histic Epipedon (A2)			Stripped Matrix ((S6)			Red Parent Material (TF2)	
Black Histic (A3)			Loamy Mucky M	ineral (F1) ((except MI	LRA 1)	Very Shallow Dark Surface ((TF12)
Hydrogen Sulfide (A4)			Loamy Gleyed M	latrix (F2)			Other (Explain in Remarks)	(11 12)
Depleted Below Dark Surfa	ace (A11)	L	Depleted Matrix	. ,			,	
Thick Dark Surface (A12)		L	☐ Redox Dark Surf	` '			³ Indicators of hydrophytic vege	tation and wetland
Sandy Mucky Mineral (S1)			☐ Depleted Dark S	, ,			hydrology must be present,	ia
Sandy Gleyed Matrix (S4)		L	Redox Depression	ons (F8)			unless disturbed or problemat	IC.
Restrictive Layer (if	observe	d):						
Type:							Hydric Soil Brosent?	Voc. V. No.
Depth (inches):							Hydric Soil Present?	Yes X No
YDROLOGY								
Wetland Hydrology Indic		required: c	heck all that appl	v)			Socondary Indicators (m	inimum of two requires
Wetland Hydrology Indic		required; c	Water-Stai	ned Leaves	s (B9) (exc	cept MLRA	Secondary Indicators (m ☐ Water-Stained Leave	•
Wetland Hydrology Indic Primary Indicators (minimu ☐ Surface Water (A1) ☑ High Water Table (A2)		required; c	Water-Stai	ned Leaves nd 4B)	s (B9) (exc	cept MLRA	Secondary Indicators (m Water-Stained Leave 4A, and 4B)	
Wetland Hydrology Indic Primary Indicators (minimu ☐ Surface Water (A1) ☑ High Water Table (A2)		required; c	Water-Stai 1, 2, 4A an	ned Leaves d 4B) (B11)	, ,,	eept MLRA	Water-Stained Leave	es (B9) (MLRA 1, 2,
Vetland Hydrology Indic Primary Indicators (minimu Surface Water (A1)		required; c	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv	ned Leaves nd 4B) (B11) vertebrates	(B13)	cept MLRA	Water-Stained Leave 4A, and 4B)	es (B9) (MLRA 1, 2,
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		required; c	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv	ined Leaves ad 4B) (B11) vertebrates Sulfide Odo	(B13) or (C1)		Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta	ns (B9) (MLRA 1, 2,
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		required; c	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R	ned Leaves ad 4B) (B11) vertebrates Sulfide Odo	(B13) or (C1) es along Li		Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta	10) able (C2) Aerial Imag.(C9)
Wetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		required; c	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R	ned Leaves id 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced	(B13) or (C1) es along Li Iron (C4)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on	10) able (C2) Aerial Imag.(C9) (D2)
Wetland Hydrology Indice Primary Indicators (minimumous Indicators		required; c	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o	ned Leaves ad 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction	(B13) or (C1) es along Li Iron (C4) or in Tilled S	ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3) FAC-Neutral Test (D5)	es (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2))
Wetland Hydrology Indice Primary Indicators (minimumous 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)	ım of one is		Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or	med Leaves id 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P	(B13) or (C1) es along Li Iron (C4) or in Tilled (ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D5 Paised Ant Mounds (ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2) (D2) 5) D6) (LRR A)
Wetland Hydrology Indic Primary Indicators (minimu 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 Aeria	um of one is	7)	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or	ned Leaves ad 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction	(B13) or (C1) es along Li Iron (C4) or in Tilled (ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3) FAC-Neutral Test (D5)	ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2) (D2) 5) D6) (LRR A)
Wetland Hydrology Indic Primary Indicators (minimu 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 Aeria Sparsely Vegetated Conca	um of one is	7)	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or	med Leaves id 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P	(B13) or (C1) es along Li Iron (C4) or in Tilled (ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D5 Paised Ant Mounds (ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2) (D2) 5) D6) (LRR A)
Wetland Hydrology Indic Primary Indicators (minimu 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 Aeria Sparsely Vegetated Conca	al Imagery (B ave Surface (7) B8)	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or Other (Exp	med Leaves ad 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced on Reduction Stressed P slain in Rem	(B13) or (C1) es along Li Iron (C4) or in Tilled (ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D5 Paised Ant Mounds (ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2) (D2) 5) D6) (LRR A)
Wetland Hydrology Indice Primary Indicators (minimum) 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 Aeria Sparsely Vegetated Conca	um of one is	7) B8)	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Iroi Stunted or Other (Exp	med Leaves id 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P	(B13) or (C1) es along Li Iron (C4) or in Tilled (ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D5 Paised Ant Mounds (ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2) (D2) 5) D6) (LRR A)
Wetland Hydrology Indice Primary Indicators (minimumous 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 Aeria Sparsely Vegetated Concast Field Observations: Surface Water Present?	al Imagery (B ave Surface (7) B8) No	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or Other (Exp	med Leaves and 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P Idain in Rem in (inches):	(B13) or (C1) es along Li Iron (C4) o in Tilled \$ Plants (D1) orarks)	ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D5 Paised Ant Mounds (ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2)) 55) D6) (LRR A) cks (D7)
	al Imagery (B ave Surface (Yes Yes Yes	7) B8) No No	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron Stunted or Other (Exp X Depth X Depth	med Leaves id 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P Idain in Rem in (inches): in (inches):	(B13) or (C1) es along Li Iron (C4) o in Tilled \$ Plants (D1) orarks)	ving Roots Soils (C6) (LRR A) 5" surface	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3) FAC-Neutral Test (D6) Paised Ant Mounds (I) Frost-Heave Hummon	ss (B9) (MLRA 1, 2, 10) able (C2) Aerial Imag.(C9) (D2)) 55) D6) (LRR A) cks (D7)

	ND DETERMINATION	ON DATA	FORM - City/Coun					_		114	
Project/Site: FWLE / I-5	T:t		City/Court	щ.	Bellevue		Sampling	-			
	Transit				State		Sampling				
Investigators: Lisa Danie		Dangelei Fo				vnship, Range	-	T 22 N		4 E	
Landform (hillslope, terrace, e	etc.): Depression			ocal Relief (co	ncave, conv	ex, none): C	Concave		Slop	e(%) _	
Subregion (LRR): A		Lat: 47.3	94837	Long	-122.297	177	Da	tum: N	AD83		
Soil Map Unit Name: Are	nts, Alderwood material	, 6 to 15 per	cent slopes			NWI Classific	ation:				
Are climatic / hydrologic cond	itions on the site typical	for this time	of year?	Yes	No X	(If No, exp	olain in Rem	arks)			
Are Vegetation, Soil	, Hydrology	, significant	ly disturbed?	?	Are "Normal	Circumstance	s" present?	Yes	X	No	
Are Vegetation, Soil	, Hydrology	, naturally p	roblematic?		(If needed,	explain any a	nswers in R	emarks	.)		
SUMMARY OF FINDIN		e map sh	owing sa	mpling poi	nt locatio	ns, transe	cts, impo	rtant	featu	res, et	c.
Hydrophytic Vegetation Pre	sent? YesI	No X									
Hydric Soil Present?		No X		Sampled Area a Wetland?							
Wetland Hydrology Present	? Yes I	No X	within a	a wetianu?		Yes	No	Х	_		
Remarks: Record rainfall during previo criteria to be classified as a				hes in the wee	k prior to we	tland delineat	ion). This si	te does	not me	et the	
VEGETATION Use s	cientific names of p	olants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance	Toot Worl	robooti			
Tree Stratum (PI	ot size: <u>30 Ft</u>)		70 00 101	<u> </u>	otatao		Dominant S				
Alnus rubra	, <u></u>		40	Υ	FAC		BL, FACW,		:	1	(A)
			40	=Total Cover							
Shrub Stratum (PI	ot size: <u>50 Ft</u>)					Total Numb Species Ac				3	(B)
Polygonum cuspidatum	•		45	Υ	FACU	0,000.007.0			_		_ (5)
Llorb Strotum			45	=Total Cover		Percent of I That Are Ol			: —	33.3%	(A/B)
Herb Stratum						Prevalence	Index Wo	ksheet	:		
Vine Stratum (PI	ot size: <u>30 Ft</u>)					Total %	Cover of:		Multi	ply by:	
Rubus armeniacus			45	Y	FACU	OBL specie	es	0	x 1 =	0	
			45	=Total Cover		FACW spec	cies	0	x 2 =	0	
						FAC specie		40	x 3 =	120	
						FACU spec		90	x 4 =	360	
						UPL specie		0	x 5 =	0	
							·	120		480	(D)
						Column Tot	tals:	130	(A)	400	(B)
						Preva	alence Index	c = B/A	=	3.69	
						Hydrophytic	c Vegetatio	n Indic	ators:		
						Rapid 7	Γest for Hyd	rophytic	: Vegeta	ation	
						Domina	ance Test >	50%			
						Prevale	ence Index s	≤ 3.0			
							ological Ada Remarks o				orting
							matic Hydro		•	,	plain)
						Indicators	of hydric so esent, unle	il and w	etland h	nydrolog	ıy
W Para Crawadia Hada C	h. 100					Hydrop Vegetation	hytic	Yes			X
% Bare Ground in Herb Strate Remarks: (Include photo num		ate sheet \				-		. 55			
This sample does not meet a											

SOIL Sampling Point: SP 06-2-2

Profile Descrip	•	he depth nee	ded to documen			onfirm th	ne absence of Indicators.)	
Depth	Matrix				eatures		<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 18	10YR 3 / 3	100	None				LOAMY SAND	
¹ Type: C=Conc	entration, D=Depletion	on, RM=Reduc	ced Martix, CS=C	overed or	Coated S	and Grain	ns. 2Location: PL=Pore Lining, M	=Matrix.
Hydric Soil In	dicators:						Indicators for Problematic Hyd	ric Soils: 3
Histosol (A1)			Sandy Redox (S	5)			2 cm Muck (A10)	
Histic Epiped			Stripped Matrix	. ,			Red Parent Material (TF2)	
Black Histic	` '		Loamy Mucky M	. ,	(except MLF	RA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Su			Loamy Gleyed N	, ,			Other (Explain in Remarks)	
	low Dark Surface (A11) Surface (A12)	L	Depleted Matrix Redox Dark Sur	` '				
	y Mineral (S1)		Depleted Dark Sur	, ,	١		³ Indicators of hydrophytic vegetation	and wetland
	ed Matrix (S4)		Redox Depressi	` '	,		hydrology must be present, unless disturbed or problematic.	
	a manx (01)			0110 (1 0)				
	e Layer (if observ	/ed):						
Type: Depth (inche	<i>ie).</i>						Hydric Soil Present? Yes	No X
Remarks:								
	s not meet any hydric so	il indicators.						
HYDROLOGY	Z							
Primary Indica	rology Indicators: tors (minimum of one	e is required; c					Secondary Indicators (minimu	m of two required)
Surface Water	* *		Water-Stair 1, 2, 4A ar		s (B9) (exce	pt MLRA	Water-Stained Leaves (B9) 4A, and 4B)	(MLRA 1, 2,
Saturation (A	A3)		Salt Crust	(B11)			Drainage Patterns (B10)	
☐ Water Marks			Aquatic Inv	ertebrates/	(B13)		Dry-Season Water Table (0	22)
Sediment De	eposits (B2)		_ ' '	Sulfide Odd	, ,		Saturation Visible on Aeria	·
Drift Deposit	s (B3)			-	es along Livi	ng Roots ((C3) Geomorphic Position (D2)	3 (33)
Algal Mat or	Crust (B4)			of Reduced	, ,		Shallow Aquitard (D3)	
Iron Deposits	s (B5)				n in Tilled So	` '	FAC-Neutral Test (D5)	
Surface Soil	Cracks (B6)				Plants (D1) (LRR A)	Paised Ant Mounds (D6) (L	.RR A)
	isible on Aerial Imagery	` '	Other (Exp	lain in Rem	narks)		Frost-Heave Hummocks (D	77)
	getated Concave Surfac	e (B8)						
Field Observa								
Surface Water		es No		(inches):				
Water Table P		es No		(inches):		17"	Wetland Hydrology Present?	Yes No_X_
Saturation Pre		es No	X Depth	(inches):			Wettand Hydrology Freschi:	103 NO_X_
(includes capill Describe Recorde	ed Data (stream gauge,	monitoring well,	aerial photos, prev	ious inspec	ctions), if ava	ailable:		
	, ,	,		•	,,			
Remarks:								
This sample does	s not meet any hydrolog	y indicators.						

Project/Site:	WETLAND FWLE / I-5	DETERMINA ⁻	TION DAT	A FORM - V		ountains, Bellevue	•	nd Coas	_		114	
Applicant/Owner		neit		Oity/ Court	·	State:		Sampling	-			
Investigators:	Lisa Danielski	ioit	Dangelei F	ov			nship, Range		T 22 N		4 E	
ŭ		Doprossion	Dangeleri				ex, none): Co		1 22 1		e(%)	
,	ppe, terrace, etc.):	Depression	Let: 47		,	•	· , —		stume. N	- '	e(%) _	
Subregion (LRR)	,		Lat: 47.		Long	-122.2971			tum: N	AD83		
Soil Map Unit Na	· ·	Alderwood materi					NWI Classifica	-				
,	drologic condition	31		,	Yes	No X	(If No, exp			.,		
	, Soil				, μ	Are "Normal (Circumstances	s" present?	Yes	X	_ No _	
-	, Soil					,	explain any an			,	-	_
	OF FINDINGS egetation Present		ite map si No	nowing sar	npiing poii	nt locatio	ns, transec	ts, impo	ortant	reatu	res, et	C.
Hydric Soil Pre	•	Yes		la tha C	ampled Area							
Wetland Hydro					ampled Area Wetland?		Yes	No	Х			
Remarks:		Yes	No X									
Record rainfall	during previous n assified as a wetla				nes in the wee	k prior to we	tland delineation	on). This s	ite does	not me	et the	
VEGETATIO)N _ Use scier	ntific names of	f plants.	Absolute % Cover	Dominant Species	Indicator Status						
Tree Stratum	! (Plot s	ize: <u>30 Ft</u>)	78 COVEL	Species	Status	Dominance					
Alnus rut	-	12C. <u>5011</u>	,	25	Υ	FAC	Number of I That Are OF			:	2	(A)
				25	=Total Cover							
Shrub Stratur	<u>m</u> (Plot s	ize: <u>50 Ft</u>)				Total Number Species Acre				3	(B)
Rubus sp	pectabilis	.zc. <u>-30 i c</u>	,	85	Υ	FAC	GP 00.007.0.			_		_ (5)
llex aquif	folium L.			5	N		Percent of D				66.7%	(A/B)
				90	=Total Cover		That Are OB	SL, FACW,	or FAC	_		_ ` ′
Herb Stratum	<u>1</u>						Prevalence	Index Wo	rksheet	:		
Vine Stratum	(Plot s	ize: 30 Ft	1				Total %	Cover of:			iply by:	
Rubus ar	rmeniacus	12C. <u>5011</u>	,	5	Υ	FACU	OBL species	<u> </u>	0	x 1 =	0	
				5	=Total Cover		FACW speci	ies	0	x 2 =	0	
							FAC species	S	110	x 3 =	330	
							FACU spec	ies	5	x 4 =	20	
							UPL species		0	x 5 =	0	
							Column Tota	als:	115	(A)	350	(B)
							Prevai	lence Inde	x = B/A=	=	3.04	
							Hydrophytic	Vegetatio	n Indic	ators:		
								est for Hyd			ation	
							X Domina	•	. ,	3		
								nce Index				
										/Dray	ido ouna	antina
								logical Ada Remarks o				orting
							Problem	natic Hydro	phytic \	'egetati	on (Exp	plain)
							Indicators of must be pre					
0/ D- 0	to the Control						Hydroph Vegetation	•	Yes	х	No	
	in Herb Stratum de photo numbers	here or on a ser	narate sheet \						103	^		
,	ets the dominance		,									

SOIL Sampling Point: SP 06-3-1

Depth	otion: (Describe to the Matrix	e depth need	led to document	Redox F		e absence of Indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ Loc ²	Texture	Remarks
0 to 18	10YR 3/3	100	None	-		FINE SANDY LOAM	
	entration, D=Depletion			vered or	Coated Sand Grain		ing, M=Matrix.
Hydric Soil In Histosol (A1 Histic Epiper Black Histic Hydrogen Sr Depleted Be Thick Dark S Sandy Muck Sandy Gleyer Restrictiv Type: Depth (inchese	dicators:) don (A2) (A3) Ulfide (A4) low Dark Surface (A11) Surface (A12) y Mineral (S1) ed Matrix (S4) //e Layer (if observe	ed):	ed Martix, CS=Co Sandy Redox (S5 Stripped Matrix (S Loamy Mucky Mir Loamy Gleyed Ma Depleted Matrix (f Redox Dark Surfa Depleted Dark Su Redox Depression) 6) eral (F1) (etrix (F2) F3) ce (F6) rface (F7)		Indicators for Problemati 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface Other (Explain in Remarks Indicators of hydrophytic very hydrology must be present, unless disturbed or problem Hydric Soil Present?	c Hydric Soils: 3 e (TF12) e) getation and wetland
-	rology Indicators: tors (minimum of one i	s required; ch		ed Leaves	s (B9) (except MLRA	<u>·</u>	minimum of two required) //es (B9) (MLRA 1, 2,
Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	A3) s (B1) eposits (B2) s (B3) Crust (B4)	,	Presence of Recent Iron	rtebrates ulfide Odo izosphere Reduced Reduction Stressed P	r (C1) s along Living Roots (Iron (C4) in Tilled Soils (C6)	Drainage Patterns (Dry-Season Water Saturation Visible of Geomorphic Position Shallow Aquitard (FAC-Neutral Test (Paised Ant Mounds Frost-Heave Humm	Table (C2) n Aerial Imag.(C9) n (D2) 03) D5) (D6) (LRR A)
Field Observation Surface Water Water Table P Saturation Pre (includes capil Describe Records	Present? Yes	S No	X Depth ((inches): (inches): (inches): ous inspec	>18" tions), if available:	Wetland Hydrology Preser	nt? Yes <u>No X</u>
Remarks: This sample does	s not meet any hydrology	indicators.					

	WETLA	ND DE	TERMI	NATIO	ON DAT		Western M		Valleys	•		_			
Project/Site:	FWLE / I-5					City/Cou	nty:	Bellevue		San	npling D	ate:	3/11/20	114	
Applicant/Owne	er: Sound	d Transit						State	. WA	Sar	mpling F	oint:	SP 06	-3-2	
Investigators:	Lisa Dani	elski		[Dangelei F	ox		Section, Tow	vnship, Rar	nge S	28 1	Γ 22 N	R 4	4 E	
Landform (hillsle	ope, terrace,	etc.):	Depress	sion			Local Relief (co	oncave, conv	ex, none):	Conca	ave		Slop	e(%)	
Subregion (LRF	R): A				Lat: 47.	394430	Long	: -122.2971	119		Datu	um: N	AD83		
Soil Map Unit N	ame: Ar	ents, Alde	erwood m	aterial,	6 to 15 pe	ercent slopes			NWI Class	ification	: PSS	1			
Are climatic / hy	drologic con	ditions or	n the site	typical	for this tim	ne of year?	Yes	No X	(If No,	explain	in Rema	ırks)			
Are Vegetation	, Soil	, F	Hydrology	'	, significar	ntly disturbed	!?	Are "Normal (Circumstan	ices" pre	esent?	Yes	Х	No	
Are Vegetation	, Soil	, H	Hydrology	′	, naturally	problematic	?	(If needed,	explain any	y answe	rs in Re	marks.	.)		
SUMMARY	OF FIND	INGS -	Attach	a site	map sl	howing sa	ampling poi	nt locatio	ns, trans	sects,	impor	tant	featu	res, et	C.
Hydrophytic V	J	esent?	Yes	X	No										
Hydric Soil Pre			Yes	X	No		Sampled Area								
Wetland Hydro	ology Preser	nt?	Yes	X N	10	WILIIII	a Wetland?		Yes	Х	No				
Remarks: Record rainfall wetland. Samp				ches in	February a	and over 3 in	ches in the wee	ek prior to we	tland deline	eation) ⁻	This site	meets	the cri	teria for	а
VEGETATION	ON_ Use	scientifi	ic name	s of p	lants.	Absolute % Cover		Indicator		_					
Tree Stratun	<u>n</u>					78 COVE	<u>Species</u>	<u>Status</u>	Domina						
Shrub Stratu	ım /r	N-4 -!	FO 5+	,					Number That Are				: _	1	(A)
	'''' (F spectabilis	iot size:	50 Ft)		80	Y	FAC							
- 100000	, pootaso					80	=Total Cover	-	Total Null Species					2	(B)
Herb Stratur	n						- Total Cover								_ (-/
Vine Stratum	n								Percent of That Are					50.0%	(A/B)
	rmeniacus	Plot size:	30 Ft)		10	Υ	FACU							
	arrierilacus					10		-	Prevaler			(sheet			
							Total Cover		-	I % Cov		0	x 1 =	ply by: 0	
									OBL spe			0	x 2 =	0	
									FACW s			80	x3=	240	
									FAC spe		-		x4=	40	
									FACU s	•	-	10 0	x5=	0	
									UPL spe	cies	-				
									Column	Totals:		90	(A)	280	(B)
									Pre	evalenc	e Index	= B/A=	=	3.11	
									Hydrophy	ytic Vec	getation	Indica	ators:		
									Rapi	id Test f	or Hydro	ophytic	: Veget	ation	
									Dom	inance	Test > 5	50%			
									Prev	alence	Index ≤	3.0			
													(Prov	ide supp	ortina
									data	in Rem	arks or	on a se	eparate	sheet)	
									X Prob	lematic	Hydrop	hytic V	egetati	on (Exp	plain)
									Indicato must be						
9/ Boro Craws	d in Llant Ot-	otum							Hydr Vegetati	ophytic		Yes	х	No	
% Bare Ground Remarks: (Inclu			re or on a	separ	ate sheet)			_						
Himalayan blad	•			•	,										

SOIL Sampling Point: SP 06-3-2

Depth	Matrix	uepin	needt	a to document	Redox F		Joinnin U	ne absence of Indicators.)	
(inches)	Color (moist)	%)	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 14 1	0YR 2 / 1	100		None	<u> </u>			Silty loam	
14 to 17 1	0YR 2 / 1	100		None				SANDY LOAM	
¹Type: C=Concent	tration, D=Depletion,	RM=R	educe	d Martix, CS=Co	overed or (Coated S	Sand Grain	ns. ² Location: PL=Pore Lining	, M=Matrix.
Hydric Soil Indic	cators:							Indicators for Problematic I	Hydric Soils: ³
Histosol (A1)				Sandy Redox (S5	5)			2 cm Muck (A10)	
Histic Epipedon	(A2)			Stripped Matrix (S	S6)				
Black Histic (A3)			Loamy Mucky Mir	neral (F1) (e	except ML	.RA 1)	Red Parent Material (TF2) Very Shallow Dark Surface (1	
Hydrogen Sulfid	e (A4)			Loamy Gleyed Ma	atrix (F2)			✓ Other (Explain in Remarks)	F12)
Depleted Below	Dark Surface (A11)			Depleted Matrix (F3)			Other (Explain in Remarks)	
Thick Dark Surf	ace (A12)			Redox Dark Surfa	ace (F6)			³ Indicators of hydrophytic vegeta	ation and watland
Sandy Mucky M	ineral (S1)			Depleted Dark Su	urface (F7)			hydrology must be present,	ation and wetland
Sandy Gleyed N	Matrix (S4)			Redox Depressio	ns (F8)			unless disturbed or problemation	. .
Restrictive	Layer (if observe	d):							
Туре:								Undria Cail Brasanta	Vaa V Na
Depth (inches):								Hydric Soil Present?	Yes X No _
lemarks:								sed on presence of wetland hydrology/hy	
Wetland Hydrol Primary Indicator	ogy Indicators: s (minimum of one is	s require	ed; che	eck all that apply	<i>(</i>)			Secondary Indicators (mir	nimum of two require
Surface Water (A1)			Water-Stair		(B9) (exc	ept MLRA	Water-Stained Leaves	· · · · · · · · · · · · · · · · · · ·
High Water Tab	le (A2)			1, 2, 4A and	•			4A, and 4B)	
Saturation (A3)				Salt Crust (•			Drainage Patterns (B1	0)
☐ Water Marks (B	1)			Aquatic Inve	ertebrates (B13)		Dry-Season Water Tal	
Sediment Depo	sits (B2)			Hydrogen S		` '		Saturation Visible on A	
Drift Deposits (E	33)			Oxidized RI	•	•	ing Roots	(C3) Geomorphic Position (• ,
Algal Mat or Cru	ıst (B4)			Presence o	f Reduced I	Iron (C4)		Shallow Aquitard (D3)	,
☐ Iron Deposits (E	35)			Recent Iron	Reduction	in Tilled S	Soils (C6)	FAC-Neutral Test (D5)	1
Surface Soil Cra	acks (B6)			Stunted or	Stressed Pl	ants (D1)	(LRR A)	Paised Ant Mounds (D	
Inundation Visib	le on Aerial Imagery (B	(7)		Other (Expl	ain in Rema	arks)		Frost-Heave Hummool	, ,
Sparsely Vegeta	ated Concave Surface ((B8)							()
Field Observatio	ns:								
Surface Water Pro	esent? Yes		No	X Depth	(inches):				
Water Table Pres	ent? Yes	X	No	Depth	(inches):	S	urface		
Saturation Preser	t? Yes	X	No	Depth	(inches):	S	urface	Wetland Hydrology Present?	Yes X No
(includes capillary									
Describe Recorded [Data (stream gauge, mo	onitoring	well, a	erial photos, previo	ous inspecti	ions), if av	/ailable:		
Remarks:						-			
Wetland hydrology n	neets indicators for high	ı water ta	able (A	2) and saturation (A3).				

	DETERMINATION D				•	•			
Project/Site: FWLE / I-5		City/County	y:	Kent		ampling Date:			
Applicant/Owner: Sound Tran				State		Sampling Point:			
Investigators: Lisa Danielski	Brenda	an Baughn			vnship, Range		R 4	E	
Landform (hillslope, terrace, etc.):	: Depression	Lo	ocal Relief (co	ncave, conv	rex, none): Con	icave	Slope	(%)	
Subregion (LRR): A	Lat:	47.394415	Long:	-122.2969	996	Datum: N	AD83		
Soil Map Unit Name: Arents,	Alderwood material, 6 to 1	5 percent slopes			NWI Classification	on: PFO1			
Are climatic / hydrologic condition	is on the site typical for this	s time of year?	Yes	No X	(If No, explai	in in Remarks)			
Are Vegetation, Soil	_, Hydrology, signi	ficantly disturbed?	Α	re "Normal	Circumstances"	present? Yes	X	No	
Are Vegetation, Soil	_, Hydrology, natu	rally problematic?		(If needed,	explain any ansv	wers in Remarks.	.)		
SUMMARY OF FINDINGS	S - Attach a site mar	showing san	npling poir	nt locatio	ns, transects	s, important	featur	es, et	c.
Hydrophytic Vegetation Present	•					•			
Hydric Soil Present?	Yes X No	Is the Sa	ampled Area						
Wetland Hydrology Present?	Yes X No	within a	Wetland?		Yes X	No	_		
Remarks: Record rainfall during previous n wetland. Sample Plot located in	Wetland 6-3.	Abcolute	es in the weel	prior to we	tland delineation	ı). This plot meet	s the cri	teria for	· a
VEGETATION Use scien	ntific names of plants	% Cover	Species	Status	Dominance T	est Worksheet:			
<u>Tree Stratum</u> (Plot s	size: <u>30 Ft</u>)				Number of Do	ominant Species			(4)
Alnus rubra		65	Y	FAC	That Are OBL	, FACW, or FAC	:	2	_ (A)
Populus balsamifera		25	Y	FAC	Total Number	of Dominant			
		90	_=Total Cover		Species Acros	s all Strata:		3	(B)
Shrub Stratum					Porcent of Do	minant Species			_
Herb Stratum						, FACW, or FAC:	:	66.7%	_ (A/B)
<u>Vine Stratum</u> (Plot s	size: 30 Ft)				Prevalence In	ndex Worksheet	•		
Rubus armeniacus		50	Y	FACU	Total % C		Multip	olv bv:	
		50	_=Total Cover		OBL species	0	x 1 =	0	
					FACW species	s 0	x 2 =	0	
					FAC species	90	x 3 =	270	
					FACU species	s 50	x 4 =	200	
					UPL species	0	x 5 =	0	
					Column Totals	. 140	(A)	470	(B)
							= ' ' =		
						nce Index = B/A=	_	3.36	
						egetation Indica			
					Rapid Tes	st for Hydrophytic	; Vegeta	tion	
					X Dominand	e Test > 50%			
					Prevalenc	ce Index ≤ 3.0			
						gical Adaptations emarks or on a se			orting
					Problemat	tic Hydrophytic V	'egetatio	n (Exp	olain)
						hydric soil and we			
% Bare Ground in Herb Stratum					Hydrophy Vegetation Pr		χı	No	
Remarks: (Include photo numbers	s here or on a separate sho	eet.)							
Vegetation meets the dominance	•	,							

SOIL	Sampling Point: SP 06-3-3
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Depth			Matrix				Redox F	eatures		he absence of Indicators.)	
(inche		Color	(moist)	%		olor (moist)	%		Loc ²	 Texture	Remarks
0 to		10YR	3/2	100		None		71		SANDY LOAM	
	12	10YR	4/2	85		.5YR 4/6	15	<u>C</u>		SANDY LOAM	_
	16	2.5YR	5/2	100		.011(4/0		<u> </u>		Gravely Loamy Sand	
					duced M	Nartiv CS=Co	vered or	Coated	Sand Grai		na M=Matrix
Hydric Hist Hist Blac Hyd Dep Thic San San Typ Dep	Soil Incoosol (A1) ic Epipedock Histic (Allogen Sull loleted Belock Dark Sull dy Mucky dy Gleyed strictive e:	dicators: Ion (A2) A3) Ilfide (A4) ow Dark Surf urface (A12) y Mineral (S1) d Matrix (S4) re Layer (if	ace (A11)		Sa Str Lo. Lo. V De	Indy Redox (S5 ripped Matrix (S amy Mucky Mir amy Gleyed Ma repleted Matrix (S dox Dark Surfa repleted Dark Surfa repleted Dark Surfa) 66) neral (F1) (atrix (F2) F3) ace (F6) arface (F7)	(except MI		Indicators for Problematic 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface Other (Explain in Remarks) Indicators of hydrophytic veg hydrology must be present, unless disturbed or problema	e Hydric Soils: 3 (TF12) etation and wetland
		not meet any	y hydric soil in	dicators.							
HYDRO Wetlan	DLOGY ad Hydro y Indicato	rology Indicators (minimu	cators:		d; check	all that apply		e (PQ) (ove	cont MI DA	<u></u> `	ninimum of two required)
Wetlan Primar Surf High Satt Sed Driff Alga Iron Surf	DLOGY ad Hydro y Indicato face Wate h Water Ta uration (A ter Marks liment Dep t Deposits al Mat or C Deposits face Soil C ndation Vision	rology India tors (minimular (A1) Table (A2) .3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aeria	cators:	required	l; check	all that apply Water-Stair 1, 2, 4A and Salt Crust (I Aquatic Inve Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Explain	ed Leaves 1 4B) 311) ertebrates ulfide Odo nizosphere f Reduced Reduction Stressed F	(B13) r (C1) es along Li Iron (C4) n in Tilled S Plants (D1)	ving Roots Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (I Dry-Season Water T Saturation Visible or	es (B9) (MLRA 1, 2, B10) Fable (C2) n Aerial Imag.(C9) n (D2) 3) (D5) (D6) (LRR A)

Project/Site:	WETLAND DE	TERMINATION		RM - \ y/Count		ountains, Kent	•	nd Coast Sampling [_		14	
Applicant/Owner			<u></u>	•	•	State:	WA	Sampling I	Point:	SP 06-	-3-4	
Investigators:	Lisa Danielski	Bre	endan Baughn		;	 Section, Tow	nship, Range		T 22 N	R 4		
Landform (hillslo	ppe, terrace, etc.):	Toe of Slope		L	ocal Relief (co	ncave, conv	ex, none): Co	oncave		Slope	∍(%)	
Subregion (LRR): A	Li	at: 47.394445	5	Long	: -122.2969	189	Dat	um: N	AD83		
Soil Map Unit Na	ame: Arents, Alde	erwood material, 6	to 15 percent s	slopes			NWI Classifica	tion:				
Are climatic / hyd	drologic conditions or	the site typical for	this time of ye	ar?	Yes	No X	(If No, expl	ain in Rem	arks)			
Are Vegetation	, Soil, F	lydrology, s	significantly dist	turbed?	A	Are "Normal (Circumstances'	" present?	Yes	Х	No	
Are Vegetation	, Soil, H	lydrology, n	naturally proble	matic?		(If needed, e	explain any ans	swers in Re	emarks.)		
SUMMARY	OF FINDINGS -	Attach a site n	nap showir	ng sar	npling poi	nt locatio	ns, transec	ts, impo	rtant	featur	es, et	c.
Hydrophytic Ve	egetation Present?	YesNo	X									
Hydric Soil Pre		Yes X No			ampled Area							
Wetland Hydro	ology Present?	Yes No	X	vitnin a	Wetland?		Yes	No	Х	_		
	ation in region. This plants of the second o		Aba	licators.	Paired uplan	nd plot for We	etland 6-3.					
Tree Stratum		•		Cover	<u>Species</u>	<u>Status</u>	Dominance '	Test Work	sheet:			
Alnus rul	(5.5.125.	<u>30 Ft</u>)		10	Y	FAC	Number of D That Are OB				1	(A)
Shrub Stratu	<u>m</u>		-	10	_=Total Cover		Total Numbe Species Acro				2	(B)
Herb Stratum Vine Stratum	_						Percent of Do	ominant Sp	ecies		50.0%	(A/B)
	— (Plot size:	<u>30 Ft</u>)			.,	E4.011	That Are OB	L, FACW, o	or FAC:		30.070	_ (/////)
Rubus a	rmeniacus			65 65	- <u>Y</u>	FACU	Prevalence l	Index Wor	ksheet	:		
			=		_=Total Cover		Total %	Cover of:			ply by:	
							OBL species		0	x1=_	0	
							FACW specie		10	x 2 = x 3 =	30	
							FAC species		65	x 4 =	260	 -
							FACU species		0	x 5 =	0	
							UPL species		75	(A)	290	(B)
							Column Tota	ıls:	7.5	(^)		(D)
							Prevale	ence Index	= B/A=		3.87	
							Hydrophytic	Vegetation	n Indica	itors:		
							Rapid Te	est for Hydr	ophytic	Vegeta	ation	
							Dominar	nce Test >	50%			
							Prevaler	nce Index ≤	3.0			
								ogical Adar Remarks or				orting
							Problem	atic Hydrop	hytic V	egetatio	on (Exp	plain)
							Indicators of must be pre					
							Hydroph Vegetation F	•	Voc		No '	v
	in Herb Stratum de photo numbers hei	re or on a senarato	sheet)				3 1		Yes		No)	<u> </u>
	ot does not meet dom											
Sample pic		o. p.ovalon										

SOIL Sampling Point: SP 06-3-4

Depth (inches)		Matrix				eatures		the absence of Indicators.)	
	Color	(moist)	%	Color (moist)	%		1 Loc ²	 Texture	Remarks
	10YR	3 / 2	100			.,,,,		Gravely Sandy Loam	
	101R 10YR	4/2	98	2.5YR 4/6	2	С		Gravely Sandy Loam	
								LOAMY SAND	
	10YR	4/2	95	2.5YR 4/6	5	<u>C</u>	M		
11 to 16 Type: C=Concen	10YR	4 / 3	2	7.5YR 4/6	20	C	M Cand Cra	Gravely sand ains. 2Location: PL=Pore	Lining Manhatric
Hydric Soil Indi Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfid Depleted Below Thick Dark Surf Sandy Mucky M Sandy Gleyed I	n (A2) 3) de (A4) v Dark Surfi face (A12) Mineral (S1) Matrix (S4))		Sandy Redox (S Stripped Matrix Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	(S6) lineral (F1) Matrix (F2) (F3) face (F6) Surface (F7		ILRA 1)	Indicators for Problem 2 cm Muck (A10) Red Parent Material (Very Shallow Dark Su Other (Explain in Rem 3 Indicators of hydrophytic hydrology must be prese unless disturbed or prob	rface (TF12) larks) c vegetation and wetland ent,
This area meets hyd		icator for depl	eted matrix	(F3).				, , , , , , , , , , , , , , , , , , , ,	
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol	dric soil indi	cators:		check all that app				Secondary Indicato	rs (minimum of two required)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water	logy Indices (minimum)	cators:		check all that app	ined Leave	s (B9) (ex	cept MLRA	Secondary Indicato	rs (minimum of two required) Leaves (B9) (MLRA 1, 2,
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat	logy India rs (minimum) (A1) ole (A2)	cators:		check all that app Water-Sta 1, 2, 4A a	ined Leave nd 4B)	s (B9) (ex	cept MLRA	Secondary Indicato	, ,
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3)	logy India rs (minimu (A1)	cators:		check all that app Water-Sta 1, 2, 4A al	ined Leave nd 4B) (B11)	, , ,	cept MLRA	Secondary Indicato	Leaves (B9) (MLRA 1, 2,
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E	logy India rs (minimum) (A1) (A2) (B1)	cators:		check all that app Water-Sta 1, 2, 4A ar Salt Crust Aquatic In	ined Leave nd 4B) (B11) vertebrates	(B13)	cept MLRA	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Wa	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo	logy India rs (minimum) (A1) ble (A2) 31) sits (B2)	cators:		check all that app Water-Sta 1, 2, 4A ar Salt Crust Aquatic In	ined Leave nd 4B) (B11) vertebrates Sulfide Odd	(B13) or (C1)	·	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Wa	Leaves (B9) (MLRA 1, 2,
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E) Sediment Deposits (I	logy Indices (minimum) (A1) ble (A2) 31) bits (B2) B3)	cators:		check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F	ined Leave nd 4B) (B11) vertebrates	(B13) or (C1) es along L	iving Roots	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained A Saturation Visite Geomorphic Po	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imag.(C9) osition (D2)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Deposits (I Algal Mat or Cr	logy India rs (minimum (A1) pole (A2) 31) posits (B2) B3) ust (B4)	cators:		check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F	ined Leave nd 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced	(B13) or (C1) es along L I Iron (C4)	iving Roots	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained And AB) Drainage Patte Dry-Season Water-Stained And AB) Saturation Visite Geomorphic Potential	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I	dric soil indicates (Management (Managemen	cators:		check all that app Water-Sta 1, 2, 4A al Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	ined Leave nd 4B) (B11) vertebrates Sulfide Odd Rhizosphere of Reduced	(B13) or (C1) es along L I Iron (C4) n in Tilled	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Wa Saturation Visit Geomorphic Po Shallow Aquitar FAC-Neutral Te	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imag.(C9) bition (D2) rd (D3) est (D5)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr	dric soil indicates (Manual Manual Ma	cators: um of one is	required;	check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	ined Leave ined 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained As (C3) Geomorphic Potential Shallow Aquital FAC-Neutral Telescope Paised Ant Model	rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3) est (D5) unds (D6) (LRR A)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visit	logy Indices (Minimum) (A1) (A1) (A2) (B31) (B31) (B33) (B4) (B5) (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6	cators: um of one is	required;	check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	ined Leave nd 4B) (B11) vertebrates Sulfide Odd Rhizosphere of Reduced	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Wa Saturation Visit Geomorphic Po Shallow Aquitar FAC-Neutral Te	rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3) est (D5) unds (D6) (LRR A)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visil	logy India rs (minimum (A1) ble (A2) 31) bits (B2) B3) ust (B4) B5) racks (B6) ble on Aeria stated Conca	cators: um of one is	required;	check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	ined Leave ined 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained As (C3) Geomorphic Potential Shallow Aquital FAC-Neutral Telescope Paised Ant Model	rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3) est (D5) unds (D6) (LRR A)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water of the control of th	dric soil indicated indicated Concated indicated Concated indicated indicated indicated concated indicated indic	cators: um of one is al Imagery (B' ave Surface (I	required; 7) 38)	check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In: Hydrogen Oxidized F Presence Recent Iro Stunted or	ined Leave ined 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed F	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained As (C3) Geomorphic Potential Shallow Aquital FAC-Neutral Telescope Paised Ant Model	rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3) est (D5) unds (D6) (LRR A)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visil Sparsely Veget Field Observation	dric soil indicated indicated Concerns:	cators: um of one is al Imagery (B' ave Surface (I	required; 7) 38)	check all that app Water-Sta 1, 2, 4A ai Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted on Other (Exp	ined Leave and 4B) (B11) vertebrates Sulfide Odo Rhizosphero of Reduccion Reduction Stressed Folain in Ren	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained As (C3) Geomorphic Potential Shallow Aquital FAC-Neutral Telescope Paised Ant Model	rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sition (D2) rd (D3) est (D5) unds (D6) (LRR A)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visit Sparsely Veget Field Observatic Surface Water Pr Water Table Pres	dric soil indicated for soil indicated Concerns: concerns and concerns are soil indicated Concerns are soil indic	cators: um of one is al Imagery (B' ave Surface (I	required; 7) 38) N	check all that app Water-Sta 1, 2, 4A ai 1, 2, 4A ai Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave ined 4B) (B11) vertebrates Sulfide Odo Rhizosphere of Reduceon n Reduction Stressed Folain in Ren in (inches):	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Water-Stained As (C3) Geomorphic Potential Shallow Aquital FAC-Neutral Telescope Paised Ant Model	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sistion (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Depth (inches): Remarks: This area meets hyd HYDROLOGY Wetland Hydrol Primary Indicator Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visil Sparsely Veget Field Observation	dric soil indicated for soil indicated Concated	cators: um of one is al Imagery (B' ave Surface (I	required; 7) 38) N	check all that app Water-Sta 1, 2, 4A ai 1, 2, 4A ai Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave and 4B) (B11) vertebrates Sulfide Odo Rhizosphero of Reduccion Reduction Stressed Folain in Ren	(B13) or (C1) es along L I Iron (C4) on in Tilled Plants (D1	.iving Roots) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season Wa Saturation Visit Geomorphic Po Shallow Aquitai FAC-Neutral Te Paised Ant Mot Frost-Heave Ho	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imag.(C9) sistion (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)

WETLAND DETERMINATION DAT				-		_			
Project/Site: FWLE / I-5	City/Coun	ty:	Bellevue		Sampling E	_			
Applicant/Owner: Sound Transit	_		State		Sampling I	_			
Investigators: Lisa Danielski Dangelei F	ox		Section, Tov	vnship, Range	S 28	T 22 N	R 4	4 E	
Landform (hillslope, terrace, etc.): Hillslope	L	ocal Relief (co	ncave, conv	ex, none): Co	onvex		Slope	e(%) _	
Subregion (LRR): A Lat: 47.	394205	Long	-122.297	340	Dat	um: NA	AD83		
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 pe	ercent slopes			NWI Classifica	tion: PFC)1			
Are climatic / hydrologic conditions on the site typical for this time	ne of year?	Yes	No X	(If No, expl	ain in Rem	arks)			
Are Vegetation $\ ___$, Soil $\ ___$, Hydrology $\ ___$, significant	ntly disturbed?	γ Α	Are "Normal	Circumstances	" present?	Yes	Χ	No	
Are Vegetation, Soil, Hydrology, naturally	problematic?		(If needed,	explain any an	swers in Re	emarks.))		
SUMMARY OF FINDINGS - Attach a site map sl	howing sai	mplina poil	nt locatio	ns. transec	ts. impo	rtant f	eatur	es. et	c.
Hydrophytic Vegetation Present? Yes No X		1 01						,	
Hydric Soil Present? Yes X No	Is the S	ampled Area							
Wetland Hydrology Present? Yes X No	within a	Wetland?		Yes	X No		_		
Record precipitation in region. Area meets criteria for wetland	Absolute	Ige of Wetland Dominant	Indicator						
VEGETATION Use scientific names of plants.	% Cover	Species	<u>Status</u>	Dominance	Test Work	sheet:			
<u>Tree Stratum</u> (Plot size: <u>30 Ft</u>)				Number of E				2	(A)
Alnus rubra	45	_ <u>Y</u>	FAC	That Are OE	BL, FACW,	or FAC:			_ (A)
	45	=Total Cover		Total Numbe					
Shrub Stratum (Plot size: 50 Ft)	_		E4 014/	Species Acro	oss all Strat	a:	_	3	(B)
Oemleria cerasiformis	<u>5</u> 5	Y	FACW	Percent of D	ominant Sn	ecies		00 70/	(A (D)
Horb Stratum		=Total Cover		That Are OB				66.7%	_ (A/B)
Herb Stratum				Prevalence	Index Wor	ksheet:			
<u>Vine Stratum</u> (Plot size: <u>30 Ft</u>)				Total %	Cover of:		Multi	ply by:	
Hedera helix	2	Υ	FACU	OBL species		0	x 1 =	0	
	2	=Total Cover		FACW speci	es	5	x 2 =	10	
				FAC species	S	45	x 3 =	135	
				FACU speci		2	x 4 =	8	
				UPL species		0	x 5 =	0	
				Column Tota		52	(A)	153	(B)
				Preval	ence Index	= R/A=		2.94	
				Hydrophytic			tors:		
					est for Hydr			ation	
				X Dominar	-	-	rogo		
				X Prevaler	nce Index ≤	3.0			
					ogical Adar Remarks or				oorting
				X Problem	atic Hydrop	hytic Ve	egetatio	on (Ex	plain)
				Indicators o					
				Hydroph Vegetation I	nytic			-	
% Bare Ground in Herb Stratum				v egetation i	. cociil !	Yes _		No	X
Remarks: (Include photo numbers here or on a separate sheet.))								
Vegetation meets dominance and prevalence test.									

SOIL	Sampling Point:	SP 06-4-1
OIL	Sampling Point.	SP 00-4-1

Depth	Profile Descrip	ption: (Des		depth n	eeded to documer			confirm t	the absence of Indicators.)	
10 to 8 10VR 2 / 2 100	·	Color		%	Color (moist)			1 1002	Teyture	Remarks
8 to 22 (10 YR 3 / 1 60 2.5 Y 4/3 20 C M Gravely sandy loam 11 to 22 / 7 2.5 Y 5/6 20 C M Gravely sandy loam Gravely Sandy Loam Type: C-Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains. Hydric Soll Indicators: Histoc Epipedon (A2)			` ,		· 		Турс			Remains
11 to 22										
Type: C=Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains. ## Histo Soil Indicators: Histo Soil CAI Histo Explored (A2)		10YK	3/1	60						
Hydric Soil Indicators: Histosoi (A1) Histosoi (A2) Histo										
Histosoi (A1)	¹Type: C=Cond	centration, D)=Depletion,	RM=Red	duced Martix, CS=0	Covered or C	Coated	Sand Gra	ins. 4Location: PL=Pore Lining, M	l=Matrix.
Type:	Histosol (A1 Histic Epiper Black Histic Hydrogen St Depleted Be Thick Dark S Sandy Muck) don (A2) (A3) ulfide (A4) elow Dark Sur Surface (A12) cy Mineral (S1	1)		Stripped Matrix Loamy Mucky M Loamy Gleyed I Depleted Matrix Redox Dark Sui Depleted Dark S	(S6) Mineral (F1) (e Matrix (F2) (F3) rface (F6) Surface (F7)	xcept M	LRA 1)	2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12 Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation hydrology must be present,	2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A and 4B) Saturation (A3) Sati Crust (B11) Sediment Deposits (B1) Adjustic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag. (C9) Adjustic Invertebrates (B13) Adjustic Invertebrates (B13) Pressence of Reduced Iron (C4) Saturation Visible on Aerial Imag. (C9) Saturation Visible on Aerial Image. (C9) Saturation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Saturation Present? Yes No	Type: Depth (inche		if observe	d):					Hydric Soil Present? Yes	s X No
✓ High Water Table (A2) 1, 2, 4A and 4B) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imag. (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 Stressed Plants (D1) (LRR A) Paised 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: Water Table Present? YesX No Depth (inches): Water Table Present? YesX No Depth (inches): Water Table Present? YesX No Depth (inches): Geomorphic Present? YesX No Wetland Hydrology Present? YesX No Geomorphic Present? YesX No Geomorphic Present? <t< th=""><th>=</th><th></th><th></th><th>required</th><th></th><th>• .</th><th></th><th></th><th></th><th>um of two required)</th></t<>	=			required		• .				um of two required)
✓ Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imag.(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 Stressed Plants (D1) (LRR A) Paised 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 Depth (inches): Wetland Hydrology Present? Yes _ X No Water Table Present? Yes X No Depth (inches): 2" Wetland Hydrology Present? Yes _ X No Geomorphic Position (D2) Yes _ X No Depth (inches): 2" Wetland Hydrology Present? Yes _ X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	_	, ,					(B9) (exc	cept MLRA	Water-Stallied Leaves (Da	9) (MLRA 1, 2,
Water Marks (B1)					Salt Crust	(B11)			Drainage Patterns (R10)	
Sediment Deposits (B2)	_ `	,			Aquatic In	vertebrates (E	313)			(C2)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Prost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		, ,			Hydrogen	Sulfide Odor	(C1)			
Algal Mat or Crust (B4)					Oxidized I	Rhizospheres	along Li	iving Roots	(C3)	· ,
□ Iron Deposits (B5) □ Recent Iron Reduction in Tilled Soils (C6) □ FAC-Neutral Test (D5) □ Surface Soil Cracks (B6) □ Stunted or Stressed Plants (D1) (LRR A) □ Paised 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? Water Table Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Includes Ant Mounds (D6) (LRR A) Paised Ant Mounds (D	Algal Mat or	Crust (B4)			Presence	of Reduced In	ron (C4)			
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Iron Deposit	s (B5)			Recent Iro	n Reduction i	n Tilled	Soils (C6)		
□ Inundation Visible on Aerial Imagery (B7) □ Other (Explain in Remarks) □ Frost-Heave Hummocks (D7) □ Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No	Surface Soil	Cracks (B6)			Stunted o	r Stressed Pla	ants (D1)) (LRR A)		I RR A)
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes NoX Depth (inches): Water Table Present? YesX No Depth (inches): Saturation Present? YesX No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			ial Imagery (B	7)	Other (Ex	plain in Rema	rks)			•
Surface Water Present? Yes No Depth (inches): Water Table Present? YesX No Depth (inches): Saturation Present? YesX No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	=						•		1 Tost-fleave Humimocks (i	51)
Water Table Present? Yes X No Depth (inches): 10" Saturation Present? Yes X No Depth (inches): 2" Wetland Hydrology Present? Yes X No Depth (inches): 10" (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Field Observa	tions:								
Saturation Present? Yes X No Depth (inches): 2" Wetland Hydrology Present? Yes X No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water	Present?	Yes		No X Dept	h (inches):				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table P	resent?	Yes	X	No Dept	h (inches):		10"		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pre	esent?	Yes	X	No Dept	h (inches):		2"	Wetland Hydrology Present?	Yes X No
	(includes capil	llary fringe)								
Remarks:	Describe Recorde	ed Data (stre	am gauge, mo	onitoring w	ell, aerial photos, prev	vious inspection	ons), if a	vailable:		
Remarks:										
	Remarks:									

WETLAND DETERMINAT	TION DATA			ountains,	Valleys, and	Coast Reg	ion		
Project/Site: FWLE / I-5		City/Count	ty:	Bellevue	Sar	npling Date:	3/11/201	14	
Applicant/Owner: Sound Transit				State:	WA Sai	mpling Point:	SP 06-4	4-2	
Investigators: Lisa Danielski	Dangelei Fox			Section, Tow	nship, Range S	28 T 22 N	N R4	·E	
Landform (hillslope, terrace, etc.): Depression		Lo	ocal Relief (co	ncave, conv	ex, none): Conca	ave	Slope	(%)	
Subregion (LRR): A	Lat: 47.394	1177	Long	: -122.2973	307	Datum: I	VAD83		
Soil Map Unit Name: Arents, Alderwood materi	al, 6 to 15 perce	ent slopes			NWI Classification	:			
Are climatic / hydrologic conditions on the site typic	al for this time o	f year?	Yes	No X	(If No, explain	in Remarks)			
Are Vegetation, Soil, Hydrology	, significantly	disturbed?		Are "Normal (Circumstances" pr	esent? Yes	3 X	No	
Are Vegetation, Soil, Hydrology	, naturally pro	oblematic?		(If needed,	explain any answe	rs in Remark	3.)	_	
SUMMARY OF FINDINGS - Attach a s	ite map sho	wing sar	npling poi	nt locatio	ns, transects,	important	featur	es, et	c.
Hydrophytic Vegetation Present? Yes	No X								
Hydric Soil Present? Yes	No X		ampled Area						
Wetland Hydrology Present? Yes	No X	within a	Wetland?		Yes	No X			
Remarks: Record rainfall during previous month (6.5 inches wetland indicators. Paired upland plot for Wetland		over 3 inch	nes in the wee	k prior to we	tland delineation).	Area does n	ot meet ci	riteria fo	or
VEGETATION Use scientific names of	f plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance Tes	t Warkshaat			
Tree Stratum (Plot size: _30 Ft)				Number of Dom				
Alnus rubra		80	Υ	FAC	That Are OBL, F			2	(A)
		80	=Total Cover		Total Number of	Dominant			
Shrub Stratum (Plot size: 50 Ft)				Total Number of Species Across			4	(B)
Oemleria cerasiformis	•	10	Υ	FACU					_ ` ′
Rubus spectabilis		10	Υ	FAC	Percent of Domi That Are OBL, F		·!	50.0%	(A/B)
		20	=Total Cover			<u> </u>			
Herb Stratum					Prevalence Inde				
Vine Stratum (Plot size: 30 Ft)				Total % Cov	er of:	$\frac{\text{Multip}}{\text{x 1 =}}$	oly by:	
Rubus armeniacus		10	Υ	FACU	OBL species	0	_ ^ ' _ x 2 =	0	—
		10	=Total Cover		FACW species	90	_ x2=_ x3=	270	
					FAC species				
					FACU species	0	_ x 4 = _ _ x 5 =	08	—
					UPL species				—
					Column Totals:	110	_(A) _	350	(B)
						e Index = B/A		3.18	
					Hydrophytic Vec				
					<u> </u>	or Hydrophyt	c Vegeta	tion	
					Dominance				
					Prevalence	Index ≤ 3.0			
						al Adaptation arks or on a s			orting
					Problematic	Hydrophytic	√egetatio	n (Exp	plain)
					Indicators of hy must be presen				
					Hydrophytic Vegetation Pres			No >	Y
% Bare Ground in Herb Stratum Remarks: (Include photo numbers here or on a sep	arate choot \					168			<u> </u>
This sample does not meet any vegetative indicate	,								
This sample does not meet any vegetative illulcati	J.J.								

SOIL	Sampling Point: SP 06-4-2	

Profile Description: (Describe to the depti	n needed to document	the indica		onfirm 1	the absence of Indicators.)	
Dehiii	% Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 5 10YR 3 / 2 10			71		FINE SANDY LOAM	
5 to 10 10YR 3/3 93		7	С	M	Gravely Sandy Loam	
10 to 18 10YR 4 / 4 10		<u> </u>	 .		Very Gravely sandy loam	
¹ Type: C=Concentration, D=Depletion, RM=		overed or C	Coated S	and Gra		M=Matrix
<u> </u>	,					
Hydric Soil Indicators:	Candy Baday (05	•			Indicators for Problematic H	ydric Soils: 3
Histosol (A1)	Sandy Redox (S5	,			2 cm Muck (A10)	
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S	•	voont MI	οΛ 1)	Red Parent Material (TF2)	
Hydrogen Sulfide (A4)			ACCPL IVIL	VA 1)	Very Shallow Dark Surface (Ti	=12)
Depleted Below Dark Surface (A11)	Loamy Gleyed Ma Depleted Matrix (Other (Explain in Remarks)	
Thick Dark Surface (A12)	Redox Dark Surfa	•				
Sandy Mucky Mineral (S1)	Depleted Dark Su	` '			³ Indicators of hydrophytic vegeta	tion and wetland
Sandy Gleyed Matrix (S4)	Redox Depressio	` '			hydrology must be present, unless disturbed or problematic.	
		(. 0)				
Restrictive Layer (if observed):						
Туре:	-				Hydric Soil Present? Y	es No X
Depth (inches):					,	
HYDROLOGY Wetland Hydrology Indicators:		۸				
Primary Indicators (minimum of one is requi			(50) (Secondary Indicators (mini	mum of two required)
Surface Water (A1)	Water-Stain 1, 2, 4A and	ned Leaves (d 4B)	(B9) (exce	pt MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	Salt Crust (•			4A, and 4B)	
Saturation (A3) Water Marks (B1)	Aquatic Inve	,	313)		Drainage Patterns (B10	
Sediment Deposits (B2)	Hydrogen S	ulfide Odor	(C1)		☐ Dry-Season Water Tabl	` '
Drift Deposits (B3)	_ , ,	nizospheres	` '	ing Roots	Saturation Visible on Ae	0 ()
Algal Mat or Crust (B4)	Presence of	f Reduced Ir	on (C4)		Geomorphic Position (D	02)
Iron Deposits (B5)	Recent Iron	Reduction i	n Tilled S	oils (C6)	Shallow Aquitard (D3)	
Surface Soil Cracks (B6)	☐ Stunted or S	Stressed Pla	ants (D1)	(LRR A)	FAC-Neutral Test (D5)	·) (LDD A)
Inundation Visible on Aerial Imagery (B7)		ain in Rema			Paised Ant Mounds (D6	
Sparsely Vegetated Concave Surface (B8)			-,		Frost-Heave Hummock	S (D7)
Field Observations:						
Surface Water Present? Yes	No X Depth	(inches):				
Water Table Present? Yes		(inches):				
Saturation Present? Yes		(inches):			Wetland Hydrology Present?	Yes No_X_
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previo	ous inspection	ons), if av	ailable:		
Remarks:						

Project/Site:	FWLE / I-5			DATA FORM - City/Cour		Bellevue		pling Date:		14	
Applicant/Owne		ansit				State		npling Point:			
Investigators:	Lisa Daniels		Dano	gelei Fox			vnship, Range S 2				
Landform (hillslo	-		`				/ex, none): Conve		Slope		
Subregion (LRR	•	<u></u>		t: 47.393882	,	: -122.298	· ———	Datum: 1			
Soil Map Unit Na		s Alderwood r		o 15 percent slopes		122.200	NWI Classification:		17 1200		
•				this time of year?	Yes	No X		-			
,	Ū		,,	gnificantly disturbed			Circumstances" pre	,	, X	No	
-		-	_	aturally problematic?					-		
-						•	explain any answer		,	4	
	OF FINDING egetation Prese			nap showing sa	impling poi	nt locatio	ns, transects,	ımportant	teatur	es, et	C.
Hydric Soil Pre	ŭ	-		X	Compled Area						
Wetland Hydro		Yes _	X No		Sampled Area a Wetland?		Yes X	No			
Remarks:		Yes	X No						_		
Record rainfall	during previous t located in Wet			oruary and over 3 incetland 6-4).	ches in the wee	ek prior to we	etland delineation).	This plot mee	ts wetlan	ıd	
							1				
VEGETATIO	ON Use sci	entific name	es of plan	nts. Absolute % Cover	Dominant Species	Indicator Status	Dominance Tes	t Worksheet	_		
Tree Stratum	<u>1</u>						Number of Domi				
Shrub Stratu	<u>m</u> (Plot	: size: <u>50 Ft</u>)				That Are OBL, F	•		1	(A)
Rubus s	pectabilis	. 0.20. <u>00 . c</u>	/	20	Υ	FAC	Total Number of	Dominant			
				20	=Total Cover	-	Species Across a			2	(B)
Herb Stratun	<u>n</u>										_
Vine Stratum	<u>1</u> (Plot	size: 30 Ft	١				Percent of Domir That Are OBL, F		:	50.0%	(A/B)
Hedera	•	. 3126. 3010	,	85	Υ	FACU	Prevalence Inde	v Workshoo	4-		
Rubus a	rmeniacus			2	N	FACU	Total % Cov			oly by:	
				87	=Total Cover		OBL species	0	x 1 =	0 O	
							FACW species	0	x 2 =	0	
							FAC species	20	x 3 =	60	
							FACU species	87	x 4 =	348	
							UPL species	0	x 5 =	0	
							Column Totals:	107	(A)	408	(B)
							Prevalence	e Index = B/A	=	3.81	
							Hydrophytic Veg	etation Indic	ators:		=
							Rapid Test for	or Hydrophyti	c Vegeta	tion	
							Dominance ⁻	Γest > 50%			
							Prevalence I	ndex ≤ 3.0			
							Morphologica data in Rema				orting
							X Problematic	Hydrophytic '	√egetatio	n (Ex	plain)
İ							Indicators of hyd must be present				
% Bare Ground	lin Harb Stratu	~					Hydrophytic Vegetation Pres			No 2	x

Remarks: (Include photo numbers here or on a separate sheet.)

H.helix is acting as an aggressive invasive plant causing problematic vegetation. Vegetation does not meet dominance or prevalence test, however is considered hydrophytic because hydric soil and hydrology are present.



DepthN	∕latrix			Redox Fea	atures			
(inches) Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
) to 8 10YR	2/2	100					FINE SANDY LOAM	
3 to 16 2.5Y	4/2	85	10YR 4/6	15	С	M	Very gravelly loamy sand	
Гуре: C=Concentration, D=D	epletion, I	RM=Redu	uced Martix, CS=C	overed or Co	oated S	Sand Grain	ns. 4Location: PL=Pore Linir	ng, M=Matrix.
ydric Soil Indicators: Histosol (A1)			✓ Sandy Redox (S	5)			Indicators for Problematic	Hydric Soils: 3
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	e (A11)		Stripped Matrix (Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf Depleted Dark S Redox Depression	(S6) lineral (F1) (ex Matrix (F2) (F3) face (F6) surface (F7)	xcept ML	.RA 1)	2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface Other (Explain in Remarks) Indicators of hydrophytic vege hydrology must be present, unless disturbed or problemat	etation and wetland
Restrictive Layer (if o Type: Depth (inches): marks: his area meets hydric soil indicat			ox (S5).				Hydric Soil Present?	Yes X No
	tors:							
Vetland Hydrology Indicat		required;	check all that appl	y)			Secondary Indicators (m	ninimum of two require
Vetland Hydrology Indicat		required;	Water-Stai	ined Leaves (E	B9) (exc	ept MLRA	Secondary Indicators (m	· · · · · · · · · · · · · · · · · · ·
Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		required;	Water-Stai	ined Leaves (End 4B)	B9) (exc	ept MLRA	<u>·</u>	· · · · · · · · · · · · · · · · · · ·
Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		required;	Water-Stai 1, 2, 4A an Salt Crust	ined Leaves (End 4B)	, ,	ept MLRA	Water-Stained Leave	es (B9) (MLRA 1, 2,
Vetland Hydrology Indicat Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2)		required;	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv	ined Leaves (End 4B) (B11) vertebrates (B	13)	ept MLRA	Water-Stained Leave 4A, and 4B)	es (B9) (MLRA 1, 2,
Vetland Hydrology Indicat Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		required;	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv	ined Leaves (End 4B) (B11) vertebrates (B')	13) (C1)		Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T	es (B9) (MLRA 1, 2, 310) able (C2)
Vetland Hydrology Indicate Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		required;	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (Chizospheres a	:13) (C1) along Liv		Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T	es (B9) (MLRA 1, 2, B10) able (C2) Aerial Imag.(C9)
Vetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		required;	Water-Stai 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence of	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (CR) Rhizospheres a of Reduced Iro	13) (C1) along Liv on (C4)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water To Saturation Visible on	es (B9) (MLRA 1, 2, B10) able (C2) Aerial Imag.(C9)
Vetland Hydrology Indicate Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		required;	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (Chizospheres a of Reduced Iron Reduction in	i13) (C1) along Liv on (C4) n Tilled S	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T. Saturation Visible on Geomorphic Position	es (B9) (MLRA 1, 2, B10) able (C2) Aerial Imag.(C9) a (D2)
Wetland Hydrology Indicate Primary Indicators (minimum ✓ 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)	of one is		Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ined Leaves (End 4B) (B11) vertebrates (Bright Sulfide Odor (Carlos pheres a cof Reduced Iron Reduction in Stressed Plan	:13) (C1) along Liv on (C4) n Tilled S nts (D1)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3)	es (B9) (MLRA 1, 2, 310) able (C2) Aerial Imag.(C9) n (D2) 3)
Vetland Hydrology Indicate Primary Indicators (minimum 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 In	of one is	·)	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (Chizospheres a of Reduced Iron Reduction in	:13) (C1) along Liv on (C4) n Tilled S nts (D1)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D	es (B9) (MLRA 1, 2, 310) able (C2) Aerial Imag.(C9) n (D2) 3) 5) (D6) (LRR A)
Vetland Hydrology Indicate Primary Indicators (minimum 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)	of one is	·)	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ined Leaves (End 4B) (B11) vertebrates (Bright Sulfide Odor (Carlos pheres a cof Reduced Iron Reduction in Stressed Plan	:13) (C1) along Liv on (C4) n Tilled S nts (D1)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (es (B9) (MLRA 1, 2, 310) able (C2) Aerial Imag.(C9) n (D2) 3) 5) (D6) (LRR A)
Vetland Hydrology Indicate Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave	of one is	·)	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or	ined Leaves (End 4B) (B11) vertebrates (Bright Sulfide Odor (Carlos pheres a cof Reduced Iron Reduction in Stressed Plan	:13) (C1) along Liv on (C4) n Tilled S nts (D1)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (es (B9) (MLRA 1, 2, 310) able (C2) Aerial Imag.(C9) n (D2) 3) 5) (D6) (LRR A)
Vetland Hydrology Indicate Primary Indicators (minimum 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 In Sparsely Vegetated Concave	magery (B7	(88) XN	Water-Stai 1, 2, 4A an 1, 2, 4A an Salt Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror Stunted or Other (Exp	ined Leaves (End 4B) (B11) vertebrates (Bright Sulfide Odor (Carlos pheres a cof Reduced Iron Reduction in Stressed Plan	:13) (C1) along Liv on (C4) n Tilled S nts (D1)	ving Roots	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (es (B9) (MLRA 1, 2, 310) able (C2) Aerial Imag.(C9) n (D2) 3) 5) (D6) (LRR A)
Vetland Hydrology Indicate Primary Indicators (minimum ✓ 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 In Sparsely Vegetated Concave	magery (B7 e Surface (B	XN	Water-Stain 1, 2, 4A and 1, 2,	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (Chizospheres and Reduced Iron Reduction in Stressed Plandlain in Remark	in 13) in C1) along Liv on (C4) in Tilled 8 ints (D1) rks)	ving Roots (Soils (C6)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (Frost-Heave Hummo	es (B9) (MLRA 1, 2, B10) able (C2) Aerial Imag.(C9) (D2) B) (D6) (LRR A) ocks (D7)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ir Sparsely Vegetated Concave Field Observations: Surface Water Present?	magery (B7 e Surface (B	(88) XN	Water-Stain 1, 2, 4A and 1, 2,	ined Leaves (End 4B) (B11) vertebrates (B') Sulfide Odor (Chizospheres a por Reduced Iron Reduction in Stressed Plan Plain in Remark	in (C1) along Liv on (C4) in Tilled S ints (D1) rks)	ving Roots (Soils (C6) (LRR A)	Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on Geomorphic Position Shallow Aquitard (D3 FAC-Neutral Test (D Paised Ant Mounds (es (B9) (MLRA 1, 2, B10) able (C2) Aerial Imag.(C9) (D2) B) (D6) (LRR A) ocks (D7)

WETL	AND DE	TERMINA	TION	DATA	A FORM - V	Western M	ountains,	, Valleys, and	Coast	Regio	on		
Project/Site: FWLE / I	I-5				City/Coun	ty:	Bellevue	Sar	npling [Date: 3	3/11/20	14	
Applicant/Owner: Sou	und Transit						State	: WA Sa	mpling I	Point:	SP 06-	5-2	
Investigators: Lisa Da	anielski		Dan	gelei Fo	X		Section, Tov	vnship, Range S	28	T 22 N	R 4	ŀΕ	
Landform (hillslope, terrac	ce, etc.):	Hillslope			L	ocal Relief (co	ncave, conv	vex, none): Conve	ЭХ		Slope	∌ (%)	
Subregion (LRR): A			Lat	t: 47.3	93876	Long	-122.2982	246	Dat	tum: NA	₹D83		
Soil Map Unit Name:	Arents, Alde	erwood mater	rial, 6 to	o 15 per	rcent slopes			NWI Classification	: Non	ie			
Are climatic / hydrologic c	onditions on	the site typi	cal for t	this time	e of year?	Yes	No X	(If No, explain	in Rem	arks)			
Are Vegetation, S	Soil, ⊢	lydrology	, sig	gnifican	tly disturbed?	A	Are "Normal	Circumstances" pr	esent?	Yes	Χ	No	
Are Vegetation, S	Soil, H	lydrology _	, na	turally p	problematic?		(If needed,	explain any answe	rs in Re	emarks.))		
SUMMARY OF FIN	DINGS -	Attach a s	site m	ap sh	owing sar	npling poi	nt locatio	ns, transects,	impo	rtant f	eatur	es, et	c.
Hydrophytic Vegetation	Present?	Yes	No	X	_				-				
Hydric Soil Present?		Yes	No	Χ		ampled Area							
Wetland Hydrology Pres	sent?	Yes	No	Χ	within a	Wetland?		Yes	No	Х			
Remarks: Area does not meet wetle delineation). Paired upla						h (6.5 inches i	n February a	and over 3 inches i	n the w	eek prio	r to we	tland	
VEGETATION_ Us	e scientifi	c names o	f plan	its.	Absolute	<u>Dominant</u>	Indicator						
Tree Stratum					<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance Tes					
Shrub Stratum	/DI	50 FI	,					Number of Dom That Are OBL, F				1	(A)
Rubus spectabilis	(Plot size:	50 Ft)		40	Y	FAC						_
- Trabas opeolabilis					40	=Total Cover		Total Number of Species Across				2	(B)
Herb Stratum								Percent of Domi	nant Sr	ecies		EO 00/	(A (D)
Vine Stratum	(Plot size:	30 Ft)					That Are OBL, F				50.0%	_ (A/B)
Hedera helix					55	Υ	FACU	Prevalence Inde	ex Wor	ksheet:			
llex aquifulium					5	N	FACU	Total % Cov	er of:		Multij	ply by:	
					60	_=Total Cover		OBL species		0	x 1 =	0	
								FACW species		0	x 2 =	0	
								FAC species		40	x 3 =	120	
								FACU species		60	x 4 =	240	
								UPL species		0	x 5 =	0	
								Column Totals:		100	(A)	360	(B)
								Prevalenc	e Index	= B/A=		3.60	
								Hydrophytic Veg	jetatior	n Indica	tors:		
								Rapid Test	or Hydr	ophytic	Vegeta	ition	
								Dominance	Test >	50%			
								Prevalence	Index≤	3.0			
								Morphologic					orting
								Problematic	Hydror	ohytic Ve	egetatio	on (Exp	olain)
								Indicators of hy must be presen					
0/ Page 0	244							Hydrophytic Vegetation Pres		Yes		No X	
% Bare Ground in Herb S Remarks: (Include photo r		e or on a se	narate (sheet)									<u> </u>
This sample does not me		·											

	ption: (Desc	Matrix	aeptn need	iea to ao	cument	Redox F		confirm ti	ne abse	nce of indicators.)			
Depth (inches)	Color	(moist)	%	Color (r	noist)	%	Type ¹	Loc ²		Texture	F	Remarks	
0 to 19	10YR	2/2	100	Non					FINE SA	ANDY LOAM			
¹Type: C=Cond						vered or	Coated S	Sand Grain		² Location: PL=Pore	Lining, M=Mat	trix.	
Hydric Soil In			_	7					Ind	icators for Problem	<u>atic Hydric S</u>	oils: 3	
Histosol (A1	•		L	_ ,	edox (S5	•				2 cm Muck (A10)			
Histic Epipe Black Histic			L		Matrix (S	•	except ML	DA 1)		Red Parent Material (T	F2)		
Hydrogen S	` '			Loamy G	•	. ,	(except ivit	INA I)		Very Shallow Dark Sur	face (TF12)		
	low Dark Surf	ace (A11)			d Matrix (Other (Explain in Rema	arks)		
	Surface (A12)	,		Ξ '	ark Surfa	,			3				
Sandy Muck	y Mineral (S1))		Depleted	d Dark Su	ırface (F7)				Indicators of hydrophytic hydrology must be prese		wetland	
Sandy Gleye	ed Matrix (S4)			Redox D	epressio	ns (F8)				unless disturbed or probl			
h													
	ve Layer (i	fobserve	d):										
Type:	`								Hydri	ic Soil Present?	Yes	No	Х
Depth (inche	es):										-		 -
Remarks: This sample doe	s not meet any	y hydric soil i	ndicators.										
HYDROLOGY	Y												
Wotland Hyd	rology India	notoma											
Wetland Hyd: Primary Indica			s required: cl	heck all th	at annly	')				0	- (l-l		1)
Surface Wat		01 0110 10	, roquirou, oi				(B9) (exc	ont MI DA	-	Secondary Indicator	•		rea)
High Water	, ,				2, 4A and		(D3) (EXC	ept MEIXA		Water-Stained L 4A, and 4B)	eaves (B9) (ML	RA 1, 2,	
Saturation (/				Sa	It Crust (311)				Drainage Patteri	ne (P10)		
☐ Water Marks	,			Aqı	uatic Inve	ertebrates	(B13)			Dry-Season Wat	, ,		
Sediment De	eposits (B2)				•	ulfide Odo	, ,			Saturation Visible	` '	a.(C9)	
Drift Deposit	ts (B3)						-	ving Roots	(C3)	Geomorphic Pos	· ·	3 ()	
Algal Mat or	Crust (B4)					f Reduced	, ,	(00)		Shallow Aquitare	d (D3)		
Iron Deposit	s (B5)						in Tilled S	` ,		FAC-Neutral Tes	st (D5)		
	Cracks (B6)						lants (D1)	(LRR A)		Paised Ant Mou	nds (D6) (LRR A	A)	
	isible on Aeria		•	☐ Oth	ner (Expl	ain in Rem	arks)			Frost-Heave Hu	mmocks (D7)		
	getated Conca	ave Surrace	(B8)										
Field Observa		V	NI.	V	D	(* l)							
Surface Water Water Table F		Yes Yes			-	(inches):	-						
Saturation Pre		Yes			-	(inches): (inches):			Wet	tland Hydrology Pres	sent? Yes	s No	_X_
(includes capil		103			Бериг	(ii ici ico).	·			, 0,			
Describe Record		ım gauge, m	onitoring well,	aerial photo	os, previo	ous inspec	tions), if a	vailable:					
Remarks: Moist, but not sa	turated This s	ample does	not meet anv	hvdrology i	ndicators								
		р.о чооо		, 51097 11		-							

WETLAND DETERMINA				ountains,	Valleys, and	d Coast	t Regi	on		
Project/Site: FWLE / I-5	C	ity/Count	y:	Bellevue		ampling [Date: _	3/12/20	14	
Applicant/Owner: Sound Transit				State:	WAS	Sampling	Point:	SP 06-	5-3	
Investigators: Lisa Danielski	Dangelei Fox			Section, Tow	nship, Range _	S 28	T 22 N	R 4	ŀΕ	
Landform (hillslope, terrace, etc.): Hillslope		L	ocal Relief (co	ncave, conv	ex, none): Cor	ıvex		Slope	∌ (%)	
Subregion (LRR): A	Lat: 47.39396	66	Long	-122.2974	38	Dat	um: N	₹D83		
Soil Map Unit Name: Arents, Alderwood mate	rial, 6 to 15 percent	slopes			NWI Classification	on:				
Are climatic / hydrologic conditions on the site typi	ical for this time of y	ear?	Yes	No X	(If No, explain	in in Rem	arks)			
Are Vegetation, Soil, Hydrology	, significantly di	sturbed?	P	re "Normal (Circumstances"	present?	Yes	Х	No	
Are Vegetation, Soil, Hydrology _	, naturally probl	ematic?		(If needed,	explain any ansv	wers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach a s	site map showi	ng sar	npling poi	nt location	ns, transect:	s, impo	rtant t	eatur	es, et	C.
Hydrophytic Vegetation Present? Yes	No X									
Hydric Soil Present? Yes	No X		ampled Area							
Wetland Hydrology Present? Yes	No X	within a	Wetland?		Yes	No	Х			
Remarks: Record precipitation in region. This site does not (merged with 6-4)	meet the criteria to	be class	fied as a wetla	and and is ar	n upland plot. P	aired upla	and plot	for Wet	land 6-	5
VEGETATION Use scientific names of) DIALIIS	solute	Dominant	Indicator						
<u>Tree Stratum</u> (Plot size: 30 Ft	. <u>%</u>	<u>Cover</u>	<u>Species</u>	<u>Status</u>	Dominance T					
Alnus rubra	- <i>)</i>	10	Υ	FAC	Number of Do That Are OBL				1	(A)
		10	=Total Cover							_
Shrub Stratum			_		Total Number Species Acros				2	(B)
Herb Stratum					·			_		_ ` ′
Vine Stratum (Plot size: 30 Ft	١				Percent of Do				50.0%	(A/B)
Rubus armeniacus	.)	80	Υ	FACU		•				
		80	=Total Cover		Prevalence In		ksneet:			
			-		Total % C	over of:	0	x 1 =	oly by: 0	
					OBL species		0	x 2 =	0	
					FACW species	S	10	x 3 =	30	
					FAC species FACU species		80	x 4 =	320	—
					UPL species	s	0	x 5 =	0	
							90	(A)	350	(B)
					Column Totals	S:	90	(A) _	330	(b)
					Prevalei	nce Index	x = B/A =		3.89	
				•	Hydrophytic V	egetatio	n Indica	tors:		
					Rapid Tes	t for Hyd	rophytic	Vegeta	ition	
					Dominano	e Test >	50%			
					Prevalenc	e Index ≤	3.0			
					Morpholog					orting
					data in Re			•	,	nlain)
					Indicators of I	, ,	•	Ū	` .	. ,
					must be pres	ent, unles				
% Bare Ground in Herb Stratum					Hydrophy Vegetation Pr		Yes	ı	No >	X
Remarks: (Include photo numbers here or on a se	parate sheet.)									
This sample does not meet any vegetative indica	itors.									

	ption: (Desc	Matrix	aeptn ne	eeaea to a	ocument	Redox F		confirm ti	ne absence of indicators.)		
Depth (inches)	Color	(moist)	%	Color	(moist)	%	Type ¹	Loc ²	Texture	Remark	ks
0 to 17	10YR	4/3	100	No	ne				Gravelly Loamy Sand	_	
¹Type: C=Cond	centration, D	=Depletion,	RM=Rec	luced Marti	x, CS=Co	overed or	Coated S	Sand Grai	ns. ² Location: PL=Pore Lining	y, M=Matrix.	
Thick Dark : Sandy Muck Sandy Gley Restricti Type: Ro Depth (inch:	don (A2) (A3) ulfide (A4) elow Dark Surface (A12) cy Mineral (S1 ed Matrix (S4) ve Layer (i ck es):17"	f observe		Strippe Loamy Loamy Deplete Redox Redox	Gleyed Ma ed Matrix (Dark Surfa ed Dark Su Depressio	666) neral (F1) (atrix (F2) F3) ace (F6) urface (F7) ns (F8)			Indicators for Problematic I 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (Other (Explain in Remarks) Indicators of hydrophytic veget hydrology must be present, unless disturbed or problematic	TF12) ation and wetland	
Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation	rology Indiators (minimulators (minimulators (Minimulators (M2)) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) //sible on Aericagetated Concations:	um of one is	37) (B8)	V 1	Vater-Stair, 2, 4A and alt Crust (I quatic Inversional Particular States of the Communication	ned Leaves d 4B) B11) ertebrates (ulfide Odo	(B13) r (C1) s along Liv lron (C4) in Tilled S	ving Roots	Secondary Indicators (min Water-Stained Leaves 4A, and 4B) Drainage Patterns (B1 Dry-Season Water Ta Saturation Visible on A Geomorphic Position of Shallow Aquitard (D3) FAC-Neutral Test (D5 Paised Ant Mounds (D1) Frost-Heave Hummoo	6 (B9) (MLRA 1, 2 0) ble (C2) Aerial Imag.(C9) (D2))	
Water Table F		Yes			-	(inches):		15	Wetland Hydrology Present?	Yes	No_X
Saturation Pre		Yes		No X	⊔eptn	(inches):		14	. rougha riyarology r resent:		
Describe Record	ed Data (strea								meet primary hydrologic indicators.		

WETLAND DETERMINATION DAT	TA FORM - V	Vestern M	ountains,	Valleys, and C	oast Reg	ion		
Project/Site: FWLE / I-5	City/Count	y:	Bellevue	Sam	pling Date:	3/11/20	14	
Applicant/Owner: Sound Transit			State	: WA Sam	pling Point:	SP 06-	-5-4	
Investigators: Lisa Danielski Dangelei	Fox		Section, Tov	vnship, Range S 2	8 T 22 N	I R4	↓E	
Landform (hillslope, terrace, etc.): Depression	Lo	ocal Relief (co	ncave, conv	ex, none): Concav	/e	Slope	∋(%)	
Subregion (LRR): A Lat: 47	7.393963	Long	: -122.2974	140	Datum: N	- IAD83	_	
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 p	ercent slopes			NWI Classification:	PFO1			
Are climatic / hydrologic conditions on the site typical for this tir		Yes	No X	(If No, explain ir	n Remarks)			
Are Vegetation, Soil, Hydrology, signification	antly disturbed?		Are "Normal	 Circumstances" pre	sent? Yes	X	No	
Are Vegetation, Soil, Hydrology, naturally	-			explain any answers				
SUMMARY OF FINDINGS - Attach a site map s	showing san	nplina poi	•			,	es. et	c.
Hydrophytic Vegetation Present? Yes X No				,, .				
Hydric Soil Present? Yes X No	Is the Sa	ampled Area						
Wetland Hydrology Present? Yes X No	within a	Wetland?		Yes X	No			
Remarks: Record rainfall during previous month (6.5 inches in February wetland. Located in Wetland 6-5 (merged with Wetland 6-4).	and over 3 inch	es in the wee	k prior to we	tland delineation).	This plot mee	ets the c	riteria fo	or a
VEGETATION — Use scientific names of plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test	Workshoot	-		
Tree Stratum (Plot size: 30 Ft)	<u>70 00101</u>	<u> </u>	<u> </u>	Number of Domir				
Alnus rubra	50	Υ	FAC	That Are OBL, FA			2	(A)
	50	=Total Cover		Tatal November of f	D ! 4			
Shrub Stratum				Total Number of I Species Across a			3	(B)
Herb Stratum (Plot size: 5 Ft)								_ ` ′
Carex obnupta	10	Υ	OBL	Percent of Domin That Are OBL, FA			66.7%	(A/B)
	10	=Total Cover						
Vine Stratum (Plot size: 30 Ft)				Prevalence Inde				
Rubus armeniacus	30	Y	FACU	Total % Cove	er of: 10	-	ply by: 10	
	30	=Total Cover		OBL species		_ x 1 = _		
		_		FACW species	0	x 2 =	0	
				FAC species	50	x 3 =	150	
				FACU species	30	x 4 =	120	
				UPL species	0	x 5 =	0	
				Column Totals:	90	(A)	280	(B)
				Prevalence	Index = B/A	=	3.11	
				Hydrophytic Vege	etation Indic	ators:		
				Rapid Test fo	r Hydrophyti	c Vegeta	ation	
				X Dominance T	est > 50%			
				Prevalence Ir	ndex ≤ 3.0			
				Morphologica data in Rema				orting
				Problematic I	-lydrophytic \	/egetatio	on (Ex	plain)
				Indicators of hyd must be present				
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Prese	ent? Yes	х	No	
Remarks: (Include photo numbers here or on a separate sheet	.)							
Vegetation meets the dominance test for hydrophytic vegetation	on.							

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Danth	Matrix	-		Redox Fea			he absence of Indicators.)	
Depth (inches) Color (r		%	Color (moist)			Loc ²	 Texture	Remarks
0 to 7 10YR	2/2	100			700		Gravelly sandy lam	
7 to 16 2.5Y	5/3	80	10YR 4/6	20			LOAMY SAND	
¹Type: C=Concentration, D=					nated S	and Grai		ning M=Matrix
Type: 0-00ncentration, b-	Depiction,	T (WI-T COUC	cu martix, oo-o	Overed or oc	Jaica O	and Oran	ins. Eocation: 1 E-1 orc E	ming, m-matrix.
Hydric Soil Indicators:			_				Indicators for Problema	tic Hydric Soils: 3
Histosol (A1)			Sandy Redox (St	5)			2 cm Muck (A10)	
Histic Epipedon (A2)			Stripped Matrix (Red Parent Material (TF	2)
Black Histic (A3)			Loamy Mucky Mi	ineral (F1) (exc	cept MLF	RA 1)	Very Shallow Dark Surfa	•
Hydrogen Sulfide (A4)			Loamy Gleyed M	latrix (F2)			✓ Other (Explain in Remark	, ,
Depleted Below Dark Surface	ce (A11)		Depleted Matrix (-,
Thick Dark Surface (A12)			Redox Dark Surf	, ,			³ Indicators of hydrophytic v	egetation and wetland
Sandy Mucky Mineral (S1)			Depleted Dark Si				hydrology must be present	.,
Sandy Gleyed Matrix (S4)			Redox Depression	ons (F8)			unless disturbed or proble	matic.
☐ Restrictive Layer (if	obsorvos	1/•						
_	onsei vec	<i>1</i>).						
Type: Depth (inches):							Hydric Soil Present?	Yes X No
Remarks:								
12102001								
		required; ch	heck all that apply	y)			Secondary Indicators	(minimum of two required)
Wetland Hydrology Indica Primary Indicators (minimum Surface Water (A1)		required; ch	Water-Stair	ned Leaves (B	39) (exce	pt MLRA	Water-Stained Le	(minimum of two required) aves (B9) (MLRA 1, 2,
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2)		required; ch	Water-Stair	ned Leaves (B id 4B)	39) (exce	pt MLRA		, , ,
Wetland Hydrology Indica Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3)		required; ch	Water-Stair 1, 2, 4A an	ned Leaves (B id 4B) (B11)	, ,	pt MLRA	Water-Stained Le	aves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		required; ch	Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve	ned Leaves (B ld 4B) (B11) rertebrates (B1	3)	pt MLRA	Water-Stained Le	aves (B9) (MLRA 1, 2,
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		required; ch	Water-Stair 1, 2, 4A and Salt Crust (Aquatic Invo	ned Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C	3)		Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate	aves (B9) (MLRA 1, 2,
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		required; ch	Water-Stair 1, 2, 4A an Salt Crust (Aquatic Invi	ned Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C	3) C1) llong Livi		Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9)
Wetland Hydrology Indica Primary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		required; ch	Water-Stain 1, 2, 4A and Salt Crust (Aquatic Invi	ned Leaves (B d 4B) (B11) vertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iro	3) C1) Ilong Livi n (C4)	ng Roots	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2)
Wetland Hydrology Indica Primary Indicators (minimun 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)		required; ch	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c	ned Leaves (B d 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron n Reduction in	3) C1) llong Livi n (C4) Tilled So	ng Roots bils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit	aves (B9) (MLRA 1, 2, is (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3)
Wetland Hydrology Indica Primary Indicators (minimur 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)	n of one is		Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or	ned Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron n Reduction in Stressed Plan	3) C1) Ilong Livi In (C4) Tilled So	ng Roots bils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Wetland Hydrology Indica Primary Indicators (minimur 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	n of one is	7)	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or	ned Leaves (B d 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron n Reduction in	3) C1) Ilong Livi In (C4) Tilled So	ng Roots bils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concave	n of one is	7)	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or	ned Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron n Reduction in Stressed Plan	3) C1) Ilong Livi In (C4) Tilled So	ng Roots bils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concav Field Observations:	n of one is Imagery (B7 ve Surface (B	7) 38)	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron n Reduction in Stressed Plan Idain in Remark	3) C1) Ilong Livi In (C4) Tilled So	ng Roots bils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Wetland Hydrology Indica Primary Indicators (minimur ☐ 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 Concavers Surface Water Present?	Imagery (B7 re Surface (B	7) 38)	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Inv. Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark	3) C1) Ilong Livi n (C4) Tilled So tts (D1) (ng Roots bils (C6) LRR A)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concav Field Observations: Surface Water Present? Water Table Present?	Imagery (B7 ve Surface (E Yes Yes	7) 38) No No	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan lain in Remark (inches):	3) C1) Ilong Livi n (C4) Tilled So ats (D1) (ng Roots bils (C6) LRR A)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound Frost-Heave Hum	aves (B9) (MLRA 1, 2, is (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)
Wetland Hydrology Indicators (minimum 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 Concave Field Observations: Surface Water Present? Water Table Present?	Imagery (B7 ve Surface (E Yes Yes	7) 38)	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark	3) C1) Ilong Livi n (C4) Tilled So ats (D1) (ng Roots bils (C6) LRR A)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)
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 Concav Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Imagery (B7 ve Surface (E Yes Yes Yes	7) 38) No _X No _X No	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark (inches): (inches):	3) C1) Ilong Livi In (C4) Tilled So Its (D1) (Ss) Su	ng Roots bils (C6) LRR A) 4" rface	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound Frost-Heave Hum	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concav Field Observations: Surface Water Present? Water Table Present?	Imagery (B7 ve Surface (E Yes Yes Yes	7) 38) No _X No _X No	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark (inches): (inches):	3) C1) Ilong Livi In (C4) Tilled So Its (D1) (Ss) Su	ng Roots bils (C6) LRR A) 4" rface	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound Frost-Heave Hum	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) cion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concav Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Imagery (B7 ve Surface (E Yes Yes Yes	7) 38) No _X No _X No	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark (inches): (inches):	3) C1) Ilong Livi In (C4) Tilled So Its (D1) (Ss) Su	ng Roots bils (C6) LRR A) 4" rface	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound Frost-Heave Hum	aves (B9) (MLRA 1, 2, is (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)
Wetland Hydrology Indica Primary Indicators (minimur 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 Concav Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Imagery (B7 ve Surface (E Yes Yes Yes	7) 38) No _X No _X No	Water-Stain 1, 2, 4A an Salt Crust (Aquatic Invi Hydrogen S Oxidized R Presence c Recent Iron Stunted or Other (Expl	med Leaves (B id 4B) (B11) rertebrates (B1 Sulfide Odor (C thizospheres a of Reduced Iron Reduction in Stressed Plan Ilain in Remark (inches): (inches):	3) C1) Illong Livi In (C4) Tilled So Its (D1) (Ss) Su	ng Roots bils (C6) LRR A) 4" rface	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posit Shallow Aquitard FAC-Neutral Test Paised Ant Mound Frost-Heave Hum	aves (B9) (MLRA 1, 2, s (B10) r Table (C2) on Aerial Imag.(C9) tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7)

		TERMINAT	ION DATA	FORM - \		ountains, Bellevue	Valleys, an	d Coas	_		14	
Project/Site: FWLE				City/Couri	.y				_			
	ound Transit		lan Malah			State:		Sampling	-			
	Danielski	T (0)	lan Welch			•	nship, Range		T 22 N			
Landform (hillslope, terr	ace, etc.):	Toe of Slope			`	·	ex, none): Co			Slope	·(%)	
Subregion (LRR): A			Lat: _47.30	58142	Long	-122.2947			tum: N	AD83		
Soil Map Unit Name:		erwood materia					NWI Classificat	-				
Are climatic / hydrologic	conditions or	n the site typica	al for this time	of year?	Yes	No X	(If No, expla	ain in Rem	arks)			
Are Vegetation,			-	-	A	re "Normal (Circumstances'	present?	Yes	X	No _	
Are Vegetation,	Soil, I	Hydrology	_, naturally p	roblematic?		(If needed,	explain any ans	wers in R	emarks.	.)		
SUMMARY OF FI			-	owing sar	npling poi	nt locatio	ns, transec	s, impo	rtant	featur	es, et	C.
Hydrophytic Vegetatio Hydric Soil Present?	n Present?	Yes X										
Wetland Hydrology Pr	acant?	Yes	No X		ampled Area Wetland?		Yes	No	v			
Remarks:	esent:	Yes	No X				162		X	=		
Upland sample plot earnormal in January (3.7 VEGETATION— U	inches).This	site does not m	neet the criteri				Dominance			all near	y below	
Tree Stratum							Number of D	ominant S	pecies		•	(4)
Shrub Stratum	(Plot size:	: <u>50 Ft</u>)					That Are OB	L, FACW,	or FAC	:	2	_ (A)
Rubus spectabilis	5			10	Y	FAC	Total Numbe	r of Domin	ant			
				10	=Total Cover		Species Acro	ss all Stra	ta:		3	(B)
Herb Stratum	(Plot size	: <u>5 Ft</u>)					Dansant of D		!			_
Ranunculus repe	ns			50	Υ	FAC	Percent of Do That Are OBI				66.7%	(A/B)
-				50	=Total Cover		Prevalence I	ndex Wor	ksheet			
Vine Stratum	(Plot size	: 30 Ft)					Total % (Konoci		ply by:	
Rubus armeniacu	-			10	Υ	FACU	OBL species	JOVCI OI.	0	x 1 =	0	
				10	=Total Cover		FACW species		0	x 2 =	0	
							•		60	x 3 =	180	
							FACUL analis		10	x 4 =	40	
							FACU specie	es	0	x 5 =	0	
							UPL species					
							Column Tota	s:	70	(A)	220	(B)
							Prevale	ence Index	$\zeta = B/A =$	=	3.14	
							Hydrophytic '	Vegetatio	n Indica	ators:		
							Rapid Te	st for Hyd	rophytic	Vegeta	ition	
							Dominan	ce Test >	50%			
							Prevalen	ce Index ≤	3.0			
								gical Ada emarks or				orting
							Problema	atic Hydro	ohytic V	egetation	on (Exp	olain)
							Indicators of must be pre-					
	0						Hydroph Vegetation P	•	Yes	Х	No	
% Bare Ground in Hert Remarks: (Include photo		re or on a sens	arate sheet \						163			_
Vegetation meets the o		•	,									

Profile Description: (Describe to	-	ded to document			onfirm th	ne absence of Indicators.)	
Depth Matrix			Redox Feat				
(inches) Color (moist)		Color (moist)	<u> %</u> T	ype 1	Loc ²	Texture	Remarks
0 to 10 10YR 2 / 1	100	None	. <u> </u>			very gravely sandy loam	
10 to 22 2.5YR 3 / 2	97	10YR 4/6	30 (2	М	Gravely loamy sand	
¹ Type: C=Concentration, D=Deplet	on, RM=Reduc	ced Martix, CS=Co	overed or Co	ated S	and Grair	ns. 4_ocation: PL=Pore L	ining, M=Matrix.
Hydric Soil Indicators: Histosol (A1)		Sandy Redox (S	5)			Indicators for Problema	tic Hydric Soils: 3
Histic Epipedon (A2)		Stripped Matrix (S	•			2 cm Muck (A10)	
Black Histic (A3)	Ē	Loamy Mucky Mi	•	cept ML	.RA 1)	Red Parent Material (TF	,
Hydrogen Sulfide (A4)		Loamy Gleyed M		•	,		,
Depleted Below Dark Surface (A11) [Depleted Matrix (Other (Explain in Remark	ks)
Thick Dark Surface (A12)		Redox Dark Surfa	•			3	
Sandy Mucky Mineral (S1)		Depleted Dark Su	urface (F7)			Indicators of hydrophytic v hydrology must be present	egetation and wetland
Sandy Gleyed Matrix (S4)		Redox Depression	ns (F8)			unless disturbed or proble	
Restrictive Layer (if obser	ved):						
Туре:						Heatric Ocil Bos conto	V N- V
Depth (inches):						Hydric Soil Present?	Yes No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of on	e is required; c	heck all that apply	()			Secondary Indicators	(minimum of two required)
Surface Water (A1)		Water-Stair	ned Leaves (B	9) (exc	ept MLRA	<u>-</u>	aves (B9) (MLRA 1, 2,
High Water Table (A2)		1, 2, 4A and				4A, and 4B)	
Saturation (A3)		Salt Crust (•			Drainage Patterns	s (B10)
Water Marks (B1)		= .	ertebrates (B1	•		Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)			Sulfide Odor (C	,		Saturation Visible	on Aerial Imag.(C9)
Drift Deposits (B3)			hizospheres al	_	ring Roots ((C3) Geomorphic Posit	tion (D2)
Algal Mat or Crust (B4)		=	f Reduced Iron	, ,	(00)	Shallow Aquitard	(D3)
Iron Deposits (B5)			Reduction in		` ,	FAC-Neutral Test	(D5)
Surface Soil Cracks (B6)		☐ Stunted or	Stressed Plant	ts (D1)	(LRR A)	Paised Ant Mound	ds (D6) (LRR A)
Inundation Visible on Aerial Imager	y (B7)	Other (Expl	ain in Remarks	s)		Frost-Heave Hum	mocks (D7)
Sparsely Vegetated Concave Surfa	ce (B8)						
<u>Field Observations:</u>							
	Yes No		(inches):				
Motor Toble Dro	Yes No	X Depth	(inches):				
	Yes No	X Depth	(inches):	-		Wetland Hydrology Prese	ent? Yes No_X_
Saturation Present? (includes capillary fringe)	Yes No				-7-1-1-	Wetland Hydrology Prese	ent? Yes No_X_
Saturation Present?	Yes No			s), if av	railable:	Wetland Hydrology Prese	ent? Yes <u>No_X</u>

5			TERMINA	ATION DAT					, Valleys, a		_		4.4	
Project/Site:	FWLE / I-5				_ City	//Coun	ty:	Bellevue		Sampling [-			
Applicant/Owner		d Transit						State		Sampling				
Investigators:	Lisa Dan			lan Welsh				-	vnship, Range		T 22 N			
Landform (hillslo	ope, terrace	, etc.):	Hillslope			L	ocal Relief (co	ncave, conv	/ex, none): C	oncave		Slope	e(%) _	
Subregion (LRR	:): A			Lat: 47	.366344		Long	: -122.295	397	Dat	um: N	AD83		
Soil Map Unit Na	ame: Al	derwood	gravelly san	dy loam, 15 to	30 perc	ent slo	pes		NWI Classifica	ation:				
Are climatic / hy	drologic cor	nditions or	n the site typ	oical for this tir	ne of yea	ar?	Yes	No X	(If No, exp	lain in Rem	arks)			
Are Vegetation	, Soi	il, H	Hydrology _	, significa	ntly dist	urbed?	P	Are "Normal	Circumstances	s" present?	Yes	X	No	
Are Vegetation	, Soi	il, H	Hydrology _	, naturall	y probler	natic?		(If needed,	explain any ar	nswers in Re	emarks	.)		
SUMMARY	OF FIND	INGS -	Attach a	site map s	howin	g sar	npling poi	nt locatio	ns, transec	cts, impo	rtant	featui	es, et	c.
Hydrophytic Ve			Yes X	-						· •				
Hydric Soil Pre	esent?		Yes	No X	Is	the S	ampled Area							
Wetland Hydro	ology Prese	nt?	Yes	No X	w	ithin a	Wetland?		Yes	No	X	_		
Remarks: Below-normal r point on down s					oes not n	neet th	e criteria to be	e classified a		in January	(3.7 inc	hes).Up	land sa	mple
VEGETATIO	N – Use	scientifi	ic names	of plants.	Abso % C	<u>olute</u> over	Dominant Species	Indicator Status	Dominance	Test Work	sheet:			
Tree Stratum	<u>1</u>								Number of I					
Shrub Stratu	<u>m</u> ()	Plot size:	50 Ft)					That Are Of			:	2	(A)
Sambuci	us racemosa			- /		10	Υ	FACU	Total Number	er of Domin	ant			
						10	=Total Cover		Species Acr				3	(B)
Herb Stratum	<u>1</u> (1	Plot size:	5 Ft)										_
Urtica di				- <i>'</i>		3	Υ	FAC	Percent of D That Are OB			: —	66.7%	(A/B)
						3	=Total Cover		Prevalence	Index Wor	kshoot			
Vine Stratum	<u>) </u>	Plot size:	30 Ft)						Cover of:	KSHEEL		alv by	
Rubus s	pectabilis	. 101 3120	3011	_ /		25	Υ	FAC			0	x 1 =	oly by: 0	
						25	=Total Cover		OBL species		0	x 2 =	0	
					_		_		FACW spec		28	x3=	84	
									FAC species		10	x 4 =	40	
									FACU spec	·	0	x 5 =	0	
									UPL species	S				(D)
									Column Tota	als:	38	(A)	124	(B)
									Preva	lence Index	= B/A=	=	3.26	
									Hydrophytic	Vegetation	n Indic	ators:		 -
									Rapid T	est for Hydi	ophytic	: Vegeta	ation	
									X Domina	nce Test >	50%			
									Prevale	nce Index ≤	3.0			
										logical Adap Remarks or				orting
									Problem	natic Hydrop	hytic √	egetatic	n (Exp	plain)
									Indicators of must be pre	of hydric soi esent, unles				
% Baro Cround	lin Harb Ct	ratum							Hydrop Vegetation	•	Yes	х	No	
% Bare Ground Remarks: (Included)			re or on a se	eparate sheet	.)									
Vegetation med														
) · · · F	, 5:										

Profile Descrip	· ·	e depth nee	ded to document			onfirm th	ne absence of Indicators.)	
Depth	Matrix	0/	Color (moint)		Features 1	1002	Touture	Domarka
(inches)	Color (moist)	%	Color (moist)		Type ¹	LOC 2	Texture	Remarks
0 to 20	10YR 2 / 1	100	None				FINE SANDY LOAM	
¹ Type: C=Conc	entration, D=Depletion	n, RM=Reduc	ced Martix, CS=Co	overed or	Coated S	and Grain	ns. ² Location: PL=Pore Lining, M	=Matrix.
Hydric Soil In	dicators:						Indicators for Problematic Hyd	lric Soils: 3
Histosol (A1))		Sandy Redox (S	5)				ire bons.
Histic Epiped	don (A2)		Stripped Matrix (S6)			2 cm Muck (A10)	
Black Histic	(A3)		Loamy Mucky Mi	neral (F1)	(except MLF	RA 1)	Red Parent Material (TF2)	2)
Hydrogen Su	ılfide (A4)		Loamy Gleyed M	atrix (F2)			✓ Very Shallow Dark Surface (TF12✓ Other (Explain in Remarks)	<u>2)</u>
Depleted Be	low Dark Surface (A11)		Depleted Matrix ((F3)			Other (Explain in Nemarks)	
	Surface (A12)		Redox Dark Surf	` ,			³ Indicators of hydrophytic vegetation	n and wetland
	y Mineral (S1)	L	Depleted Dark S	` ')		hydrology must be present,	
Sandy Gleye	d Matrix (S4)	L	Redox Depression	ons (F8)			unless disturbed or problematic.	
Restrictiv	e Layer (if observ	eq).						
Type:	c Layer (ii observ	cuj.						
Depth (inche	es):						Hydric Soil Present? Yes	s No _X
Remarks:							1	
This sample does	s not meet any hydric soil	l indicators; soi	Is do not meet thick	dark surfa	ce.			
HYDROLOGY	ζ							
Watland Had	ology Indiantows							
	ology Indicators: tors (minimum of one	is required: o	heck all that apply	v)				
		io roquirou, c			s (B9) (exce	nt MI DA	Secondary Indicators (minimi	<u> </u>
Surface Wat	` '		1, 2, 4A an		s (ba) (exce	pt WLKA	Water-Stained Leaves (B9 4A, and 4B)	i) (MLRA 1, 2,
Saturation (A	` '		Salt Crust ((B11)				
Water Marks			Aquatic Inv	ertebrates	(B13)		Drainage Patterns (B10)	(C2)
Sediment De	• •		Hydrogen S	Sulfide Odd	or (C1)		Dry-Season Water Table (Saturation Visible on Aeria	•
Drift Deposit	. , ,		Oxidized R	hizosphere	es along Livi	ng Roots ((C3) Geomorphic Position (D2)	5
Algal Mat or	Crust (B4)		Presence of	of Reduced	I Iron (C4)		Shallow Aquitard (D3)	
Iron Deposits	s (B5)		Recent Iron	Reduction	n in Tilled So	oils (C6)	FAC-Neutral Test (D5)	
Surface Soil	Cracks (B6)		Stunted or	Stressed F	Plants (D1) (LRR A)	Paised Ant Mounds (D6) (LRR A)
Inundation V	isible on Aerial Imagery ((B7)	Other (Expl	lain in Rem	narks)		Frost-Heave Hummocks (I	D7)
Sparsely Ve	getated Concave Surface	e (B8)						
Field Observa	tions:							
Surface Water	Present? Ye	es No	X Depth	(inches):				
Water Table P	resent? Ye	es No	X Depth	(inches):				
Saturation Pre	sent? Ye	s No	X Depth	(inches):			Wetland Hydrology Present?	Yes No_X_
(includes capil	lary fringe) ed Data (stream gauge, r	nanitarina wall	acrial abotas arevi	aua inana	tions) if our	silahla:		
Describe Records	eu Data (Stream gauge, 1	nonitoring well,	aeriai priotos, previ	ous mspec	ciioris), ii ava	allable.		
Remarks:								

	ND DETERMINATION					-		_		14	
Project/Site: FWLE / I-5	T 14		//Count	ıy	Bellevue		Sampling D	_			
Applicant/Owner: Sound					State		Sampling F	_			
Investigators: Lisa Danie		Welch				vnship, Range		Γ 22 N	R 4		
Landform (hillslope, terrace, e	· —		L	`	•	/ex, none): Co			Slope	e(%) 	
Subregion (LRR): A	La	at: 47.366491		Long:	-122.2950			ım: NA	D83		
Soil Map Unit Name: Arei	nts, Alderwood material, 6	to 15 percent sl	opes			NWI Classifica	ation:				
Are climatic / hydrologic cond	itions on the site typical for	this time of year	ar?	Yes	No X	(If No, expl	lain in Rema	ırks)			
Are Vegetation, Soil	, Hydrology, s	ignificantly dist	urbed?	Α	re "Normal	Circumstances	" present?	Yes	Х	No	
Are Vegetation, Soil	, Hydrology, n	aturally probler	natic?		(If needed,	explain any an	swers in Re	marks.)			
SUMMARY OF FINDIN	NGS - Attach a site n	nap showin	g sar	npling poi	nt locatio	ns, transec	ts, impor	tant f	eatur	es, etc	c.
Hydrophytic Vegetation Pres	sent? Yes X No										
Hydric Soil Present?	Yes No			ampled Area							
Wetland Hydrology Present	? Yes No	X	ithin a	Wetland?		Yes	No	X	=		
Remarks: Below-normal rainfall in Nove sample plot in suspicious Ph				pectively). Ra	iinfall nearly	below normal i	in January (3.7 inch	es). Up	oland	
VEGETATION Use s	cientific names of pla	1115	olute over	Dominant Species	Indicator Status	Dominance	Tost Works	shoot:			
Tree Stratum		<u></u>				Number of D					
Shrub Stratum (PI	ot size: <u>50 Ft</u>)					That Are OE				3	(A)
Rubus spectabilis	,		10	Υ	FAC	Total Numbe	er of Domina	ant			
			10	=Total Cover		Species Acro				3	(B)
Herb Stratum (PI	ot size: 5 Ft)										_
Phalaris arundinacea	,		80	Υ	FACW	Percent of D That Are OB				100.0%	(A/B)
Urtica dioica			2	Y	FAC						
		=	82	=Total Cover		Prevalence		sneet:			
Vine Stratum						-	Cover of:	0	x 1 =	oly by: 0	
						OBL species	•	80	x2=	160	
						FACW speci			_		
						FAC species	•		x 3 =_	36	
						FACU speci		0	x 4 =	0	
						UPL species		0	x 5 =_	0	
						Column Tota	als:	92 ((A) _	196	(B)
						Preval	lence Index	= <i>B/A</i> =		2.13	
						Hydrophytic	Vegetation	Indica	tors:		
						Rapid To	est for Hydro	ophytic '	Vegeta	ition	
						X Domina	nce Test > 5	0%			
						X Prevaler	nce Index ≤	3.0			
							logical Adap Remarks or o				orting
						Problem	atic Hydrop	hytic Ve	getatio	n (Exp	olain)
							of hydric soil esent, unless				
% Bare Ground in Herb Strat	um					Hydroph Vegetation I	•	Yes	X	No	
Remarks: (Include photo num		sheet.)								-	
Vegetation meets the domination			hytic v	egetation.							

	ption: (Desc	Matrix	aeptn need	iea to ao	cument	Redox F		confirm tr	ne abser	ice of indicators.)			
Depth (inches)	Color	(moist)	%	Color (ı	moist)	%	Type ¹	Loc ²		Texture	F	Remarks	
0 to 20	10YR	2/1	100	Non			71		FINE SA	NDY LOAM			
¹Type: C=Cond						overed or	Coated S	Sand Grain		2Location: PL=Pore I	_ining. M=Mat	rix.	
					,						J ,		
Hydric Soil In			_	7					<u>Indi</u>	cators for Problema	atic Hydric S	oils: 3	
Histosol (A1	•		L	- ,	Redox (S5	•				2 cm Muck (A10)			
Histic Epipe					Matrix (S	56) neral (F1) ((oveent MI	DA 1)		Red Parent Material (Ti	F2)		
Hydrogen S	` '			_ ,	Gleyed Ma	` '	(except ivit	.NA I)		Very Shallow Dark Surf	ace (TF12)		
	low Dark Surfa	ace (A11)	F		d Matrix (. ,				Other (Explain in Rema	rks)		
	Surface (A12)	` '		- '	ark Surfa	•			3 ,				
Sandy Muck	y Mineral (S1)			Deplete	d Dark Su	urface (F7)				ndicators of hydrophytic ydrology must be preser		wetland	
Sandy Gleye	ed Matrix (S4)			Redox E	Depressio	ns (F8)				nless disturbed or proble			
			n.										
	ve Layer (if	observe	d):										
Type:									Hydri	c Soil Present?	Yes	No	X
Depth (inche Remarks:	es):										-		
Damp soils. This	sample does	not meet any	hydric soil inc	dicators; de	oes not m	neet thick o	lark surfac	e.					
HYDROLOGY	Y												
Wetland Hyd	rology India	eators.											
Primary Indica			required; ch	neck all th	nat apply	/)				Secondary Indicators	e (minimum of	two requir	red)
Surface Wat	-					ned Leaves	(B9) (exc	ept MLRA	_		`		eu)
High Water	, ,				2, 4A and		(==) (===			Water-Stained Lo	eaves (B9) (IVIL	KA 1, 2,	
Saturation (A3)			☐ Sa	alt Crust (B11)				Drainage Patterr	ns (B10)		
☐ Water Marks	s (B1)			L Aq	uatic Inve	ertebrates	(B13)			Dry-Season Wat	, ,		
Sediment De	eposits (B2)			`	•	ulfide Odo	, ,			Saturation Visible	` '	g.(C9)	
Drift Deposit	ts (B3)					-	_	ving Roots	(C3)	Geomorphic Pos	sition (D2)		
Algal Mat or						f Reduced Reduction	, ,	Soile (C6)		Shallow Aquitard	I (D3)		
☐ Iron Deposit						Stressed P		, ,		FAC-Neutral Tes	st (D5)		
	Cracks (B6) /isible on Aeria	l Imagan, (F	97)			ain in Rem	, ,	(LIXIX A)		Paised Ant Mour	, , ,	()	
	getated Conca	0 , (,	Ot	ilei (Expi	alli ili Relli	iaiks)			Frost-Heave Hur	nmocks (D7)		
Field Observa	_		(20)										
Surface Water		Yes	No	Х	Denth	(inches):							
Water Table F		Yes			-	(inches):							
Saturation Pre	esent?	Yes			-	(inches):			Wet	land Hydrology Pres	ent? Yes	No	_X_
(includes capi	llary fringe)												
Describe Record	ed Data (strea	m gauge, mo	onitoring well,	aerial phot	os, previo	ous inspec	tions), if av	/ailable:					
Remarks:													
This sample doe	s not meet any	hydrology ii	ndicators.										ļ

WETLAND D	ETERMINATI	ON DATA	FORM -	Western M	ountains,	Valleys, a	nd Coast	Regi	on		
Project/Site: FWLE / I-5			City/Coun	ty:	Bellevue		Sampling D	oate:	1/28/20	14	
Applicant/Owner: Sound Trans	it				State	WA	Sampling I	Point:	SP 12-	-1-4	
Investigators: Lisa Danielski		lan Welsh		;	Section, Tow	nship, Range	S 28	T 22 N	R 4	4 E	
Landform (hillslope, terrace, etc.):	Toe of Slope		L	ocal Relief (co	ncave, conv	ex, none): C	oncave		Slope	e(%)	
Subregion (LRR): A		Lat: 47.36	66846	Long	: -122.2952	243	Dat	um: N	AD83		
Soil Map Unit Name: Alderwoo	d gravelly sandy lo	oam. 15 to 3	0 percent slo	ppes		NWI Classifica	ation:				
Are climatic / hydrologic conditions	, ,	-	•	Yes	No X	(If No, exp	lain in Rem	arks)			
Are Vegetation, Soil			-	·	Are "Normal (` Circumstances		,	Х	No	
Are Vegetation, Soil						explain any ar					
SUMMARY OF FINDINGS	- Attach a site	e map she	owing sar	mplina poi:	•				•	es. et	c.
Hydrophytic Vegetation Present?		No X		- 		,	, -				
Hydric Soil Present?	Yes	No X	Is the S	ampled Area							
Wetland Hydrology Present?	Yes X I	No	within a	Wetland?		Yes	No	X			
Remarks: Below-normal rainfall in November upslope and east of Wetland 12-1					wetland.	below normal	in January (3.7 inc	hes). S	ample p	olot
VEGETATION Use scient	ific names of p	olants.	Absolute % Cover	Dominant Species	Indicator Status	Dominonoo	Test Work	chooti			
Tree Stratum			70 0010.	<u> </u>	<u> otatao</u>		Dominant S				
Shrub Stratum							BL, FACW,		:	1	(A)
	o.					-					
Athyrium filix-femina	e: <u>5 Ft</u>)		5	Y	FAC	Total Number Species Acr				2	(B)
- Addynam mix termina				=Total Cover		'					_ ` ′
<u>Vine Stratum</u> (Plot siz	e: 30 Ft)			=10tal Cover		Percent of E That Are OE			_	50.0%	(A/B)
Rubus ursinus	,		5	Υ	FACU	Prevalence	Index Wor	ksheet	:		
			5	=Total Cover		Total %	Cover of:		Multi	ply by:	
						OBL species	s	0	x 1 =	0	
						FACW spec	ies	0	x 2 =	0	
						FAC species		5	x 3 =	15	
						FACU spec		5	x 4 =	20	
						UPL species		0	x 5 =	0	
						Column Tota		10	(A)	35	(B)
						Preva	lence Index	= B/A=	:	3.50	
						Hydrophytic	: Vegetation	n Indica	ators:		
						Rapid T	est for Hydr	ophytic	Vegeta	ation	
						Domina	nce Test >	50%			
						Prevale	nce Index ≤	3.0			
							logical Adar Remarks or				oorting
						Problen	natic Hydrop	hytic V	egetatio	on (Ex	plain)
							of hydric soil esent, unles				
% Para Ground in Hosh Stratus						Hydrop Vegetation	•	Yes		No 2	x
% Bare Ground in Herb Stratum Remarks: (Include photo numbers I	nere or on a separ	rate sheet.)									
This sample does not meet any ve											

Profile Descri	ption: (Descr	ibe to the	depth need	led to document	the indi	cator or	confirm tl	he absence of Indicators.)	
Depth		Matrix				eatures			
(inches)	Color (ı	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 11	10YR	2/1	100					FINE SANDY LOAM	
11 to 17	10YR	4 / 1	100					gravely Sandy Loam	
¹Type: C=Con	centration, D=	Depletion,	RM=Reduc	ed Martix, CS=Co	vered or	Coated	Sand Grai	ns. ² Location: PL=Pore Lining, N	/I=Matrix.
Hydric Soil In	1)			Sandy Redox (S5				Indicators for Problematic Hyd	dric Soils: 3
Histic Epipe Black Histic				Stripped Matrix (S Loamy Mucky Mir	,	(except M	LRA 1)	Red Parent Material (TF2)	0)
Hydrogen S		oo (A11)		Loamy Gleyed Ma				✓ Very Shallow Dark Surface (TF1.✓ Other (Explain in Remarks)	2)
	elow Dark Surfa Surface (A12)	ce (ATT)		Depleted Matrix (Redox Dark Surfa	,				
	ky Mineral (S1)			Depleted Dark Sun	` '			Indicators of hydrophytic vegetatio hydrology must be present,	n and wetland
Sandy Gley	ed Matrix (S4)			Redox Depressio	ns (F8)			unless disturbed or problematic.	
Restricti	ve Layer (if	observe	d):						
Type:								Hydric Soil Present? Yes	s No X
Depth (inch Remarks:	es):							1	
	es not meet any	hydric soil ii	ndicators. **So	oils too saturated fo	r redox**				
HYDROLOG	Y								
Wetland Hyd Primary Indica	0.0		required; ch	neck all that apply	')			Secondary Indicators (minim	num of two required)
Surface Wa	. ,			Water-Stair		s (B9) (exc	cept MLRA	Water-Stained Leaves (B	• • • • • • • • • • • • • • • • • • • •
High Water	` ,			1, 2, 4A and				☐ 4A, and 4B)	
Saturation (A3)			Salt Crust (,	(D12)		Drainage Patterns (B10)	
Water Mark	` ,			Hydrogen S		` '		Dry-Season Water Table	(C2)
	eposits (B2)			Oxidized R		` '	vina Roots	(C3) Saturation Visible on Aeria	al Imag.(C9)
Drift Deposi	` '			Presence o			viilg r tooto	Geomorphic Position (D2))
Algal Mat or	, ,			Recent Iron		, ,	Soils (C6)	Shallow Aquitard (D3)	
Iron Deposi				Stunted or			, ,	FAC-Neutral Test (D5)	
	l Cracks (B6)	Imagan, (P	7)			` '	(LIXIVA)	Paised Ant Mounds (D6)	,
	Visible on Aerial egetated Concav	• • • • • • • • • • • • • • • • • • • •	•	Other (Expl	ain in Ren	iaiks)		Frost-Heave Hummocks (.[D7)
Field Observa	ations:								
Surface Wate	r Present?	Yes	No	X Depth	(inches):				
Water Table F	Present?	Yes	X_ No	Depth	(inches):		13"		
Saturation Pro		Yes	X No	Depth	(inches):		12"	Wetland Hydrology Present?	Yes _X_ No
(includes capi		n dalide mo	nitoring well	aerial photos, previo	nus inener	tions) if a	vailable:		
Describe Record	ieu Data (Stream	rgauge, me	mitoring weil,	aeriai priotos, previo	лиз шэрес	ons), ii a	valiable.		
Remarks:									
Wetland hydrolo	gy meets indica	tors for satu	ıration (A3).						

WETLAND DETERMINATION DATA	A FORM - V	Western M	ountains	, Valleys, and C	Coast Reg	ion		
Project/Site: FWLE / I-5	City/Coun	ty:	Bellevue	Sam	pling Date:	1/28/201	14	
Applicant/Owner: Sound Transit			State	: WA Sam	npling Point:	SP 12-	1-5	
Investigators: Lisa Danielski Ian Welsh		;	Section, Tov	vnship, Range S 2	28 T 22 N	R4	· E	
Landform (hillslope, terrace, etc.): Hillslope	L	ocal Relief (co	ncave, conv	vex, none): Conve	x	Slope	:(%)	
Subregion (LRR): A Lat: 47.3	366811	Long	-122.2952	289	Datum: N	- NAD83	_	
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 per	rcent slopes		-	NWI Classification:	_			
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	No X	(If No, explain in	n Remarks)		-	
Are Vegetation, Soil, Hydrology, significan	itly disturbed?		re "Normal	 Circumstances" pre	sent? Yes	s X	No	
Are Vegetation, Soil, Hydrology, naturally				explain any answer		-	. –	
SUMMARY OF FINDINGS - Attach a site map sh	owing sar	mpling poi	nt locatio	ns, transects,	<u>important</u>	featur	es, et	c.
Hydrophytic Vegetation Present? YesNoX								
Hydric Soil Present? Yes No X		ampled Area						
Wetland Hydrology Present? Yes No X	within a	Wetland?		Yes	No X			
Remarks: Upland paired sample plot less than 10ft upslope of 12-1-4. Be Rainfall nearly below normal in January (3.7 inches).				cember (3.79 and 1	66 inches, r	espective	∍ly).	
VEGETATION — Use scientific names of plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test	t Worksheet	-		
<u>Tree Stratum</u> (Plot size: <u>30 Ft</u>)	·	 -	<u></u>	Number of Domi				
Tsuga heterophylla	30	Υ	FACU	That Are OBL, F			2	(A)
	30	=Total Cover		Total Number of	Dominant			
Shrub Stratum (Plot size: _50 Ft)				Species Across a			5	(B)
Rubus spectabilis	10	Υ	FAC					_ ` `
	10	=Total Cover		Percent of Domin		٠. '	40.0%	(A/B)
Herb Stratum (Plot size: 5 Ft)								_
Dryopteris expansa	5	Υ	FACW	Prevalence Inde	x Workshee	t:		
Polystichum munitum	5	Y	FACU	Total % Cove		Multip		
	10	=Total Cover		OBL species	0	_ x 1 =	0	
Vine Stratum (Plot size: _30 Ft)				FACW species	5	_ x 2 =	10	
Rubus ursinus	10	Υ	FACU	FAC species	10	x 3 =	30	
	10	=Total Cover		FACU species	45	x 4 =	180	
				UPL species	0	x 5 =	0	
				Column Totals:	60	(A)	220	(B)
				Prevalence	e Index = B/A:	=	3.67	
				Hydrophytic Veg	etation Indic	ators:		
				Rapid Test fo	or Hydrophyti	c Vegeta	tion	
				Dominance 1	Γest > 50%			
				Prevalence I	ndex ≤ 3.0			
				Morphologica data in Rema				orting
				Problematic	Hydrophytic \	√egetatio	n (Ex	plain)
				Indicators of hyd				
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Pres		1	No)	X
Remarks: (Include photo numbers here or on a separate sheet.)						<u> </u>		=
This sample does not meet dominance or prevalence test.								

Depth	Matrix	acpui neeu	ica to acculit	Redox Fe		U	he absence of Indicators.)	
	(moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0 to 7 10YR	3/2	100	. ,				LOAMY SAND	
7 to 17 2.5Y	4/3	98	10yr 4/6	2	С	M	LOAMY SAND	
¹Type: C=Concentration, D=	=Depletion,	RM=Reduc		Covered or 0	Coated S	Sand Grain	ns. ² Location: PL=Pore L	ining, M=Matrix.
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surfa Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark S Depleted Dark Redox Depres	x (S6) Mineral (F1) (6 I Matrix (F2) ix (F3) urface (F6) s Surface (F7)	except MI	.RA 1)	Indicators for Problema 2 cm Muck (A10) Red Parent Material (TF Very Shallow Dark Surfa Other (Explain in Remar	2) ace (TF12) ks) egetation and wetland t,
Restrictive Layer (if Type: Depth (inches): Remarks: Shovel Refusal at 17" due to de			pes not meet any	hydric soil ind	icators.		Hydric Soil Present?	Yes No _X
HYDROLOGY Wetland Hydrology Indic Primary Indicators (minimu		required; ch	neck all that ap	pply)			Secondary Indicators	(minimum of two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca			1, 2, 4A Salt Cru Aquatic I Hydroge Oxidized Presenc Recent I Stunted	·	B13) (C1) s along Lir lron (C4) in Tilled s ants (D1)	ving Roots Soils (C6)	Water-Stained Le 4A, and 4B) Drainage Patterns Dry-Season Wate	eraves (B9) (MLRA 1, 2, s (B10) er Table (C2) e on Aerial Imag.(C9) tion (D2) (D3) e (D5) ds (D6) (LRR A)
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes	No No No	_X Dep	oth (inches): oth (inches): oth (inches):			Wetland Hydrology Prese	ent? Yes No_X_
(includes capillary fringe) Describe Recorded Data (strea	m gauge, mo	onitoring well,	aerial photos, pr	evious inspecti	ions), if a	vailable:		

Decis at/Oita		D DETERMIN	NATION DAT	A FORM - V		ountains, Bellevue	• .	nd Coast Sampling I	_		014	
Project/Site:	FWLE / I-5 r: Sound T	ranait		City/Court					-			
Applicant/Owner			lan Malah			State		Sampling	-			
Investigators:	Lisa Daniel		lan Welch			•	vnship, Range		T 22 N		4 E	
Landform (hillslo	•	tc.): Hillslope			•		rex, none): Co			Slop	≗(%)	
Subregion (LRR	,		Lat: 47.	367295	Long	: -122.2949			um: N	AD83		
Soil Map Unit Na		ts, Alderwood ma	•				NWI Classifica	-				
•	Ū	tions on the site t	* '	•	Yes	No X	(If No, expl		•			
		, Hydrology			, μ	Are "Normal (Circumstances	" present?	Yes	X	No _	
		, Hydrology				,	explain any ans			,		
		GS - Attach	•	nowing sar	mpling poi	nt locatio	ns, transec	ts, impo	rtant	featu	res, et	C.
Hydrophytic Ve	· ·	_	X No									
Hydric Soil Pre Wetland Hydro		Yes	X No		ampled Area Wetland?		Yes)	(No				
Remarks:	nogy Fresent!	Yes	X No				165 /	NO NO				
This site meets		r a wetland. Sam Il nearly below no			and 12-1. Belo	w-normal rai	nfall in Novemb	er and De	cember	(3.79 a	and 1.66	1
VEGETATIO	ON_ Use so	cientific name	s of plants.	Absolute % Cover	Dominant Species	Indicator Status						
Tree Stratum	<u>1</u> (Plo	ot size: 30 Ft)	78 COVEL	Species	Status	Dominance					
Alnus ru	-	7. 312C. <u>30 1 C</u>	/	45	Υ	FAC	Number of D That Are OB			:	2	(A)
				45	=Total Cover							_
Shrub Stratu	<u>m</u> (Plo	ot size: 50 Ft)				Total Numbe Species Acro				4	(B)
	pectabilis	70 312C. <u>30 1 C</u>	/	15	Υ	FAC	GP 00:00 7:0:0	, , , , , , , , , , , , , , , , , , ,		_		_ (5)
				15	=Total Cover		Percent of D				50.0%	(A/B)
Herb Stratun	<u>1</u> (Plo	ot size: 5 Ft)				That Are OB	L, FACW, (or FAC:			_ ` ′
Polystich	num munitum		′	5	Υ	FACU	Prevalence	Index Wor	ksheet	:		
				5	=Total Cover	-	Total %	Cover of:			ply by:	
Vine Stratum	<u>1</u> (Plo	ot size: 30 Ft	1				OBL species		0	x 1 =	0	
Hedera I	-	7. 312C. <u>30 1 C</u>	/	80	Υ	FACU	FACW speci	es	0	x 2 =	0	
				80	=Total Cover		FAC species		60	x 3 =	180	
							FACU speci	es	85	x 4 =	340	
							UPL species		0	x 5 =	0	
							Column Tota	ls:	145	(A)	520	(B)
							Preval	ence Index	= B/A=	:	3.59	
							Hydrophytic	Vegetatio	n Indica	ators:		
							Rapid Te	est for Hyd	rophytic	Veget	ation	
							Dominar	nce Test >	50%			
							Prevaler	nce Index ≤	3.0			
								ogical Ada _l Remarks or				orting
								atic Hydror		•	,	plain)
							Indicators of must be pre	f hydric soi	l and we	etland h	nydrolog	ıy
							Hydroph Vegetation F		Vaa	v	No.	
% Bare Ground			annarata chast				30.0.10111		Yes	Х	No	
`	•	pers here or on a	•									
Problematic du	e lo invasive s	pecies. Vegetation	on is considered	пушорпуйс.								

Depth	ription. (Des	Matrix	o deptii need	ied to document		eatures	COMMIN	ne absence of mulcators.	
(inches)	Colo	r (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 8	10YR	3/1	100					Gravely Sandy Loam	
8 to 12	5Y	6/2	95	10yr 4/6	5	С	M	Very Gravely Sandy Loam	
¹Type: C=Coi	ncentration, I	D=Depletion	, RM=Reduce	ed Martix, CS=Co	overed or	Coated S	Sand Grai	ins. ² Location: PL=Pore Lining,	M=Matrix.
Hydric Soil Histosol (A Histic Epip Black Histi Hydrogen Depleted E Thick Dark Sandy Mu	Indicators: A1) pedon (A2)	rface (A11)) 1)		Sandy Redox (St Stripped Matrix (St Loamy Mucky Mi	5) S6) neral (F1) atrix (F2) F3) ace (F6) urface (F7)	(except MI		Indicators for Problematic Hy 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF Other (Explain in Remarks) Indicators of hydrophytic vegetati hydrology must be present, unless disturbed or problematic.	vdric Soils: ³
Type: <u>ca</u> Depth (inc Remarks:	:hes): <u>12</u>)" -		hydric soil indicator	:			Hydric Soil Present? Yo	es <u>X</u> No
HYDROLOG	GY								
Wetland Hy Primary India	0.		s required; ch	neck all that apply	/)			Secondary Indicators (minir	mum of two required)
Surface W	ater (A1)			Water-Stair		s (B9) (exc	ept MLRA	Water-Stained Leaves (I	· · · ·
✓ High Wate	er Table (A2)			1, 2, 4A and	-			4A, and 4B)	, (
✓ Saturation	(A3)			Salt Crust (•	(D40)		Drainage Patterns (B10))
Water Mar	rks (B1)			Aquatic Inve		` '		Dry-Season Water Table	e (C2)
	Deposits (B2)			Hydrogen S		` '	. da a Da ata	Saturation Visible on Ae	rial Imag.(C9)
Drift Depo	` ,			Oxidized R			ving Roots	Geomorphic Position (D.	2)
	or Crust (B4)			Presence o		, ,	Coile (CC)	Shallow Aquitard (D3)	
Iron Depos	. ,			Recent Iron			. ,	FAC-Neutral Test (D5)	
	oil Cracks (B6)			☐ Stunted or		, ,	(LRR A)	Paised Ant Mounds (D6) (LRR A)
=	Visible on Ae			Other (Expl	ain in Rem	narks)		Frost-Heave Hummocks	(D7)
Field Observ	/egetated Con	cave Surface	(B8)						
	ter Present?	Yes	No.	X Depth	(inches):				
Water Table		Yes					10		
Saturation P		Yes			(inches): (inches):		8	Wetland Hydrology Present?	Yes _X_ No
	pillary fringe)	163	<u> </u>	Бериі	(IIICIICS).			, , , , , , , , , , , , , , , , , , , ,	
		am aniia ma	onitoring well:	aerial photos, previ	ous inspec	tions), if a	vailable:		
Remarks:		sam gauge, m	Ormorning well, t						

Project/Site: F	WETLAND DE	ETERMINATIO	ON DATA	A FORM - N		ountains, Bellevue	•	nd Coas Sampling	_		114	
Applicant/Owner:	Sound Transit	 t		,		State:		Sampling	_			
Investigators:	Lisa Danielski	-	an Welch				nship, Range		T 22 N			
Landform (hillslop		Top of Slope					ex, none): Co			Slope		
Subregion (LRR):	. ,		Lat: 47.3		`	-122.2948	· , —		tum: N	-		
Soil Map Unit Nan		derwood material,	-			-	NWI Classifica					
•	ologic conditions of				Yes	No X	(If No, expl	-	narks)			
•	, Soil,	,,		•			 Circumstances		·	Х	No	
	, Soil,				·		explain any an					
SUMMARY C	F FINDINGS -	· Attach a site	map sh	owing sar	npling poi	nt location	ns, transec	ts, impo	ortant	featur	es, et	tC.
Hydrophytic Veg	getation Present?	YesN	10 X									
Hydric Soil Pres		YesN	lo X		ampled Area							
Wetland Hydrolo	ogy Present?	Yes N	lo X	within a	Wetland?		Yes	No	Х			
Remarks: Upland paired sa normal in Januar	imple plot with SP y (3.7 inches).	12-6. Below-norm	nal rainfall i	n November a	and December	(3.79 and 1	.66 inches, res	pectively).	Rainfa	ll nearly	below	
VEGETATION	N_ Use scienti	fic names of p	lants.	Absolute	Dominant	Indicator						
Tree Stratum	(Plot size	e: <u>30 Ft</u>)		<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance					
Alnus rubr	-	<u>. 3011 </u>		50	Υ	FAC	Number of E That Are OB			:	2	(A)
Thuja plica	ata			10	N	FAC						
				60	=Total Cover		Total Number Species Acro				4	(B)
Shrub Stratum	(Plot size	e: <u>50 Ft</u>)					•					_ ` ′
Rubus spe	ectabilis			20	Υ	FAC	Percent of D That Are OB				50.0%	(A/B)
Herb Stratum	/DI + :	·		20	=Total Cover		Prevalence					
	(Plot size m munitum): <u>5 Ft</u>)		10	Y	FACU	Total %	Cover of:		Multi	ply by:	
- Olysticital				10	=Total Cover		OBL species	·	0	x 1 =	0	
Vine Stratum	(=1 -				rotal cover		FACW speci		0	x 2 =	0	
Hedera he	(Plot Size	:: <u>30 Ft</u>)		90	Y	FACU	FAC species	;	80	x 3 =	240	
— Hedera ne	HIX					FACU	FACU speci		90	x 4 =	360	
					=Total Cover		UPL species	·	0	x 5 =	0	
							Column Tota	ıls:	170	(A)	600	(B)
							Preval	ence Inde	x = B/A=	=	3.53	
							Hydrophytic	Vegetatio	n Indica	ators:		
							Rapid Te	est for Hyd	Irophytic	: Vegeta	ation	
							Dominar	nce Test >	50%			
							Prevaler	nce Index	≤ 3.0			
								ogical Ada Remarks o				orting
								atic Hydro		•	,	plain)
							Indicators of must be pre	f hydric so	il and w	etland h	nydrolog	зу
							Hydroph Vegetation F	•	٧.		N	
% Bare Ground in		oro or on o conse	ato chast \				+ ogetation i	. 000111:	Yes		No Z	<u> </u>
`	e photo numbers he s not meet any veg	•	,									

	iption. (De	Matrix	deptii iieed	led to docume		Features	COMMIN U	ne absence of indicators.		
Depth (inches)	Colo	or (moist)	%	Color (moist)	%		Loc ²	 Texture	Remarks	
0 to 9	10YR	4/2	100	,				Gravely Sandy Loam		
9 to 16	10YR	5/2	100					Very Gravely Sandy Loam		
				ed Martix, CS=0	covered o	r Coated	Sand Grain	· · ·	√=Matrix.	
Hydric Soil I	ndiastora									
Histosol (A				Sandy Redox (S	25)			Indicators for Problematic Hy	dric Soils: 3	
Histic Epipe	,			Stripped Matrix	,			2 cm Muck (A10)		
Black Histic				Loamy Mucky N	. ,	(except M	LRA 1)	Red Parent Material (TF2)		
Hydrogen S	Sulfide (A4)			Loamy Gleyed I			•	☐ Very Shallow Dark Surface (TF1	12)	
Depleted B	elow Dark Su	urface (A11)		Depleted Matrix				Other (Explain in Remarks)		
Thick Dark	Surface (A12	2)		Redox Dark Su	face (F6)			Indicators of hydrophytic vegetation	on and wetland	
	ky Mineral (S	-		Depleted Dark	Surface (F7	')		hydrology must be present,	and wettand	
Sandy Gley	red Matrix (S	4)		Redox Depress	ons (F8)			unless disturbed or problematic.		
Restricti	ve I aver	(if observe	q).							
Type:	ve Layer	(ii Observe	u).							
Depth (inch	ies):							Hydric Soil Present? Ye	esNo_>	X
Remarks:								1		
Shovel Refusal	at 16". This s	sample does no	ot meet any hy	dric soil indicators						
HYDROLOG	Y									
Wetland Hyd	lrology Inc	dicators:								
Primary Indica	ators (minir	num of one is	s required; ch	neck all that app	ly)			Secondary Indicators (minim	num of two required	d)
Surface Wa	iter (A1)					es (B9) (exc	ept MLRA	─────────────────────────────────────		
High Water	Table (A2)			1, 2, 4A a	-			4A, and 4B)	-, (= , =,	
Saturation ((A3)			Salt Crust	, ,	(5.46)		Drainage Patterns (B10)		
Water Mark	(s (B1)			= :	vertebrates	, ,		Dry-Season Water Table	(C2)	
	Deposits (B2)			_ , ,	Sulfide Od	. ,	ving Roots	Saturation Visible on Aer	ial Imag.(C9)	
Drift Depos					of Reduce		ving 10003	Geomorphic Position (D2	.)	
	r Crust (B4)			=		n in Tilled	Soils (C6)	Shallow Aquitard (D3)		
Iron Deposi	ils (B5) il Cracks (B6	3				Plants (D1)	, ,	FAC-Neutral Test (D5)		
	•	rial Imagery (E	87)		olain in Rer	` '	, (=: :: : : ,	Paised Ant Mounds (D6)	,	
		ncave Surface		Out of (Ex	Jiaii III 1 (0)	narro)		Frost-Heave Hummocks	(D7)	
Field Observ	_		(- /							
Surface Water		Yes	No	X Dept	n (inches):					
Water Table I			No		n (inches):					
Saturation Pr	esent?	Yes	No	X Dept	n (inches):			Wetland Hydrology Present?	Yes No_2	X
(includes cap									-	
Describe Record	ded Data (str	eam gauge, m	onitoring well,	aerial photos, pre	vious inspe	ctions), if a	vailable:			
Remarks:										
	s at 16". This	sample does i	not meet any h	ydrology indicator	S.					

WETLAND DETERMINATION DA	ΓA FORM - Western N	ountains, Valleys, and Coast Region	
Project/Site: FWLE / I-5	City/County:	Bellevue Sampling Date: 1/28	/2014
Applicant/Owner: Sound Transit		State: WA Sampling Point: SP	12-1-8
Investigators: Lisa Danielski Ian Welsh		Section, Township, Range S 28 T 22 N	R 4 E
Landform (hillslope, terrace, etc.): Hillslope	Local Relief (c	ncave, convex, none): Concave SI	ope(%)
Subregion (LRR): A Lat: 47	.367996 Lon	: -122.294780 Datum: NAD8	3
Soil Map Unit Name: Arents, Alderwood material, 6 to 15 p	ercent slopes	NWI Classification: PEM1	
Are climatic / hydrologic conditions on the site typical for this til	ne of year? Yes	No X (If No, explain in Remarks)	
Are Vegetation, Soil, Hydrology, signification	antly disturbed?	Are "Normal Circumstances" present? Yes	X No
Are Vegetation, Soil, Hydrology, naturall		(If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach a site map s	howing sampling po	nt locations, transects, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X No			
Hydric Soil Present? Yes X No	Is the Sampled Area		
Wetland Hydrology Present? Yes X No	within a Wetland?	Yes X No	
Remarks: This site meets the criteria for a wetland. Below-normal rainfa normal in January (3.7 inches). Sample plot located in north p	oortion of Wetland 12-1 on e	st side of wetland.	early below
VEGETATION — Use scientific names of plants.	Absolute Dominant % Cover Species	Status Dominance Test Worksheet:	
Tree Stratum	<u>70 0000</u>	Dominance Test Worksheet: Number of Dominant Species	
Shrub Stratum		That Are OBL, FACW, or FAC:	1 (A)
Herb Stratum (Plot size: 5 Ft)		Total Number of Deminerat	
Scirpus microcarpus	85 Y	Total Number of Dominant OBL Species Across all Strata:	1 (B)
Phalaris arundinacea		FACW	``
Equisetum telmateia		FACW Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
	103 =Total Cove		
Vine Stratum		Prevalence Index Worksheet:	
		OF4	ultiply by:
		OBL species 85 x 1	
		FACW species 18 x 2	
		FAC species 0 x 3	
		FACU species 0 x 4	
		UPL species0 x 5	= 0
		Column Totals: 103 (A)	121 (B)
		Prevalence Index = B/A=	1.17
		Hydrophytic Vegetation Indicators	
		Rapid Test for Hydrophytic Veg X Dominance Test > 50%	getation
		X Prevalence Index ≤ 3.0	
		Morphological Adaptations (Pr	
		data in Remarks or on a separa Problematic Hydrophytic Veget	,
		Indicators of hydric soil and wetlan must be present, unless disturbed	d hydrology
		Hydrophytic	·
% Bare Ground in Herb Stratum Remarks: (Include photo numbers here or on a separate sheet)	vegetation Present? Yes X	No
Vegetation meets the dominance test and prevalence index for	•		

Profile Descri	he absence of Indicators.)												
Depth	-	latrix				 ,							
(inches)	Color (me	oist)	%	Color (m	oist) %	Type ¹	Loc ²	Texture	Remarks				
0 to 8		2/1	100	None				Gravely Sandy Loam					
8 to 10		5 / 1	93	10YR 4		<u>C</u>	M	Gravely Sand					
¹ Type: C=Con	centration, D=D	epletion,	RM=Redu	uced Martix,	CS=Covered or	Coated	Sand Grai	ins. 4Location: PL=Pore Lining,	M=Matrix.				
Hydric Soil I	1)			Sandy Re				Indicators for Problematic Hy	dric Soils: 3				
Histic Epipe					Matrix (S6)			Red Parent Material (TF2)					
Black Histic				_	ucky Mineral (F1)	(except M	LRA 1)	Very Shallow Dark Surface (TF12)					
Hydrogen S					eyed Matrix (F2) Matrix (F3)			Other (Explain in Remarks)	,				
	elow Dark Surface	(A11)											
	Surface (A12)				rk Surface (F6)			³ Indicators of hydrophytic vegetation	on and wetland				
	ky Mineral (S1)				Dark Surface (F7))		hydrology must be present, unless disturbed or problematic.					
Sandy Gley	red Matrix (S4)			Redox De	pressions (F8)			unless disturbed or problematic.					
Restricti	ve Layer (if o	bserve	d):										
Туре:								Harlin Oall Branch	V N-				
Depth (inch	es):							Hydric Soil Present? Ye	es X No				
Remarks:													
Shovel refusal a	t 10" due to highly	compact	ed gravelly	sand. This are	a meets hydric so	il indicator	with a dep	eleted matrix (F3).					
HYDROLOG	Y												
Wotland Hyd	rology Indicat	ore:											
	ators (minimum		s required:	check all tha	it apply)								
	•	01 0110 10	, roquirou,		er-Stained Leave	2 (PO) (ove	ont MI DA	Secondary Indicators (minir	· , ,				
✓ Surface Wa✓ High Water	` '				, 4A and 4B)	s (Da) (exc	ept wilky	Water-Stained Leaves (E 4A, and 4B)	39) (MLRA 1, 2,				
Saturation (Salt	Crust (B11)								
				Agu	atic Invertebrates	(B13)		Drainage Patterns (B10)					
☐ Water Mark	` '				rogen Sulfide Odo	` '		Dry-Season Water Table					
Drift Deposit	eposits (B2)				dized Rhizosphere	` '	vina Roots	(C3) Saturation Visible on Aer	rial Imag.(C9)				
= .	• •				sence of Reduced		Ü	Geomorphic Position (D2	2)				
☐ Algal Mat o					ent Iron Reduction	, ,	Soils (C6)	Shallow Aquitard (D3)					
	il Cracks (B6)				nted or Stressed F		. ,	FAC-Neutral Test (D5)					
	Visible on Aerial In	aagan, (P	7)		er (Explain in Rem	` '	, (_, , , ,	Paised Ant Mounds (D6)					
	egetated Concave	• • •	'		ei (Expiaiii iii Reii	iaiks)		Frost-Heave Hummocks	(D7)				
Field Observa	_	- Curiaco (,50)										
Surface Water		Yes	N'	lo X	Depth (inches):								
Water Table I			XN		Depth (inches):		7						
Saturation Pro			<u>X</u> N		Depth (inches):		10	Wetland Hydrology Present?	Yes _X_ No				
(includes cap						_	-						
	ded Data (stream of	gauge, mo	onitoring we	II, aerial photo	s, previous inspec	tions), if a	vailable:						
Remarks:													
Wetland hydrolo	gy meets indicator	rs for high	ı water table	e (A2) and satu	ıration (A3).								

Project/Site:	WETLAND D	ETERMINAT	ION DATA	A FORM -		lountains Bellevue		nd Coas	_		014	
Applicant/Owner		·+		City/Coui	щ.	State		Sampling	-			
• •		ıı	Ian Welsh				e: <u> WA </u>				4 E	
Investigators:	Lisa Danielski	Ton of Clans	ian weisn				-		T 22 N			
•	ppe, terrace, etc.):	Top of Slope	1 at: 47 0				vex, none): C		-t N		e(%) _	
Subregion (LRR	•		_ Lat: _47.3			ı: -122.294			atum: N	AD83		
Soil Map Unit Na		derwood materia					NWI Classific	·				
•	drologic conditions			•	Yes	No X	` ' '		,	.,		
	, Soil,					Are "Normal	Circumstance	s" present'	? Yes	X	No _	
Are Vegetation	, Soil,	Hydrology	_, naturally p	oroblematic?	,	(If needed,	explain any ar	nswers in F	Remarks	.)		
SUMMARY	OF FINDINGS	- Attach a sit	e map sh	owing sa	mpling poi	nt locatio	ns, transe	cts, imp	ortant	featu	res, et	tc.
Hydrophytic Ve	egetation Present?	Yes X	No									
Hydric Soil Pre		Yes	No X		Sampled Area							
Wetland Hydro	logy Present?	Yes	No X	within	a Wetland?		Yes	No	X			
November and	sample plot in emer December (3.79 ar	nd 1.66 inches, re	espectively).	Rainfall nea	arly below norm	nal in Januar		wetland.	Below-n	ormal r	ainfall in	ı
VEGETATIO	N – Use scient	ific names of	plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominance	e Test Wo	rksheet:			
Tree Stratum	<u>!</u>						Number of					
Shrub Stratu	<u>m</u> (Plot siz	e: <u>50 Ft</u>)					That Are O			: _	2	(A)
Rubus s	pectabilis	, <u></u>		5	Υ	FAC	Total Numb	er of Domi	inant			
				5	=Total Cover		Species Ac				2	(B)
Herb Stratum	<u> </u>	e: 5 Ft)								_		_
Phalaris	arundinacea	,		100	Υ	FACW	Percent of I That Are Of			: _	100.0%	(A/B)
				100	=Total Cover				-			
Vine Stratum	<u></u>						Prevalence				Carlos Iasas	
								Cover of:	0	x 1 =	tiply by:	
							OBL specie		100	x 2 =		
							FACW spec		5	_		
							FAC specie			x4=		
							FACU spec		0			
							UPL specie	s	0	x 5 =		
							Column Tot	als:	105	(A)	215	(B)
							Preva	alence Inde	ex = B/A		2.05	
							Hydrophytic	•				
							Rapid 1	Test for Hy	drophytic	: Veget	ation	
							X_Domina	ance Test >	> 50%			
							X_Prevale	ence Index	≤ 3.0			
								ological Ada Remarks o				oorting
							Probler	matic Hydro	ophytic \	/egetati	ion (Ex	plain)
							Indicators of must be pr					
							Hydrop Vegetation	•				
	in Herb Stratum						vegetation	i ieseiit?	Yes	Х	No	
	de photo numbers h											
Vegetation mee	ets the dominance t	est and prevalen	ce index for	hydrophytic	vegetation.							

ЮR

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

Depth	oth Matrix Redox Features							ires					
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0 to 17	10YR	2/2	100	None				Very Gravely Sandy Loam					
17 to 21	10YR	3 / 2	98	7.5YR 4/4				Very Gravely Sandy Loam					
¹Type: C=C	oncentration, D	=Depletion	RM=Reduce	ed Martix, CS=0	Covered or	Coated S	Sand Grain	ns. ² Location: PL=Pore Lini	ng, M=Matrix.				
Hydric Soi	l Indicators:							Indicators for Problematic	Hydric Soils: 3				
Histosol	(A1)			Sandy Redox (S5)			2 cm Muck (A10)					
Histic Ep	pipedon (A2)			Stripped Matrix	(S6)			Red Parent Material (TF2)					
Black Hi	stic (A3)			Loamy Mucky N	Mineral (F1)	(except MI	LRA 1)	Very Shallow Dark Surface	(TF12)				
	n Sulfide (A4)			Loamy Gleyed	Matrix (F2)			Other (Explain in Remarks)	•				
_ '	l Below Dark Sur	, ,		Depleted Matrix	` '				,				
Thick Dark Surface (A12) Redox Dark Surface (F6) Redox Dark Surface (F6)								³ Indicators of hydrophytic veg	etation and wetland				
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Depleted Dark Surface (F7)								hydrology must be present, unless disturbed or problematic.					
Sandy Gleyed Matrix (S4) Redox Depressions (F8)								uniess disturbed or problema	ΛIC.				
Restri	ctive Layer (i	if observe	d):										
Type:								Heatric Call Bases and C	V N- V				
Depth (ir	nches):							Hydric Soil Present?	Yes No X				
Remarks:													
This sample	does not meet an	ly hydric soil i	ndicators; 17-2	21" soils are too d	eep to meet	redox dari	k surface ar	nd do not constitute a depleted matrix	layer.				
HYDROLO	OGY												
	ydrology Indi		s required: ch	eck all that app	olv)			Cocondon Indicators (n	ninimum of two required)				
	Water (A1)				ained Leaves	s (R9) (eyo	ent MI RA	Secondary Indicators (minimum of two required)					
	ter Table (A2)			1, 2, 4A a		3 (B3) (CXC	CPUNLIO	Water-Stained Leav 4A, and 4B)	es (B9) (MLRA 1, 2,				
Saturation				Salt Crus	t (B11)				D40)				
	arks (B1)			Aquatic In	vertebrates	(B13)		Drainage Patterns (I					
	t Deposits (B2)			Hydrogen	Sulfide Odo	r (C1)		Dry-Season Water 1 Saturation Visible or	` '				
	oosits (B3)			Oxidized	Rhizosphere	s along Li	ving Roots	(C3) Geomorphic Position	• ,				
	it or Crust (B4)			Presence	of Reduced	Iron (C4)		Shallow Aquitard (D	,				
☐ Iron Dep	osits (B5)			Recent Iro	on Reduction	n in Tilled S	Soils (C6)	FAC-Neutral Test (D	·				
Surface	Soil Cracks (B6)			Stunted o	r Stressed F	Plants (D1)	(LRR A)	Paised Ant Mounds					
Inundation	on Visible on Aeri	ial Imagery (E	37)	Other (Ex	plain in Rem	arks)		Frost-Heave Hummo	, , , ,				
Sparsely	Vegetated Cond	ave Surface	(B8)						70.10 (D.)				
Field Obse	rvations:												
Surface W	ater Present?	Yes	No	X Dept	h (inches):								
Water Tab	le Present?	Yes	No	X_ Dept	h (inches):								
Saturation	Present?	Yes	No	X Dept	h (inches):			Wetland Hydrology Presen	t? Yes No_X_				
	capillary fringe)												
Describe Rec	orded Data (stre	am gauge, m	onitoring well, a	aerial photos, pre	vious inspec	tions), if a	vailable:						
Domarka													
Remarks: This sample	does not meet an	ıy hydrology i	ndicators.										

WETLAND DETERMIN	IATION DATA			•	•	_	•	
Project/Site: FWLE / I-5		City/Count	y:	Des Moine	s Sar	mpling Date:	3/26/2014	
Applicant/Owner: Sound Transit				State	: WA Sa	mpling Point:	SP 12-2-1	
Investigators: Lisa Danielski	Brendan Ba	ughn		Section, Tow	nship, Range S	28 T 22 N	N R4E	
Landform (hillslope, terrace, etc.): Depressi	on	Lo	ocal Relief (co	oncave, conv	ex, none): Conc	ave	Slope(%)	
Subregion (LRR): A	Lat: 47.3	65811	Long	: -122.3057	703	Datum: 1	NAD83	
Soil Map Unit Name: Everett gravelly sandy	loam, 0 to 5 perc	ent slopes			NWI Classification	n:		
Are climatic / hydrologic conditions on the site to	ypical for this time	of year?	Yes	No X	(If No, explain	in Remarks)		
Are Vegetation, Soil, Hydrology	, significant	ly disturbed?		Are "Normal (Circumstances" pr	esent? Yes	s X No	0
Are Vegetation, Soil, Hydrology	, naturally p	roblematic?		(If needed,	explain any answe	ers in Remarks	s.)	
SUMMARY OF FINDINGS - Attach a	a site map sh	owing san	npling poi	nt locatio	ns, transects,	important	features,	etc.
	X No					-		
Hydric Soil Present? Yes	No X	Is the Sa	ampled Area					
Wetland Hydrology Present? Yes	No X	within a	Wetland?		Yes	No X		
Remarks: Paired upland plot for Wetland 12-2. This plot of over 1.5 inches in the week prior to wetland de		hydrology ind	licators. Reco	rd rainfall du	ring previous mon	th (6.5 inches	in February a	and
VEGETATION Use scientific names	s of plants.	Absolute	Dominant	Indicator				
Tree Stratum	•	<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance Tes			
					Number of Dom That Are OBL, I			(A)
Shrub Stratum (Plot size: 50 Ft)	0	Y	FAC		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Acer circinatum				FAC	Total Number of Species Across		3	(B)
Herb Stratum (Plot size: 5 Ft	,	_	=Total Cover		Openies Across	an Otrata.		(D)
Herb Stratum (Plot size: 5 Ft Festuca rubra)	50	Y	FAC	Percent of Domi			0% (A/B)
Holcus lanatus		30	- <u>'</u>	FAC	That Are OBL, F	FACW, or FAC):	
Bryopsida spp.		15	N	FAC	Prevalence Ind	ex Workshee	t:	
Medicago lupulina		1	N	FACU	Total % Cov	er of:	Multiply b	y:
Taraxacum officinale		1	N	FACU	OBL species	0	x 1 = (0
Vicia americana		1	N	FAC	FACW species	0	x 2 =	0
		98	_=Total Cover		FAC species	98	x 3 = 29	94
Vine Stratum					FACU species	2	x 4 =	8
					UPL species	0	x 5 = (0
					Column Totals:	100	(A) 30	2 (B)
					Prevalenc	e Index = B/A	= 3.02	2
					Hydrophytic Ve	getation Indic	cators:	
					Rapid Test	- for Hydrophyti	ic Vegetation	
					X Dominance	Test > 50%	-	
					Prevalence	Index ≤ 3.0		
						cal Adaptation		
						narks or on a s : Hydrophytic \	•	,
					Indicators of hy must be preser	dric soil and v	vetland hydro	ology
					Hydrophyti	C	·	
% Bare Ground in Herb Stratum					Vegetation Pres	sent? Yes	X No	
Remarks: (Include photo numbers here or on a	,							
Shrubs recently outplanted. Vegetation meets	the dominance te	st for hydroph	nytic vegetatio	n.				

	Sampling Point: SP 12-2-1	
SOIL.	5ambiing Point 5P 17-7-1	

Profile Descri	ption: (Desc	ribe to the	depth nee	eded to document	the indi	cator or	confirm t	he absence of Indicators.)				
Depth	-	Matrix			Redox F							
(inches)	-	(moist)	<u></u> %	Color (moist)	%	Type 1		Texture	Remarks			
0 to 7	10YR	3 / 2	97	5YR 4/6	3	С	M	FINE SANDY LOAM				
7 to 11	10YR	3 / 4	93	2.5yr 4/6	2	С	<u>M</u>	SANDY LOAM	_			
7 to 11		1		7.5YR 5/8	5	С	M	SANDY LOAM	_			
11 to 14	10YR	2/2	97	10YR 5/6	2	С	M	LOAM	Sandy Inclusions			
11 to 14		1		5YR 3/4	10	P	L	LOAM	_			
14 to 15	2.5Y	5/2	100						Diatomaceous earth			
15 to 19	10YR	3 / 1	100					SANDY CLAY LOAM				
¹ Type: C=Con	centration, D	=Depletion,	RM=Redu	iced Martix, CS=Co	overed or	Coated	Sand Gra	ins. 4Location: PL=Pore Lining	ı, M=Matrix.			
Hydric Soil In	ndicators:							Indicators for Problematic I				
Histosol (A1)			Sandy Redox (S5	5)							
Histic Epipe	don (A2)			Stripped Matrix (S	S6)			2 cm Muck (A10)				
Black Histic	(A3)			Loamy Mucky Mi	neral (F1)	(except M	LRA 1)	Red Parent Material (TF2)	TT40\			
Hydrogen S	ulfide (A4)			Loamy Gleyed M	atrix (F2)			✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)				
Depleted Be	elow Dark Surf	ace (A11)		Depleted Matrix (F3)			Uner (Explain in Remarks)				
Thick Dark Surface (A12) Redox Dark Surface (F6)								³ Indicators of hydrophytic vegeta	ation and wetland			
Sandy Mucl	ky Mineral (S1))		Depleted Dark Su	urface (F7)			hydrology must be present,				
Sandy Gleyed Matrix (S4) Redox Depressions (F8)								unless disturbed or problemation	i.			
Restricti	ve Layer (if	fobserved	D:									
Type:	,		·,-									
Depth (inch	es).							Hydric Soil Present?	Yes No X			
Remarks:												
HYDROLOG Wetland Hyd	rology Indic											
	`	ım of one is	requirea;	check all that apply	.,			Secondary Indicators (mir	nimum of two required)			
Surface Wa	, ,			Water-Stair 1, 2, 4A and		s (B9) (exc	cept MLRA	Water-Stained Leaves	(B9) (MLRA 1, 2,			
High Water	` '			Salt Crust (☐ 4A, and 4B)				
Saturation (,			Aquatic Inve	•	(B13)		Drainage Patterns (B1	0)			
☐ Water Mark	` ,			Hydrogen S		` '		Dry-Season Water Tab	ole (C2)			
	eposits (B2)			Oxidized RI			ivina Roots	(C3) Saturation Visible on A	erial Imag.(C9)			
Drift Deposi	` '			Presence o	•	•		Geomorphic Position (D2)			
Algal Mat or				Recent Iron		, ,	Soils (C6)	Shallow Aquitard (D3)				
☐ Iron Deposi	ls (B5) I Cracks (B6)			Stunted or			, ,	FAC-Neutral Test (D5)				
	/isible on Aeria	al Imageny (P7	7)	Other (Expl			, (214171)	Paised Ant Mounds (D	* * * *			
	getated Conca	• • • •	•	Other (Expr	alli ili ixeli	iaiks)		Frost-Heave Hummocl	(S (D7)			
Field Observa												
Surface Wate		Yes	N	o X Depth	(inches):							
Water Table F		Yes	N		(inches):							
Saturation Pre		Yes	N		(inches):			Wetland Hydrology Present?	Yes No_X_			
(includes capi									<u> </u>			
		m gauge, mo	nitoring wel	ll, aerial photos, previ	ous inspec	tions), if a	vailable:					
Damania												
Remarks: This sample doe	s not meet any	y hydrology in	dicators.									



	ETLAND D .E / I-5	ETERMI	NATION DAT	City/Cour		ountains Des Moine			oast Reg		114	
Applicant/Owner:	Sound Trans	it		-		State			pling Point:			
	a Danielski	ort.	Brendan E	Paughn			vnship, Rang		-	-		
Landform (hillslope, te		Donroos				•	1,			Slope		
,	. ,	Depress			Local Relief (co		_	Conca		_ '	<i>z</i> (70)	
Subregion (LRR): A				22.305683	Long	: 47.36584			Datum: 1	NAD83		
Soil Map Unit Name:			ly loam, 0 to 5 pe				NWI Classifi		-			
Are climatic / hydrolog	•			•	Yes	No X			n Remarks)			
Are Vegetation			_	-		Are "Normal	Circumstance	es" pre	sent? Yes	s X	No	
Are Vegetation							explain any a					
SUMMARY OF I			-	howing sa	mpling poi	nt locatio	ns, transe	ects, i	mportant	t featur	es, et	C.
Hydrophytic Vegetate Hydric Soil Present?		_	X No									
Wetland Hydrology		Yes _	X No		Sampled Area a Wetland?		Yes	x	No			
Remarks:	i icaciit:	Yes	X No				163					
This plot meets the ordelineation). Sample	e plot is in We	tland 12-2.					and over 1.5	inches	s in the week	c prior to	wetland	i
VEGETATION_	Use scient	ific name	s of plants.	Absolute % Cover	Dominant Species	Indicator Status	Dominano	e Test	Worksheet			
Tree Stratum					<u> </u>	<u> </u>			nant Species			
Shrub Stratum									ACW, or FAC		2	(A)
Herb Stratum	(Plot siz	e: <u>5 Ft</u>	1				Total Num	har of [Cominant			
Glyceria elata	(1 100 312	.c. <u>510</u>	/	40	Υ	FACW	Species A				2	(B)
Phalaris arundi	inacea			40	Y	FACW				_		_ ` `
Juncus effusus	3			10	N	FACW			ant Species CW, or FAC		100.0%	(A/B)
Holcus lanatus	1			5	N	FAC						_
Ranunculus re	pens			5	N	FAC	Prevalenc	e Inde	x Workshee	et:		
Rumex obtusife	olius			2	N	FAC	Total	% Cove			ply by:	
				102	=Total Cover		OBL speci	es	0	x 1 =	0	
Vine Stratum							FACW spe	ecies	90	x 2 =	180	
							FAC speci	es	12	x 3 =	36	
							FACU spe	ecies	0	x 4 =	0	
							UPL speci	es	0	x 5 =	0	
							Column To	otals:	102	(A)	216	(B)
							Prev	/alence	Index = B/A	l=	2.12	
							Hydrophyt	ic Vege	etation Indic	cators:		
							Rapid	Test fo	r Hydrophyt	ic Vegeta	ation	
							XDomin	nance T	est > 50%			
							X Preval	lence Ir	ndex ≤ 3.0			
									l Adaptation irks or on a s			orting
							Proble	ematic I	-lydrophytic	Vegetatio	on (Ex	plain)
									ric soil and v , unless dist			
N.D. 0							Hydro Vegetation	phytic n Prese	ent? Yes	Х	No	
% Bare Ground in He Remarks: (Include ph		here or on a	senarata abast	`			J:		162			
Vegetation meets the			•	,	vegetation.							

Depth	ption: (Des	Matrix	aeptn r	needed	to document	Redox F		confirm tr	ne absence of Indicators.)	
(inches)	Colo	r (moist)	%	_ (Color (moist)	%		Loc ²	 Texture	Remarks
0 to 6	10y	3 / 2	100						FINE SANDY LOAM	·
6 to 15	10YR	4/1	98		10YR 5/8	20	С		SANDY LOAM	Some cobbles
¹Type: C=Cond				duced					ns. ² Location: PL=Pore Lining, N	M=Matrix.
Hydric Soil Ir Histosol (A1 Histic Epipe Black Histic Hydrogen Si Depleted Be Thick Dark Si Sandy Muck	ndicators:) don (A2) (A3) ulfide (A4) elow Dark Sui Surface (A12 sy Mineral (Sed Matrix (S4)	rface (A11)) 1)		S S L V [Sandy Redox (S5 Stripped Matrix (S Loamy Mucky Min Loamy Gleyed Matrix (Redox Dark Surfa Depleted Dark Surfa Depleted Dark Surfa Redox Depressio	5) 66) neral (F1) (atrix (F2) F3) ace (F6) urface (F7)	(except M		Indicators for Problematic Hy 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF1 Other (Explain in Remarks) Indicators of hydrophytic vegetatic hydrology must be present, unless disturbed or problematic.	dric Soils: ³
Depth (inche Remarks:	Y								Hydric Soil Present? Ye	es X No
Wetland Hyd			require	d. chec	ck all that apply	()			Canadam Hadinatam (minim	
Surface Water High Water Saturation (Water Marks Sediment Do Drift Deposit Algal Mat or Iron Deposit Surface Soil	ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aer		7)	a, one	Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl.	ned Leaves d 4B) B11) ertebrates of ulfide Odor nizosphere f Reduced Reduction Stressed P	(B13) r (C1) rs along Li lron (C4) n in Tilled	iving Roots (Soils (C6)	Secondary Indicators (minim Water-Stained Leaves (B 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table Saturation Visible on Aeri Geomorphic Position (D2 Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) Frost-Heave Hummocks	(C2) ial Imag.(C9) (LRR A)
Surface Water		Yes		No	X Depth	(inches):				
Water Table F		Yes				(inches):	-	4"		
Saturation Pre			X			(inches):	-	0"	Wetland Hydrology Present?	Yes _X_ No
(includes capil Describe Record Remarks:							tions), if a	vailable:		
i Ciliains.										

WETLAND DE	TERMINAT	ION DA			ountains,	Valleys, and	Coast Re	∍gion		
Project/Site: FWLE / I-5			City/Coun	ty:	Kent	 -	mpling Date			
Applicant/Owner: Sound Transit					State	: WA Sai	mpling Poin	it: SP 20)-2-1	
Investigators: Lisa Danielski		Section, Tov	vnship, Range S	22 T 22	2N R	4 E				
Landform (hillslope, terrace, etc.):	Depression		L	ocal Relief (co	ncave, conv	rex, none): Conca	ave	Slop	e(%)	
Subregion (LRR): A		Lat: 4	7.385223	Long	: -122.2908	397	Datum:	NAD83		
Soil Map Unit Name: Alderwood	gravelly sandy	loam, 6 to	o 15 percent slop	es		NWI Classification				
Are climatic / hydrologic conditions or	n the site typica	al for this t	ime of year?	Yes	No X	(If No, explain	in Remarks	,)		
Are Vegetation X, Soil , I	Hydrology	_, signific	cantly disturbed?	,	Are "Normal	Circumstances" pr	esent? Y	'es X	No	
Are Vegetation, Soil, H	Hydrology	_, natura	lly problematic?		(If needed,	explain any answe	rs in Rema	rks.)		
SUMMARY OF FINDINGS -	Attach a si	te map	showing sar	mpling poi	nt locatio	ns, transects,	importa	nt featu	res, et	c.
Hydrophytic Vegetation Present?	Yes X	No	_				-			
Hydric Soil Present?	Yes	No X		ampled Area						
Wetland Hydrology Present?	Yes	No X	within a	Wetland?		Yes	No)	X		
Remarks: Sample plot to verify that Wetland 20 month (6.5 inches in February and o						l wetland indicators	s. Record ra	ainfall duri	ng previc	ous
VEGETATION Use scientifi	c names of	plants.	Absolute	<u>Dominant</u>	Indicator					
Tree Stratum			<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance Tes				
	50 Ft \					Number of Dom That Are OBL, F			1	(A)
<u>Shrub Stratum</u> (Plot size: Spiraea douglasii	_50 Ft)		5	Υ	FACW					
				=Total Cover		Total Number of Species Across			2	(B)
Herb Stratum						·		_		_ ` ´
Vine Stratum	20.5+ \					Percent of Domi That Are OBL, F			50.0%	(A/B)
(Plot size:	30 Ft)		75	Υ	FACU					
- Tubus armemadus			75	=Total Cover	17.00	Prevalence Inde				
				Total Cover		Total % Cov	/er ot: 0	x 1 =	iply by: 0	
						OBL species	5	x 2 =		
						FACW species	0	x 3 =		
						FAC species	75	x 4 =	300	
						FACU species	0	x 5 =		
						UPL species	-			(D)
						Column Totals:	80	(A)	310	(B)
						Prevalenc	e Index = B	:/A=	3.88	
						Hydrophytic Veg	jetation Inc	dicators:		
						Rapid Test f	or Hydroph	ytic Veget	ation	
						Dominance	Test > 50%)		
						Prevalence	Index ≤ 3.0			
						Morphologic			ida sunn	ortina
						data in Rem				orting
						Problematic	Hydrophyti	c Vegetati	on (Exp	olain)
						Indicators of hy must be presen				
% Bare Ground in Herb Stratum						Hydrophytic Vegetation Pres	10	es X	No	
Remarks: (Include photo numbers he	re or on a sepa	arate shee	et.)			<u> </u>				<u>=</u>
This sample does not meet any vege	etative indicato	rs.								

SOIL	Sampling Point: SP 20-2-1
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Depth Matrix Redox Features Nature Remarks	•	tion: (Desc	cribe to the	depth nee	ded to do	cument			confirm	the absence of Indicators.)				
LOAM	•	Color		%	Color (moist)			Loc ²	 Texture	Remarks			
Diatomacoius Earth Diatoma			,			/		31-		· · · · · · · · · · · · · · · · · · ·				
Type: Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains. Coation: PL=Pore Lining, M=Matrix.														
Type: C=Concentration, D=Depletion, RM=Reduced Martix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators:														
Hydric Soil Indicators: Histosoi (A1)				DM-Dodu	and Mortis			Coatad	Cond Cr		Motrix			
Histosol (A1)	Type. C-Conce	illialion, D	-Depletion,	, KIVI-Keuu	ceu iviai ii	(, 03-00	vereu or	Coaled	Janu Gra	ansLocation. FE-Fore Entiting, M-	iviali ix.			
Histic Epipedon (A2)	Hydric Soil Inc	licators:								Indicators for Problematic Hydr	ic Soils: 3			
Histic Epipedon (A2) Stripped Matrix (58) Red Parent Material (TF2)	Histosol (A1)				Sandy I	Redox (S5)			2 cm Muck (A10)				
Black Histic (AS) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Thy Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Other	Histic Epipedo	on (A2)			Strippe	d Matrix (S	86)							
Hydrogen Sulface (A4) Loamy Cleyed Matrix (F2) Other (Explain in Remarks) Depleted Bow Dark Surface (A12) Redox Dark Surface (F7) Properties Below Dark Surface (A12) Redox Dark Surface (F7) Redox Depleted Dark Surface (F7) Redox Depressions (F8) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Black Histic (A	43)			Loamy	Mucky Mir	neral (F1) (except ML	RA 1)					
Depleted Below Dark Surface (A12) Depleted Matrix (F3) Redox Dark Surface (F6) Redox Dark Surface (F6) Redox Dark Surface (F6) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	Hydrogen Sul	fide (A4)			Loamy	Gleyed Ma	atrix (F2)							
Sandy Mucky Mineral (S1)	Depleted Belo	ow Dark Sur	face (A11)		Deplete	d Matrix (I	F3)			Other (Explain in Remarks)				
Sandy Gleyed Matrix (S4) Depirted Dark Surface (F1) Inydrology must be present, unless disturbed or problematic.	Thick Dark Su	urface (A12)			Redox I	Dark Surfa	ice (F6)			3 Indicators of hydrophytic vegetation	and wotland			
Restrictive Layer (if observed): Type: Depth (inches): Presents Prest-Heave Hummocks Presents	Sandy Mucky	Mineral (S1)		Deplete	d Dark Su	ırface (F7)			hydrology must be present,	and welland			
Type:	Sandy Gleyed	d Matrix (S4)	1		Redox	Depressio	ns (F8)			unless disturbed or problematic.				
Depth (inches): Remarks: This sample does not meet any hydric soil indicators; chroma 2 soils do not meet depleted matrix criteria; no redoximorphic features to meet redox dark surface. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) High Water Table (A2) Saturation (A3) Satt Crust (B11) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Cracks (B6) Surface Water Table (Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water All Ada (Applicators (minimum of two required) Water All Asian (AB) Water-Stained Leaves (B9) (MLRA 1, 2, 44, and 4B) Water All Asian (AB) Water-Stained Leaves (B9) (MLRA 1, 2, 44, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag. (C3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No X Wetland Hydrology Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	Restrictive	e Layer (i	f observe	d):										
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Mater Marks (B1) Mater Table (A2) Mater Marks (B1) Mate	Туре:											.,		
This sample does not meet any hydric soil indicators; chroma 2 soils do not meet depleted matrix criteria; no redoximorphic features to meet redox dark surface. ### Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Depth (inches	s):								Hydric Soil Present? Yes	No	X		
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Iron Deposits (B3) Iron Deposits (B5) Surface Soil Cracks (B6) Sutrace Soil Cracks (B6) Inudation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Sutration Present? Yes No X Depth (inches): Iron Deposits (Patients) Sutration Present? Yes No X Depth (inches): Iron Deposits (Patients) Surface Water Present? Yes No X Depth (inches): Iron Deposits (Patients) Surface Water Present? Yes No X Depth (inches): Iron Deposits (Patients) Surface Water Present? Yes No X Depth (inches): Iron Deposits (Patients) Surface Water Present? Yes No X Depth (inches): Iron Deposits (Patients) Iron Deposits (Patients) Wetland Hydrology Present? Yes No X Depth (inches): Iron Deposits (Patients) Iron Dep	Wetland Hydro	ology Indi	cators:											
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Saturation (A2) 1, 2, 4A and 4B) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Drift Deposits (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Image. (C9) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Sturface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Saturation Present? Yes No S	-			required; c	check all t	hat apply	')			Secondary Indicators (minimur	n of two requi	ired)		
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table (A2) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X Metland Hydrology Present? Yes No X	☐ Surface Wate	r (A1)						(B9) (exc	ept MLRA	Water-Stained Leaves (B9)	(MLRA 1, 2,			
Saturation (AS) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Includes capillary fringe) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Saturation Visible on Aerial Imag.(C9) Drift Dry-Season Water Table (C2) Saturation Visible on Aerial Imag.(C9) Saturation Visible on Aerial Imag.(C9) Saturation Visible on Aerial Imag.(C9) Shallow Aquitard (D3) FrAC-Neutral Test (D5) Frost-Heave Hummocks (D7) Presenter (B10) Saturation Visible on Aerial Imag.(C9) Shallow Aquitard (D3) FrAC-Neutral Test (D5) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No No N	High Water Ta	able (A2)			1,	2, 4A and	l 4B)				(= , =,			
Water Marks (B1)	☐ Saturation (A3	3)			∐ S	alt Crust (F	B11)			Drainage Patterns (B10)				
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Visible on Aerial Imag.(C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): 18 Wetland Hydrology Present? Yes No X Metland Hydrology Present? Yes No X No X Depth (inches): (includes capillary fringe)	☐ Water Marks	(B1)			Aquatic Invertebrates (B13)						2)			
□ 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 Stressed Plants (D1) (LRR A) □ Paised 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? Water Table Present? Yes No X Depth (inches): 20 Saturation Present? Yes No X Depth (inches): 18 Wetland Hydrology Present? Yes No X No X Lepth (inches): 18 Wetland Hydrology Present? Yes No X No X No X No X Depth (inches): No X N	Sediment Dep	osits (B2)								Saturation Visible on Aerial				
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A) Paised Ant	☐ Drift Deposits	(B3)			<u></u> □ 0	xidized Rh	nizosphere	s along Liv	ving Root	s (C3)				
□ Iron Deposits (B5) □ Recent Iron Reduction in Tilled Soils (C6) □ Sturtace Soil Cracks (B6) □ Stunted or Stressed Plants (D1) (LRR A) □ Paised Ant Mounds (D6) (LR														
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Stunted or Stressed Plants (D1) (LRR A) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Paised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	☐ Iron Deposits	(B5)												
□ 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 X Depth (inches):					Stunted or Stressed Plants (D1) (LRR A)				(LRR A)					
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X					Other (Explain in Remarks)									
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): 20 Saturation Present? Yes No X Depth (inches): 18 Wetland Hydrology Present? Yes No X (includes capillary fringe)	Sparsely Vege	etated Conc	ave Surface	(B8)						1105t Heave Hummooks (D7	,			
Water Table Present? Yes No X Depth (inches): 20 Saturation Present? Yes No X Depth (inches): 18 Wetland Hydrology Present? Yes No X (includes capillary fringe)	Field Observat	ions:												
Saturation Present? Yes No _X _ Depth (inches):18 Wetland Hydrology Present? Yes No _X _ (includes capillary fringe)	Surface Water I	Present?	Yes	No	X_	Depth ((inches):			_				
(includes capillary fringe)	Water Table Pre	esent?	Yes	No	X_	Depth ((inches):		20	_				
	Saturation Pres	ent?	Yes	No		Depth ((inches):		18	Wetland Hydrology Present?	Yes No	o_X_		
	(includes capilla	ary fringe)												
			am gauge, mo	onitoring well,	, aerial pho	tos, previo	ous inspect	tions), if a	vailable:					
	This sample does	not meet an	y hydrology ii	ndicators; free	e water/sat	uration too	deep afte	r heavy ra	infall in e	early part of growing season to meet hydrologic i	ndicators.			

	WETLAND DE	TERMINATI	ON DAT			ountains,	Valleys, a	nd Coas	t Regi	on		
Project/Site: F	FWLE / I-5			City/Coun	ty:	Bellevue		Sampling	Date:	3/11/20	14	
Applicant/Owner:	Sound Transit					State:	WA	Sampling	Point:	SP 27-	·1-1	
Investigators:	Lisa Danielski		Dangelei F	ox		Section, Tow	nship, Range	S 4	T 21 N	R 4	ŀΕ	
Landform (hillslope	e, terrace, etc.):	Depression		L	ocal Relief (co	ncave, conv	ex, none): C	oncave		Slope	∍ (%) _	
Subregion (LRR):	Α		Lat: 47.	337719	Long	-122.2938	353	Da	tum: N	AD83		
Soil Map Unit Nam	ne: Alderwood	gravelly sandy l	oam, 0 to 6	percent slope	es		NWI Classifica	ation:				
Are climatic / hydro	ologic conditions or	n the site typica	I for this tim	ne of year?	Yes	No X	(If No, exp	lain in Rem	narks)			
Are Vegetation _	, Soil, I	Hydrology	_, significar	ntly disturbed?	, μ	Are "Normal (Circumstances	" present?	Yes	X	No	
Are Vegetation _	, Soil, I	Hydrology	_, naturally	problematic?		(If needed,	explain any an	swers in R	emarks.)		
SUMMARY O	F FINDINGS -	Attach a sit	e map sl	howing sar	mpling poi	nt locatio	ns, transec	ts, impo	ortant '	featur	es, e	tc.
Hydrophytic Veg	etation Present?	Yes	No X									
Hydric Soil Prese		Yes	No X		ampled Area							
Wetland Hydrolo	gy Present?	Yes	No X	within a	Wetland?		Yes	No	Х			
	lot west of WL 27-1 eek prior to wetland		not meet a	all wetland indi	cators. Recor	d rainfall dur	ing previous m	nonth (6.5 i	nches in	Februa	ary and	over
VEGETATION	u _ Use scientifi	ic names of	olants.	Absolute	Dominant	Indicator						
Tree Stratum				<u>% Cover</u>	<u>Species</u>	<u>Status</u>	Dominance					
Shrub Stratum	(5)	50.5i \					Number of I That Are Of			:	0	(A)
Oemleria c	(1.100.3126)	<u>50 Ft</u>)		40	Y	FACU						
	erasiioiiiiis			40	=Total Cover		Total Number Species Acr				3	(B)
Herb Stratum	(Plot size:	· 5 E+ \			- Total Cover							_ (_)
Polystichur	•	<u> </u>		1	N	FACU	Percent of D That Are OB				0.0%	(A/B)
				1	=Total Cover							
Vine Stratum	· (Plot size	30 Ft)					Prevalence	Cover of:	KSneet		alv by	
Rubus arm		,		10	Υ	FACU			0	x 1 =	ply by: 0	
				10	=Total Cover		OBL species		0	x 2 =	0	
					_		FACW species		0	x 3 =	0	
							FACU species		126	x 4 =	504	
							UPL species		0	x 5 =	0	
							•		126	(A)	504	(B)
							Column Tota	als:	120	.(^)	- 304	(D)
							Preva	lence Index	$\epsilon = B/A =$:	4.00	
							Hydrophytic	Vegetatio	n Indica	itors:		
							Rapid T	est for Hyd	rophytic	Vegeta	ation	
							Domina	nce Test >	50%			
							Prevale	nce Index s	≤ 3.0			
								logical Ada		(Provi	de supr	portina
							data in I	Remarks or	on a se	eparate	sheet)	
							Problem	natic Hydro	phytic V	egetatio	n (Ex	(plain)
							Indicators of must be pre					
0/ 0 0 /:-	- 11t- Ot - 1						Hydropl Vegetation		Yes		No	Х
% Bare Ground in Remarks: (Include	n Herb Stratum photo numbers he	re or on a sena	rate sheet	<u> </u>					169			
,	s not meet dominar	•	,									

SOIL	Sampling Point:	SP 27-1-1

Pro	file	Descri	ption: (Des		depth nee	eded to docu			confirm t	the absence of Indicators.)			
	epth			Matrix	0/	0.1.7		Features		 _ ,			
(1	nche	:S)	Color	r (moist)		Color (mo	ist) %	Туре	Loc 2	Texture	Rema	rks	
0	to	6	10YR	2/2	100					FINE SANDY LOAM			
6	to	15	10YR	4 / 4	95	7.5YR 4/	6 5	С	M	FINE SANDY LOAM			
15	to	20	7.5YR	4/4	93	5YR 4/6	7	С	M	SANDY CLAY LOAM			
1Ty	pe: (C=Con	centration, [D=Depletion,	RM=Redu	ced Martix, C	S=Covered o	r Coated	Sand Grai	ins. ² Location: PL=Pore Lining	j, M=Matrix.		
Ну			ndicators:		r					Indicators for Problematic I	<u> Iydric Soils:</u>	3	
Ц	Hist	osol (A1	1)		Į	Sandy Red	ox (S5)			2 cm Muck (A10)			
Ц			don (A2)		Ĺ	Stripped Ma	. ,			Red Parent Material (TF2)			
Ц		ck Histic	` '		l	Loamy Mud	ky Mineral (F1)	(except M	LRA 1)	Very Shallow Dark Surface (T	F12)		
Ц	•	•	ulfide (A4)			Loamy Gley	ed Matrix (F2)			Other (Explain in Remarks)	,		
\vdash			elow Dark Sur	` '	Ĺ	Depleted M	` ,			_ ` ` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
\vdash			Surface (A12)	•	Ĺ		Surface (F6)			³ Indicators of hydrophytic vegeta	ation and wetlar	nd	
Ц	Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8)				hydrology must be present,								
	San	dy Gley	ed Matrix (S4	4)	l	Redox Dep	ressions (F8)			unless disturbed or problemation	<u>;</u>		
	Re	stricti	ve Layer (if observe	d):								
	Тур	e:								Urdeia Sail Deagant?	Vaa	Na	v
	Dep	th (inch	es):							Hydric Soil Present?	Yes	No _	X
We	tlar	-	rology Ind		required:	check all that	apply)			Secondary Indicators (mir	nimum of two	roquir	end)
	Sur	ace Wa	ter (A1)			Water	r-Stained Leave	es (B9) (exc	cept MLRA	Water-Stained Leaves		-	eu)
Н	_		Table (A2)				Crust (B11)			☐ 4A, and 4B)			
Н		uration (,				ic Invertebrates	(R13)		Drainage Patterns (B1	0)		
		er Mark	` '			= :	gen Sulfide Od	, ,		Dry-Season Water Tab	ole (C2)		
Н			eposits (B2)				zed Rhizospher	` '	ivina Roots	Saturation Visible on A	erial Imag.(C9))	
Н		Deposi					nce of Reduce	_	-	Geomorphic Position (D2)		
	_		Crust (B4)				nt Iron Reduction	` '		Shallow Aquitard (D3)			
		Deposi	is (B5) I Cracks (B6)			\equiv	ed or Stressed		, ,	FAC-Neutral Test (D5)			
Н					7)) (LIXIX / 1)	Paised Ant Mounds (D			
				rial Imagery (B cave Surface (U Other	(Explain in Re	marks)		Frost-Heave Hummock	(S (D7)		
<u> </u>			ations:	cave ourrace (50)								
			r Present?	Yes	N	o X [Depth (inches):						
			Present?	Yes			Depth (inches):			•			
		ation Pre		Yes	N	<u></u>	Depth (inches):			Wetland Hydrology Present?	Yes	_ No	_X_
			illary fringe)	100		. <u></u> .	· · · · · · · · · · · · · · · · · ·						
				eam gauge, mo	nitoring well	l, aerial photos,	previous inspe	ctions), if a	vailable:	•			
2000	orke												
	arks: s san		s not meet ar	ny hydrology ir	dicators.								

WETLAND DE Project/Site: FWLE / I-5	ETERMINATION DATA	A FORM - N		ountains, Federal Wa	•	nd Coast Sampling D	•	2014	
Applicant/Owner: Sound Transit			<u> </u>	State		. 0	Point: SP 2		
Investigators: Lisa Danielski	Brendan Ba	uahn			nship, Range			R 4 E	
Landform (hillslope, terrace, etc.):			ocal Relief (co	•				pe(%)	
Subregion (LRR): A	Lat: 47.3		`	: -122.2939	· · · · —	Datu	ım: NAD83	• • • –	
Soil Map Unit Name:					NWI Classifica		-		
Are climatic / hydrologic conditions o	on the site typical for this time	e of vear?	Yes	No X		lain in Rema			
Are Vegetation, Soil,		•			Circumstances			. No	
Are Vegetation X, Soil ,		-	•		explain any an				
SUMMARY OF FINDINGS -	Attach a site man sh	owing sar	nplina poi	•			,	ures. e	tc.
Hydrophytic Vegetation Present?	Yes X No	<u> </u>			,	,po.		,	
Hydric Soil Present?	Yes X No	Is the Sa	ampled Area						
Wetland Hydrology Present?	Yes X No	within a	Wetland?		Yes	X No			
Remarks: Wetland sample plot at edge of Weover 1.5 inches in the week prior to		ne criteria for	a wetland. Re	ecord rainfall	during previou	us month (6.	5 inches in I	February	and
VEGETATION Use scientif	fic names of plants.	Absolute % Cover	<u>Dominant</u>	Indicator		_			
Tree Stratum		% Cover	<u>Species</u>	<u>Status</u>	Dominance				
	50.54				Number of E That Are OE			1	(A)
Rubus spectabilis	e: <u>50 Ft</u>)	5	Υ	FAC					
			=Total Cover		Total Number Species Acre			2	(B)
Herb Stratum			Total Covol				-		_ ` ′
Vine Stratum	20.51				Percent of D That Are OB			50.0%	(A/B)
(Plot size	:: 30 Ft)	5	Y	FACU					
			=Total Cover		Prevalence			بريط رياسالال	
		-	Total Cover			Cover of:	0 x 1 :	Itiply by:	
					OBL species	·	0 x 2 :	-	
					FACW speci		5 x3:		
					FAC species		5 x 4 :		
					FACU speci		0 x5:		
					UPL species	'			(D)
					Column Tota	als:	10 (A)	35	(B)
					Preval	ence Index	= B/A=	3.50	
					Hydrophytic	Vegetation	Indicators	1	
					Rapid To	est for Hydro	ophytic Vege	etation	
					Dominal	nce Test > 5	0%		
					Prevaler	nce Index ≤	3.0		
						ogical Adap Remarks or o			porting
					X Problem	atic Hydropl	hytic Vegeta	ition (Ex	plain)
						of hydric soil esent, unless			
% Bare Ground in Herb Stratum					Hydroph Vegetation I	•	Yes X	No	
Remarks: (Include photo numbers he	ere or on a separate sheet.)								
Himalayan blackberry is acting as a	n aggressive invasive. Pres	ence of hydri	c soils and hy	drology indic	ate hydrophyti	c vegetation			

SOIL Sampling Point: SP 27-1-2

Depth	ption. (Des	Matrix	uepui i	iccuci	a to document		eatures	COMMINIC	ne absence of indicators.	
(inches)	Colo	r (moist)	%		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 to 13	10YR	3 / 1	100		None				Gravely Sandy Loam	
13 to 19	7.5YR	4 / 1	97		5YR 4/6	30	С	M	Gravely Sandy Loam	
¹Type: C=Cond	centration, I	D=Depletion,	, RM=Re	educed	Martix, CS=Co	vered or	Coated	Sand Grai	ns. 2Location: PL=Pore Lining, M	=Matrix.
Hydric Soil II Histosol (A1 Histic Epipe Black Histic Hydrogen S Depleted Be Thick Dark S Sandy Mucl Sandy Gley	ndicators: (A3) (A3) (bulfide (A4) (A1) (A2) (A3) (A3) (A3) (A4) (A4	rface (A11)) 1)			Sandy Redox (S5 Stripped Matrix (\$ Loamy Mucky Mil Loamy Gleyed Mi Depleted Matrix (Redox Dark Surfa Depleted Dark St Redox Depressio	5) 66) neral (F1) atrix (F2) F3) ace (F6) urface (F7)	(except M		Indicators for Problematic Hyd 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12 Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes	ric Soils: 3
This area meets HYDROLOG Wetland Hyd	Y		oleted bel	ow dark	s surface (A11).					
			s require	d; che	ck all that apply	')			Secondary Indicators (minimu	um of two required)
Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation \ Sparsely Ve	Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Ae egetated Con	rial Imagery (E cave Surface (Water-Stair 1, 2, 4A and Salt Crust (Aquatic Inve Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Expl	d 4B) B11) ertebrates ulfide Odo nizosphere f Reduced Reduction Stressed F	(B13) or (C1) es along Li l Iron (C4) or in Tilled (iving Roots Soils (C6)	Water-Stained Leaves (B9 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (Saturation Visible on Aeria	(MLRA 1, 2, C2) Il Imag.(C9)
Field Observa		Voo		No	V Donth	(inches):				
Water Table F		Yes Yes				(inches): (inches):		13"		
Saturation Pre		Yes				(inches):	_	5"	Wetland Hydrology Present?	Yes _X_ No
(includes capi	illary fringe)									
Describe Record Remarks: Sample plot has					rial photos, previo	ous inspec	etions), if a	vailable:		





Appendix E

Wetland and Stream Impacts

TABLE E-1Summary of Temporary Construction Impacts on Wetlands by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^a
SR 99 Alternative			<u> </u>
	Wetland 6-2	IV	0
	Wetland 6-3	IV	0
	Wetland 6-4	IV	0
	Wetland 11-1	III	0
	Wetland 12-1	II	<0.1
	Wetland 12-2	III	<0.1
	Wetland 17-1	III/NA	<0.1
S 216th Station Options			
S 216th West Station Option	No change in imp	acts	
S 216th East Station Option	No change in imp	acts	
Kent/Des Moines Station Options			
	Wetland 6-2	IV	+<0.1
Kent/Des Moines HC Campus Station Option	Wetland 6-3	IV	+<0.1
•	Wetland 6-4	IV	+<0.1
Kent/Des Moines HC from S	Wetland 6-2	IV	+ 0.1
216th West Station Option	Wetland 6-4	IV	+<0.1
Kent/Des Moines SR 99 Median Station Option	No change in imp	acts	
Kent/Des Moines SR 99 East Station Option	No change in imp	acts	
S 260th Station Options			
0.0001.W (0.01 0.01	Wetland 11-1	III	+<0.1
S 260th West Station Option	Wetland 12-1	II	+ 0.1
S 260th Station East Option	Wetland 12-1	11	+ 0.3
	Wetland 12-2	III	- <0.1
S 272nd Redondo Trench Station O	ption		
	Wetland 12-1	II	+ 0.2
	W-11140.0	III	-0.1
	Wetland 12-2	111	- <0.1

TABLE E-1Summary of Temporary Construction Impacts on Wetlands by FWLE Alternative and Option

	bacis on Wellands by						
Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^a				
Federal Way SR 99 Station Option							
	No change in imp	acts					
I-5 Alternative							
	Wetland 12-1	II	<0.1				
	Wetland 25-2	III/III	0.2				
	Wetland 25-2a	IV/NA	<0.1				
Kent/Des Moines Station Options	<u> </u>	1					
Kent/Des Moines At-Grade Station Option	No change in imp	acts					
Kent/Des Moines SR 99 East Station Option	No change in imp	acts					
Landfill Median Alignment Option							
	No change in imp	No change in impacts					
Federal Way City Center Station Op	otions						
Federal Way I-5 Station Option	No change in impacts						
Federal Way S 320th Park-and- Ride Station Option	No change in impacts						
SR 99 to I-5 Alternative							
	Wetland 12-1	II	<0.1				
	Wetland 25-2	III/III	0.2				
	Wetland 25-2a	IV/NA	<0.1				
S 216th Station Options	I						
S 216th West Station Option	No change in imp	acts					
S 216th East Station Option	No change in imp	acts					
Landfill Median Alignment Option							
	No change in imp	acts					
Federal Way City Center Station Op							
Federal Way I-5 Station Option	No change in imp						
Federal Way S 320th Park-and- Ride Station Option	No change in imp	acts					
I-5 to SR 99 Alternative							
	Wetland 11-1	III	0				
	Wetland 12-1	II	<0.1				
	Wetland 12-2	III	<0.1				
	Wetland 17-1	III/NA	<0.1				

TABLE E-1Summary of Temporary Construction Impacts on Wetlands by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^a		
S 260th Station Options					
C 260th West Station Option	Wetland 11-1	III	+<0.1		
S 260th West Station Option	Wetland 12-1	II	+ 0.1		
S 260th Station East Option	Wetland 12-1	II	+ 0.3		
S 272nd Redondo Trench Station C	ption				
	Wetland 12-1	II	+ 0.2		
	Wetland 17-1	III/NA	- <0.1		
Federal Way SR 99 Station Option					
	No change in impacts				

^a Totals for each alternative rounded to the nearest 0.1 acre.

TABLE E-2Summary of Temporary Construction Impacts on Wetland Buffers by FWLE Alternative and Option

, ,		ers by FWLE Alternative a				
Alternative	Wetland Name	Wetland Category	Wetland Buffer Area Affected (acres) ^a			
SR 99 Alternative						
	Wetland 11-1	III	0.1			
	Wetland 12-1	II	0.1			
	Wetland 12-2	Ш	0.1			
	Wetland 12-3	IV	<0.1			
	Wetland 13-1	IV	<0.1			
	Wetland 15-1	11/11	<0.1			
	Wetland 16-1	IV/III	0			
S 216th Station Options						
S 216th West Station Option	No change in impa	acts				
S 216th East Station Option	No change in impa	acts				
Kent/Des Moines Station Options						
Kent/Des Moines HC Campus Station Option	No change in impacts					
Kent/Des Moines HC from S 216th West Station Option	No change in impacts					
Kent/Des Moines SR 99 Median Station Option	No change in impa	acts				
Kent/Des Moines SR 99 East Station Option	No change in impa	acts				
S 260th Station Options						
S 260th West Station Option	No change in impa	acts				
	Wetland 12-1	II	+ 0.3			
S 260th Station East Option	Wetland 12-2	III	- 0.1			
3 200til Station East Option	Wetland 12-3	IV	- <0.1			
	Wetland 13-1	IV	- <0.1			
S 272nd Redondo Trench Station C	ption					
	Wetland 12-1	II	+ 0.1			
	Wetland 12-2	Ш	- 0.1			
	Wetland 12-3	IV	- <0.1			
	Wetland 13-1	IV	- <0.1			
	Wetland 16-1	IV/III	+<0.1			
Federal Way SR 99 Station Option						
	No change in impa	acts				

TABLE E-2Summary of Temporary Construction Impacts on Wetland Buffers by FWLE Alternative and Option

		CIS BY I WEE Alternative i				
Alternative	Wetland Name	Wetland Category	Wetland Buffer Area Affected (acres) ^a			
I-5 Alternative						
	Wetland 12-1	II	0.7			
	Wetland 20-2	III	0.3			
	Wetland 25-2	111/111	0.1			
	Wetland 27-1	111/111	0.2			
	Wetland 5-1	111/111	<0.1			
Kent/Des Moines Station Options						
Kent/Des Moines At-Grade Station Option	Wetland 20-2	III	- 0.1			
Kent/Des Moines SR 99 East Station Option	Wetland 20-2	III	- 0.3			
Landfill Median Alignment Option						
	Wetland 20-2	III	- 0.1			
Federal Way City Center Station Op	otions					
Federal Way I-5 Station Option	No change in impacts					
Federal Way S 320th Park-and- Ride Station Option	No change in impacts					
SR 99 to I-5 Alternative						
	Wetland 12-1	II	0.7			
	Wetland 25-2	111/111	0.1			
	Wetland 27-1	111/111	0.2			
S 216th Station Options						
S 216th West Station Option	No change in impa	acts				
S 216th East Station Option	No change in impa	acts				
Landfill Median Alignment Option						
	No change in impa	acts				
Federal Way City Center Station Op	otions					
Federal Way I-5 Station Option	No change in impa	acts				
Federal Way S 320th Park-and- Ride Station Option	No change in impa	acts				
I-5 to SR 99 Alternative						
	Wetland 11-1	III	0.1			
	Wetland 12-1	II	0.1			
	Wetland 12-2	III	0.1			
	Wetland 12-3	IV	<0.1			
	Wetland 13-1	IV	<0.1			

TABLE E-2Summary of Temporary Construction Impacts on Wetland Buffers by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Buffer Area Affected (acres) ^a
	Wetland 15-1	11/11	<0.1
	Wetland 16-1	IV/III	0
S 260th Station Options			
S 260th West Station Option	Wetland 11-1	III	- 0.1
	Wetland 12-1	П	+ 0.3
C 2004h Station Foot Ontion	Wetland 12-2	III	- 0.1
S 260th Station East Option	Wetland 12-3	IV	- <0.1
	Wetland 13-1	IV	- <0.1
S 272nd Redondo Trench Station	Option		
	Wetland 12-1	П	+ 0.1
	Wetland 12-2	III	- 0.1
	Wetland 12-3	IV	- <0.1
	Wetland 13-1	IV	- <0.1
	Wetland 16-1	IV/III	+<0.1
Federal Way SR 99 Station Option			
	No change in impa	acts	

^a Totals for each alternative rounded to the nearest 0.1 acre.

TABLE E-3Summary of Long-Term Direct Impacts on Wetlands by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^{a,b}
SR 99 Alternative	Trottaria Harric	Political and Gategory	Troniana Piroa Pineotea (aoi es)
	Wetland 6-2	IV	0
	Wetland 6-3	IV	0
	Wetland 6-4	IV	0
	Wetland 11-1	III	0
	Wetland 12-1	II	<0.1
	Wetland 16-1	IV/III	0
	Wetland 17-1	III/NA	<0.1
S 216th Station Options			
S 216th West Station Option	No change in imp	pacts	
S 216th East Station Option	No change in imp	pacts	
Kent/Des Moines Station Options			
Kent/Des Moines HC Campus	Wetland 6-2	IV	+ 0.2
Station Option	Wetland 6-4	IV	+<0.1
	Wetland 6-2	IV	+ 0.1
Kent/Des Moines HC from S 216th West Station Option	Wetland 6-3	IV	+<0.1
	Wetland 6-4	IV	+<0.1
Kent/Des Moines SR 99 Median Station Option	No change in imp	pacts	
Kent/Des Moines SR 99 East Station Option	No change in imp	pacts	
S 260th Station Options			
S 260th West Station Option	Wetland 11-1	Ш	+ 0.1
S 260th Station East Option	Wetland 12-1	II	+ 0.4
S 272nd Redondo Trench Station (Option		
	Wetland 12-1	II	+ 0.4
	Wetland 16-1	IV/III	+ 0.1
	Wetland 17-1	III/NA	- <0.1
Federal Way SR 99 Station Option			
	No change in imp	pacts	
I-5 Alternative			
	Wetland 12-1	II	<0.1
	Wetland 20-2	III	0.6
	Wetland 25-2	111/111	0.1
	Wetland 25-2a	IV/NA	<0.1
	Wetland 27-1	III/III	0.3

TABLE E-3Summary of Long-Term Direct Impacts on Wetlands by FWLE Alternative and Option

Summary of Long-Term Direct Impacts of	IT Wellands by T WEE	Alternative and Option		
Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^{a,b}	
	Wetland 30-3	111/111	0	
Kent/Des Moines Station Options				
Kent/Des Moines At-Grade Station Option	No change in impacts			
Kent/Des Moines SR 99 East Station Option	Wetland 20-2	III	- 0.6	
Landfill Median Alignment Option				
	No change in imp	acts		
Federal Way City Center Station Op	tions			
Federal Way I-5 Station Option	No change in imp	acts		
Federal Way S 320th Park-and- Ride Station Option	Wetland 30-3	111/111	+ 0.1	
SR 99 to I-5 Alternative				
	Wetland 12-1	II	<0.1	
	Wetland 20-2	Ш	0	
	Wetland 25-2	111/111	0.1	
	Wetland 25-2a	IV/NA	<0.1	
	Wetland 27-1	III/III	0.3	
	Wetland 30-3	III/III	0	
S 216th Station Options				
S 216th West Station Option	No change in impacts			
S 216th East Station Option	No change in imp	No change in impacts		
Landfill Median Alignment Option				
	No change in impacts			
Federal Way City Center Station Op	otions			
Federal Way I-5 Station Option	No change in impacts			
Federal Way S 320th Park-and-	Wetland 20-2	III	+ 0.6	
Ride Station Option	Wetland 30-3	III/III	+ 0.1	
I-5 to SR 99 Alternative				
	Wetland 11-1	III	0	
	Wetland 12-1	II	<0.1	
	Wetland 16-1	IV/III	0	
	Wetland 17-1	III/NA	<0.1	
S 260th Station Options				
S 260th West Station Option	Wetland 11-1	III	+ 0.1	
S 260th Station East Option	Wetland 12-1	II	+ 0.4	

TABLE E-3 Summary of Long-Term Direct Impacts on Wetlands by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Area Affected (acres) ^{a,b}
S 272nd Redondo Trench Station Option			
	Wetland 12-1	II	+ 0.4
	Wetland 16-1	IV/III	+ 0.1
	Wetland 17-1	III/NA	- <0.1
Federal Way SR 99 Station Option			
	No change in impacts		

 ^a Totals for each alternative rounded to the nearest 0.1 acre.
 ^b Long-term footprints would bisect Wetlands 16-1, 20-2, and 27-1. Because of the small size of these wetlands (under one acre) and likely substantial degradation of wetland functions, the entirety of these wetlands were included in impact calculations.

TABLE E-4Summary of Long-Term Direct Impacts on Wetland Buffers by FWLE Alternative and Option

Altamatica	Western d Name	Wedlered Ceterren	Wetland Buffer Area Affected	
Alternative	Wetland Name	Wetland Category	(acres) ^a	
SR 99 Alternative				
	Wetland 11-1	III	0.1	
	Wetland 12-1	II	0.2	
	Wetland 12-2	III	<0.1	
	Wetland 12-3	IV	<0.1	
	Wetland 6-2	IV	0	
	Wetland 6-3	IV	0	
	Wetland 6-4	IV	0	
	Wetland 15-1	11/11	0	
	Wetland 16-1	IV/III	0	
S 216th Station Options				
S 216th West Station Option	No change in impacts			
S 216th East Station Option	No change in imp	pacts		
Kent/Des Moines Station Options				
	Wetland 6-2	IV	+<0.1	
Kent/Des Moines HC Campus Station Option	Wetland 6-3	IV	+<0.1	
	Wetland 6-4	IV	+ 0.1	
	Wetland 6-2	IV	+ 0.1	
Kent/Des Moines HC from S 216th West Station Option	Wetland 6-3	IV	+<0.1	
•	Wetland 6-4	IV	+ 0.1	
Kent/Des Moines SR 99 Median Station Option	No change in impacts			
Kent/Des Moines SR 99 East Station Option	No change in impacts			
S 260th Station Options				
S 260th West Station Option	Wetland 11-1	III	+ 0.2	
	Wetland 12-1	II	+ 0.2	
S 260th Station East Option	Wetland 12-2	III	- <0.1	
	Wetland 12-3	IV	- <0.1	
S 272nd Redondo Trench Station Option				
	Wetland 12-1	П	+ 0.3	
	Wetland 12-2	III	- <0.1	
	Wetland 12-3	IV	- <0.1	
	Wetland 15-1	II/II	+ 0.1	
	Wetland 16-1	IV/III	+ 0.1	
	I	l .	l	

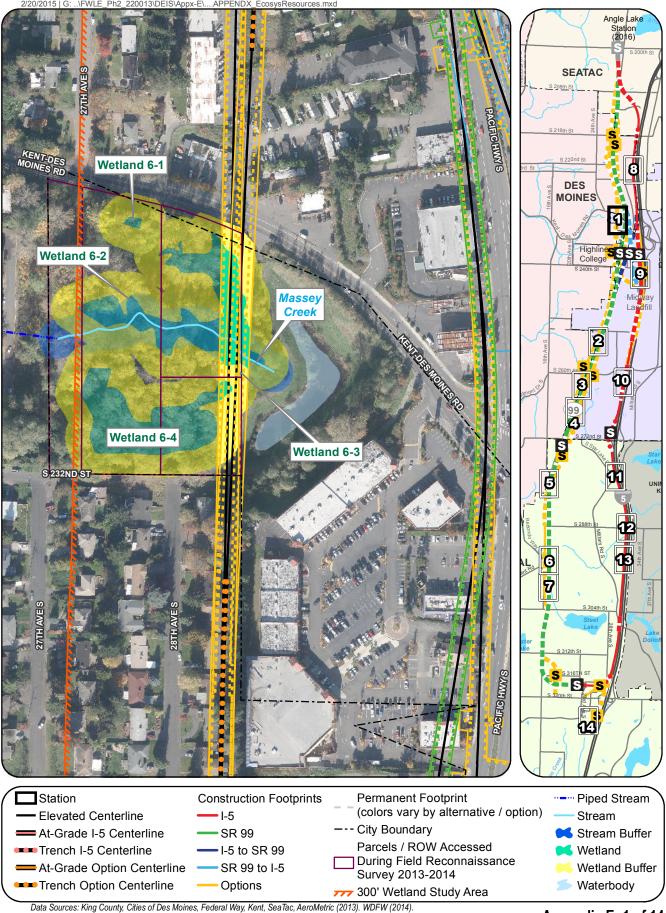
TABLE E-4Summary of Long-Term Direct Impacts on Wetland Buffers by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Buffer Area Affected (acres) ^a	
Federal Way SR 99 Station Option	Federal Way SR 99 Station Option			
	No change in imp	acts		
I-5 Alternative				
	Wetland 12-1	II	0.5	
	Wetland 20-2	III	0.2	
	Wetland 25-2	III/III	<0.1	
	Wetland 27-1	111/111	0.3	
	Wetland 30-3	111/111	0	
Kent/Des Moines Station Options				
Kent/Des Moines At-Grade Station Option	Wetland 20-2	III	+ 1.0	
Kent/Des Moines SR 99 East Station Option	Wetland 20-2	III	- 0.2	
Landfill Median Alignment Option				
	No change in impacts			
Federal Way City Center Station Option	s			
Federal Way I-5 Station Option	No change in imp	pacts		
Federal Way S 320th Park-and-Ride Station Option	Wetland 30-3	111/111	+ 0.2	
SR 99 to I-5 Alternative				
	Wetland 12-1	II	0.5	
	Wetland 20-2	III	0	
	Wetland 25-2	111/111	<0.1	
	Wetland 27-1	111/111	0.3	
	Wetland 30-3	111/111	0	
S 216th Station Options				
S 216th West Station Option	No change in impacts			
S 216th East Station Option	No change in impacts			
Landfill Median Alignment Option				
	No change in impacts			
Federal Way City Center Station Options				
Federal Way I-5 Station Option	No change in impacts			
Federal Way S 320th Park-and-Ride	Wetland 20-2	III	+ 0.2	
Station Option	Wetland 30-3	III/III	+ 0.2	

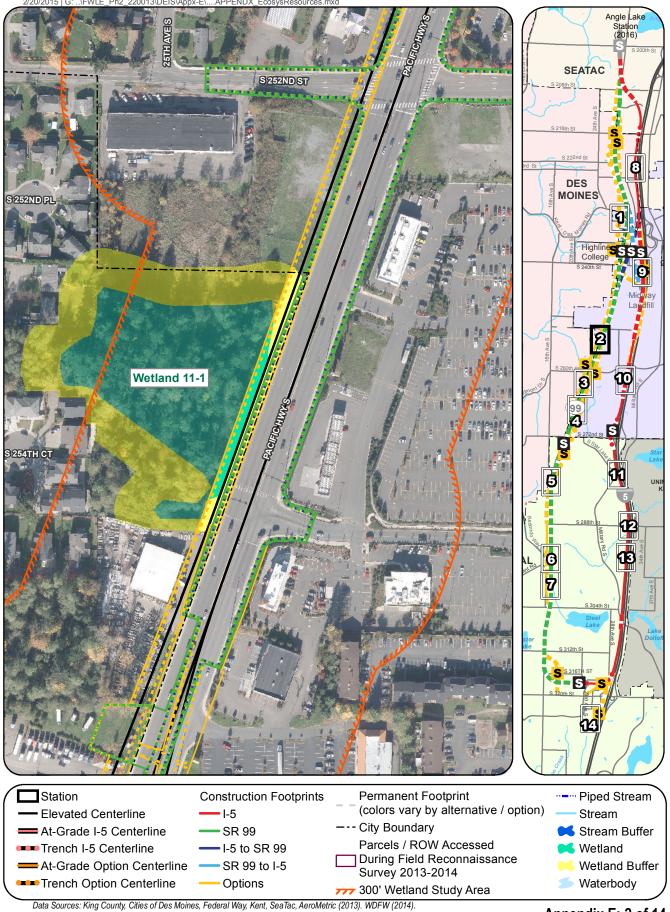
TABLE E-4Summary of Long-Term Direct Impacts on Wetland Buffers by FWLE Alternative and Option

Alternative	Wetland Name	Wetland Category	Wetland Buffer Area Affected (acres) ^a
I-5 to SR 99 Alternative			
	Wetland 11-1	Ш	0.1
	Wetland 12-1	II	0.2
	Wetland 12-2	III	<0.1
	Wetland 12-3	IV	<0.1
	Wetland 15-1	11/11	0
	Wetland 16-1	IV/III	0
S 260th Station Options			
S 260th West Station Option	Wetland 11-1	III	+ 0.2
	Wetland 12-1	II	+ 0.2
S 260th Station East Option	Wetland 12-2	Ш	- <0.1
	Wetland 12-3	IV	- <0.1
S 272nd Redondo Trench Station Option			
	Wetland 12-1	II	+ 0.3
	Wetland 12-2	III	- <0.1
	Wetland 12-3	IV	-<0.1
	Wetland 15-1	II/II	+ 0.1
	Wetland 16-1	IV/III	+ 0.1
Federal Way SR 99 Station Option			
	No change in impacts		

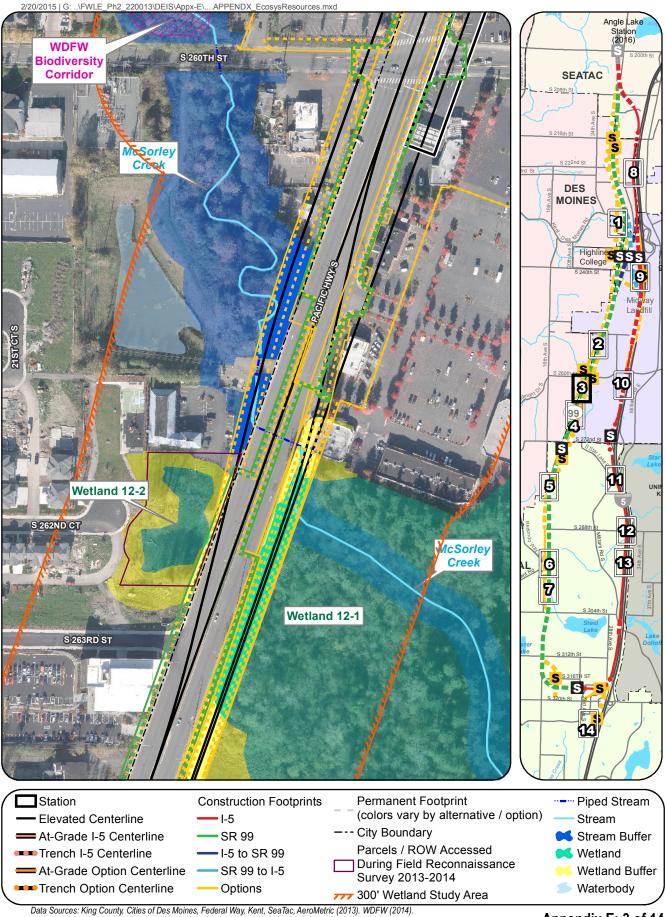
^a Totals for each alternative rounded to the nearest 0.1 acre.

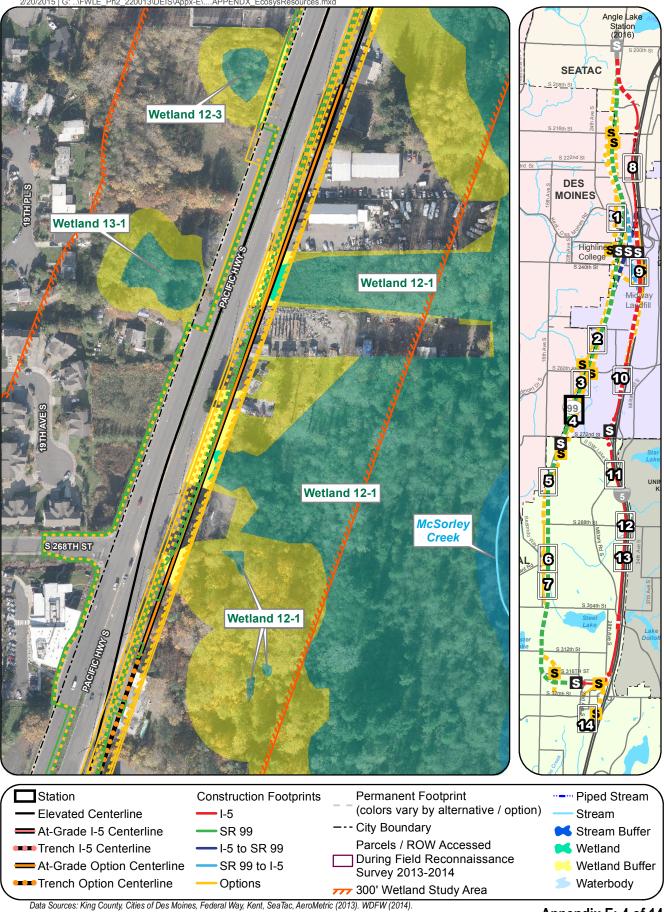


Appendix E: 1 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension

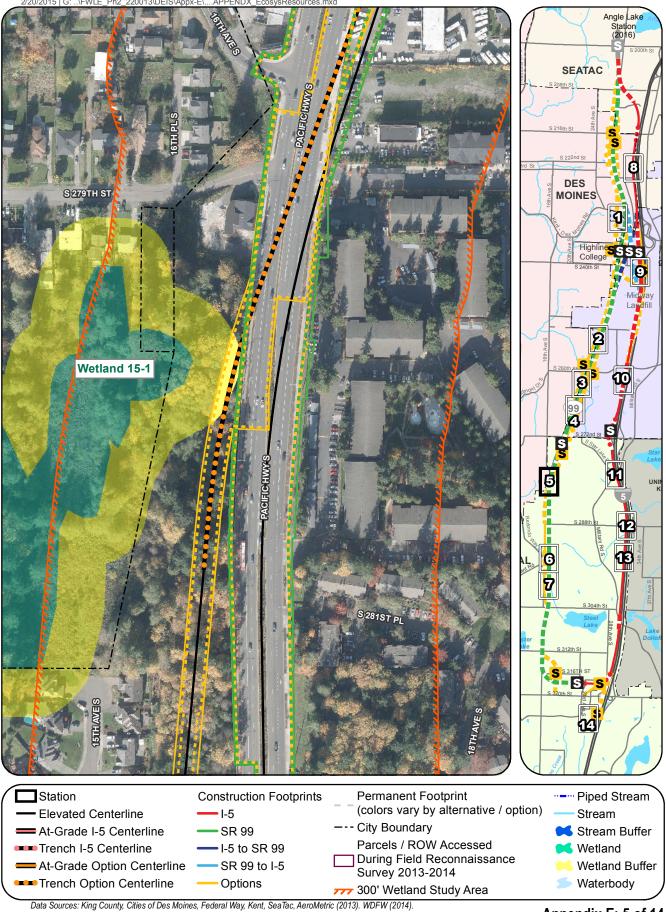


Appendix E: 2 of 14 **Ecosystems Resources** Wetland and Stream Impacts within the Study Area Federal Way Link Extension

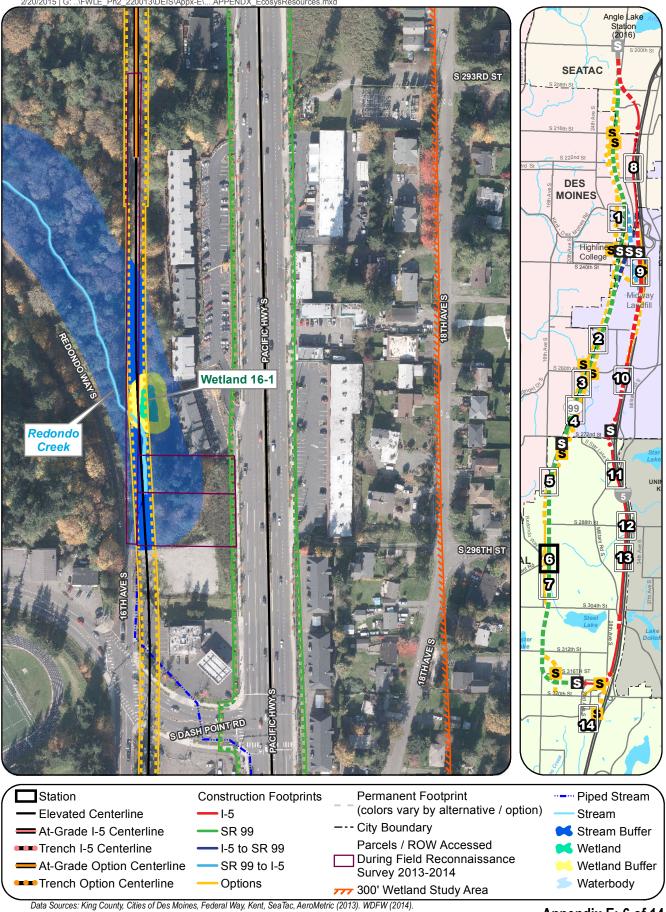




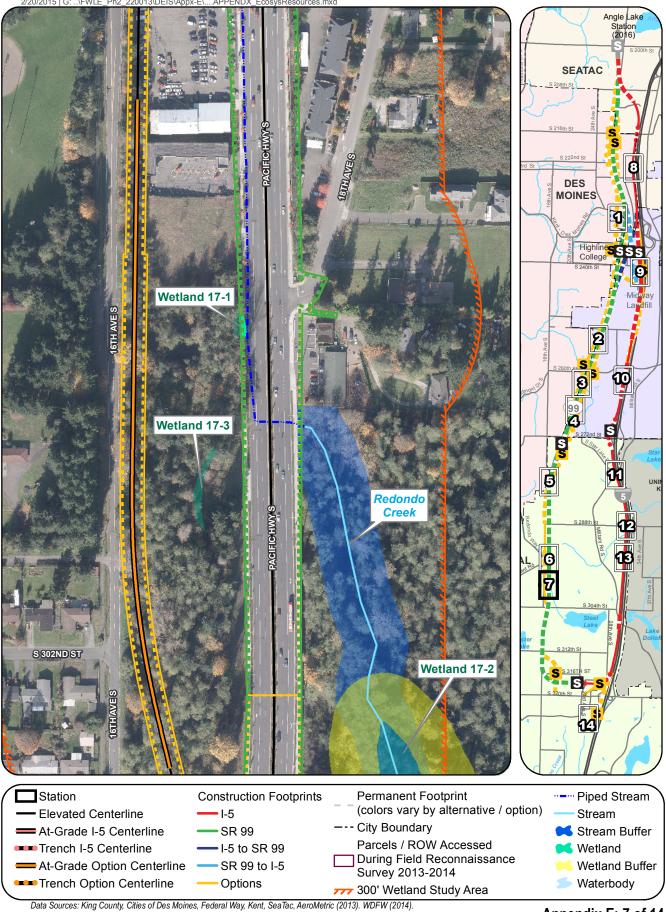
Appendix E: 4 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension



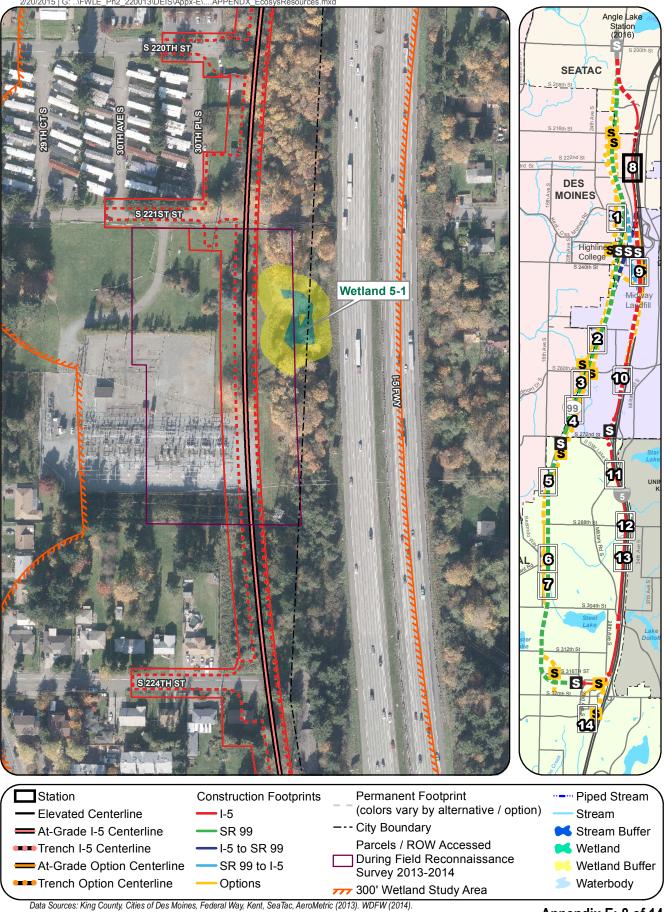
Appendix E: 5 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension



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Ecosystems Resources
Wetland and Stream Impacts within the Study Area
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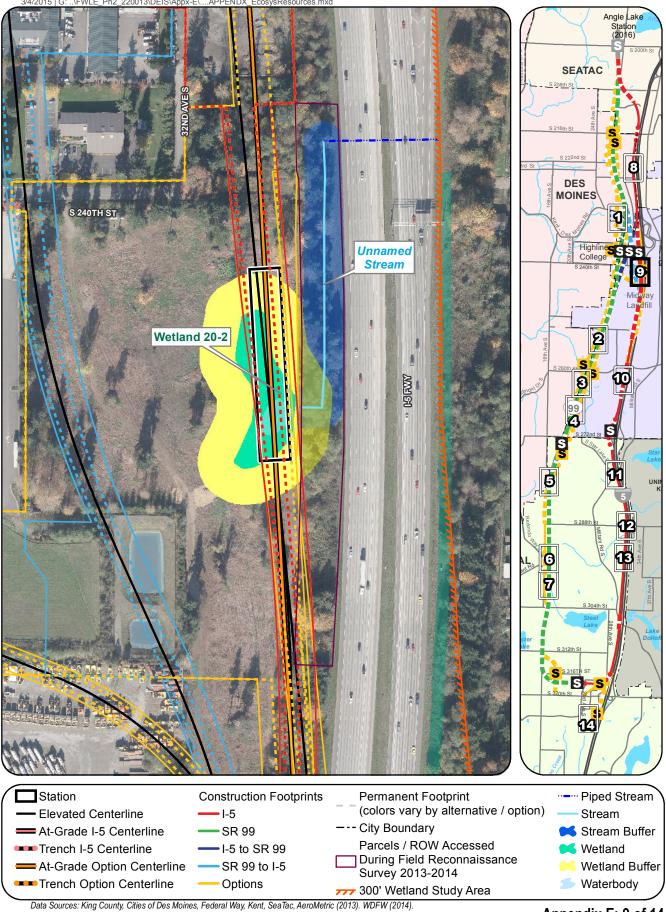
Appendix E: 7 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension



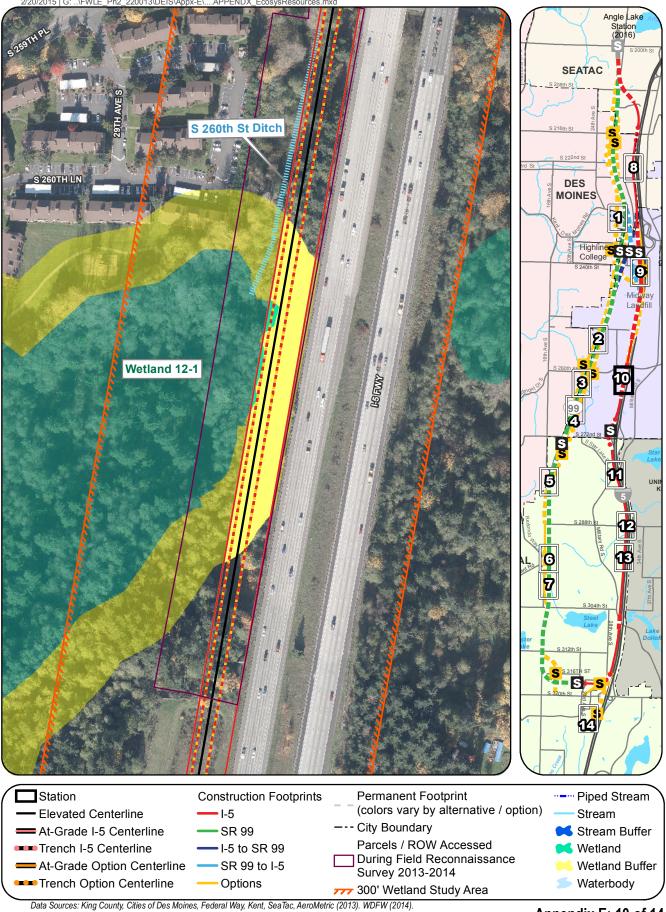
Appendix E: 8 of 14

Ecosystems Resources
Wetland and Stream Impacts within the Study Area

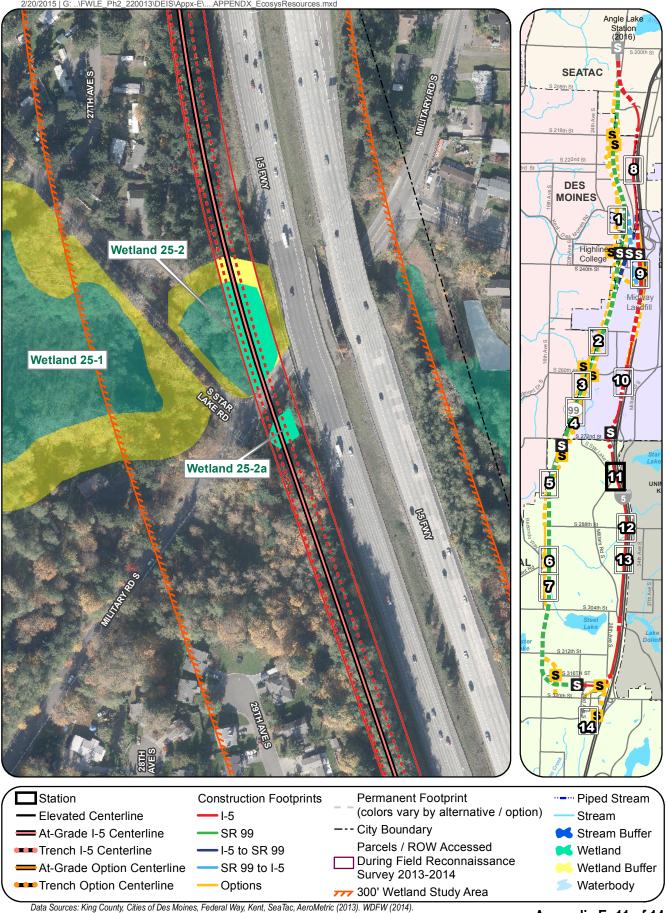
Federal Way Link Extension



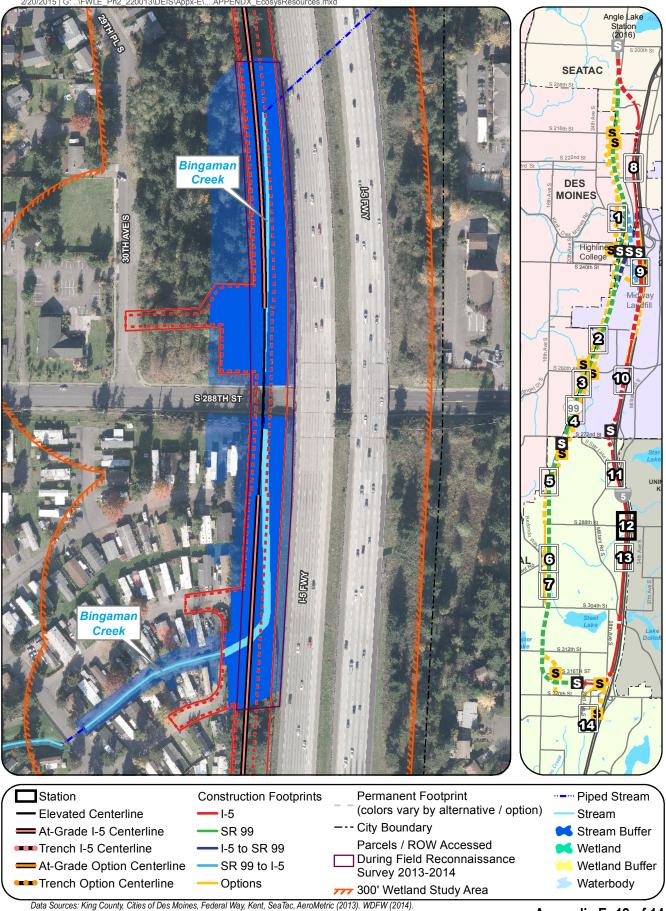
Appendix E: 9 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension

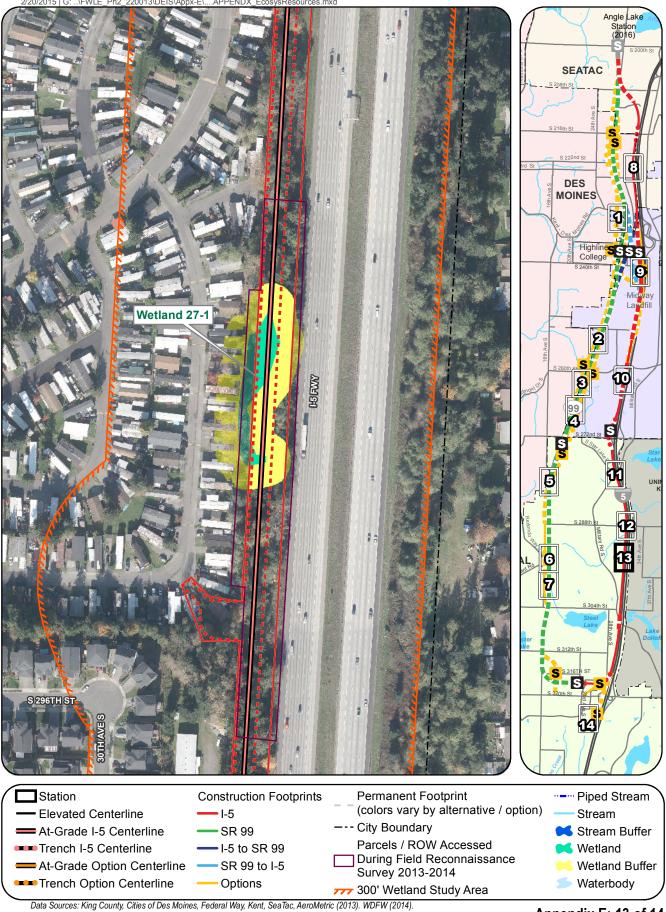


Appendix E: 10 of 14
Ecosystems Resources
Wetland and Stream Impacts within the Study Area
Federal Way Link Extension

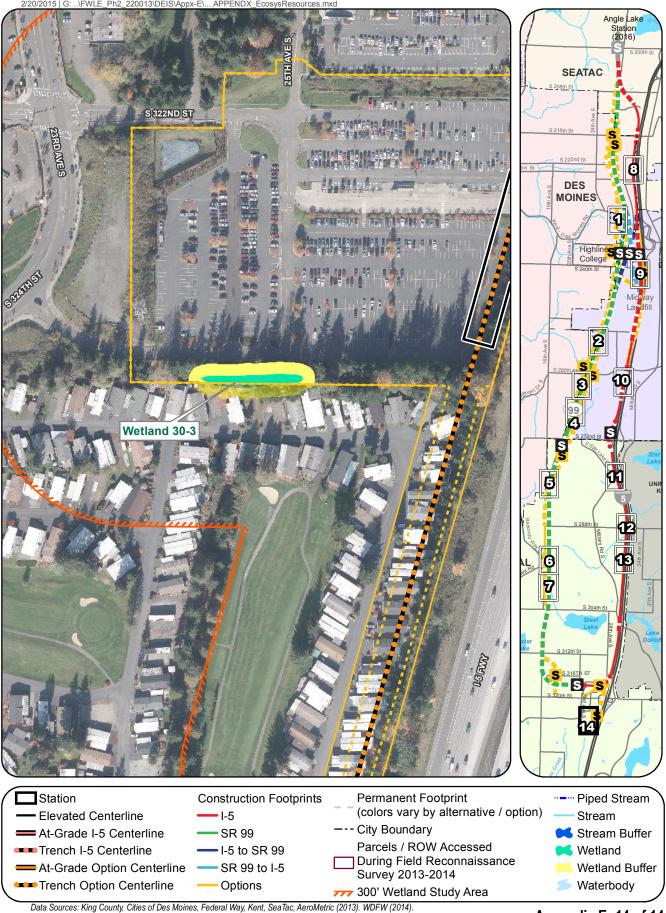


Appendix E: 11 of 14 **Ecosystems Resources** Wetland and Stream Impacts within the Study Area Federal Way Link Extension

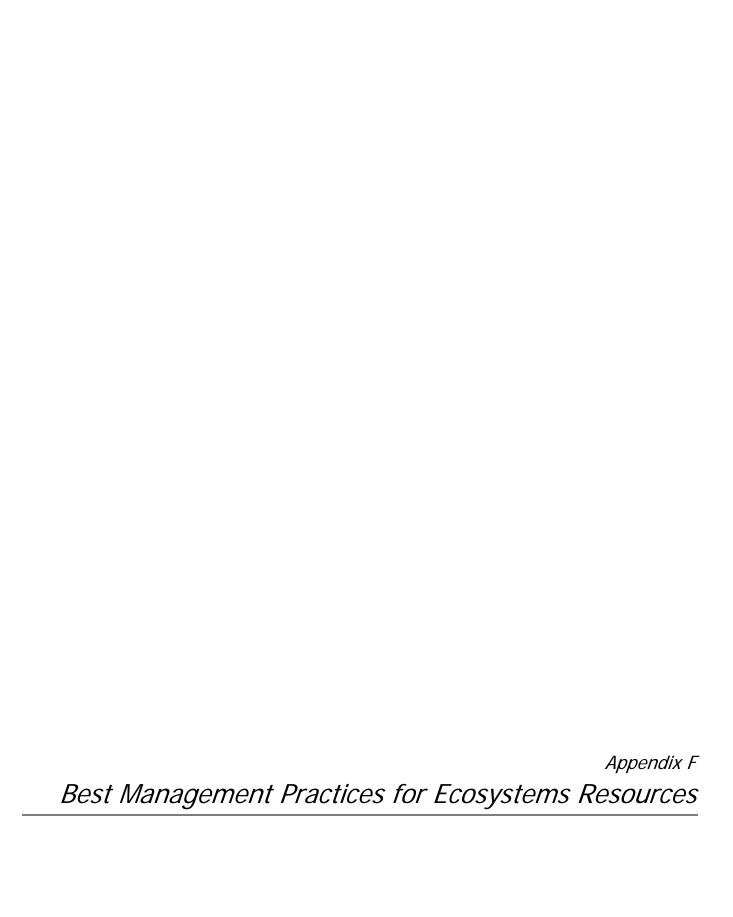




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Ecosystems Resources
Wetland and Stream Impacts within the Study Area
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Appendix E: 14 of 14
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Best Management Practices for Ecosystems Resources

The following list of measures is a compilation of best management practices (BMPs) that can be used to avoid and minimize short- and long-term impacts on ecosystem resources during design, construction, and post-construction activities for the Federal Way Link Extension (FWLE). These BMPs are either required by federal, state, or local agencies to obtain permits necessary for the project, or they may be required in order to comply with typical permit conditions. They are based on Sound Transit's knowledge of permit requirements and experience with conducting environmental compliance and permitting for numerous other projects in the Puget Sound Region.

F.1 Design and Operation BMPs

F.1.1 Wetlands and Streams

Sound Transit would avoid and minimize adverse long-term effects of the FWLE on wetlands through design to the greatest extent practicable. Design aspects that would be incorporated into the project include elevated guideways, siting support columns and other elevated guideway features to span and avoid direct impacts on wetlands, and using retaining walls to reduce the footprint of at-grade guideway sections, thus reducing the extent of fill in wetlands.

Sound Transit would also design permanent stormwater treatment facilities and flow-control measures to minimize impacts on stream water quality and flow. The proposed stormwater management for the FWLE follows the Sound Transit *Link Design Criteria Manual* (Sound Transit, 2012), which requires stormwater design for Sound Transit projects to conform to the requirements of the local jurisdictions.

Mitigation for unavoidable impacts on streams and stream buffers that are protected under federal, state, and local regulations would also be provided in accordance with requirements. With the exception of Bingaman Creek, the project design would avoid impacts on existing streams, but some unavoidable impacts on stream riparian areas would be mitigated by improving stream habitat and riparian function by replanting affected areas with native vegetation.

F.1.2 Upland Vegetation and Wildlife Resources

Project effects on vegetation, wildlife, and wildlife habitat would be minimized to the greatest extent practicable by minimizing the footprint of light rail alignments through large blocks of forests and connected riparian corridors.

F.2 Construction-Related BMPs

Sound Transit would implement construction BMPs that would apply to all work in or around valued habitats and sensitive areas. Prior to construction, Sound Transit would mark work limits with

perimeter fencing and signage to prevent unintended impacts on ecosystems designated for protection (for example, riparian vegetation, wetlands, woodlands and other sensitive sites).

Sound Transit would implement a Stormwater Pollution Prevention Plan (SWPPP) and develop a temporary erosion and sediment control plan to assure that turbidity plumes and pollutants from equipment and runoff would not enter streams and wetlands. If discharge of treated construction or process water to a sanitary sewer were proposed, approval would be obtained from the King County Industrial Waste Division and the local jurisdiction. For construction within and over streams or other water bodies, a Hydraulic Project Approval would be obtained from the Washington Department of Fish and Wildlife before work began. Through compliance with these requirements, an approved construction SWPPP would be developed and implemented for the project. The SWPPP would serve as the overall construction stormwater mitigation plan by describing overall procedural and structural pollution prevention and flow control BMPs, including location, size, maintenance requirements and monitoring. In addition, the SWPPP would include each of the following plans:

- Temporary Erosion and Sediment Control Plan This plan would outline the design and construction specifications for BMPs to be used to identify, reduce, eliminate or prevent sediment and erosion problems.
- Spill Prevention, Control, and Countermeasures Plan This plan would outline requirements for and implementation of spill prevention, inspection protocols, equipment, material containment measures, and spill response procedures.
- Concrete Containment and Disposal Plan This plan would outline the management, containment, and disposal of concrete debris, slurry, and dust, and would discuss BMPs that would be used to reduce high pH.
- Dewatering Plan This plan would outline procedures for pumping groundwater away from the construction area and for storing (as necessary), testing, treating (as necessary), and discharging or disposing of the dewatering water.

Seasonal work restrictions (i.e., work windows) would apply to work conducted below the ordinary high water mark of certain fish-bearing streams and for certain clearing activities during the migratory bird nesting season. If any culverts needed to be installed or extended on fish-bearing or potentially fish-bearing streams, design and construction methods would comply with Washington Administrative Code (WAC) 220-110-070 regarding fish passage. Any stream beds and stream banks affected by construction would be restored after in-water work.

Potential BMPs include the following:

- Minimizing the amount of cleared area at a construction site
- Washing truck tires at construction entrances, as necessary
- Constructing silt fences downslope from exposed soils
- Protecting catch basins from sediment

- Containing and controlling concrete and hazardous materials onsite
- Installing temporary ditches to route runoff around or through construction sites, with periodic straw bales or rock check dams to slow and settle runoff
- Using straw wattles to reduce the length of unbroken slopes and minimize runoff concentration
- Using temporary erosion-control blankets or mulch on exposed steep slopes to minimize erosion before vegetation is established
- Constructing temporary sedimentation ponds to remove solids from concentrated runoff, and dewatering them before they are discharged
- Conducting vehicle fueling and maintenance activities no closer than 100 feet from a water body or ditch

Examples of avoidance and minimization measures that would be implemented before and during project construction include minimizing vegetation clearing, restoring temporarily affected areas, preparing and implementing a revegetation plan, and preventing injury to migratory birds. In accordance with the Migratory Bird Treaty Act, Sound Transit would consult with the U.S. Fish and Wildlife Service on measures to conserve migratory birds and their nests. Sound Transit would also implement a weed control plan to minimize the risk of introducing and spreading noxious and invasive species, including restoring temporarily disturbed areas immediately following construction.

F.3 References

Sound Transit. 2012. Link Design Criteria Manual. Revision 1. February.

